FORM P 10-1594 REC 11-1(	6-1998 ET LIS DEPARTMENT DE COMME A
1-12-28 <b>TF</b>	Patent and Trademark
Tab settings ⇒ ⇒ ▼ 1009	18640
	Please record the attached original documents or copy thereof
1. Name of conveying party(jes).  UCAR CARBON TECHNOLUCY (OPP.  39 Old Ridgebury Road  Danbury, CT 06817	2. Name and address of receiving party(ies):  Name: The Chase Manhattan Bank  Of Collateral Ugent  Internal Address:
_	Street Address: 270 PARK AVENUE
☐ Individual(s) ☐ Association ☐ General Partnership ☐ Limited Partnership ☐ Corporation-State	
OtherAdditional name(s) of conveying party(ies) attached? The I No	☐ Individual(s) citizenship
3. Nature of conveyance:	Corporation-State 20
☐ Assignment       ☐ Merger         ☐ XX Security Agreement       ☐ Change of Name         ☐ Other       ☐ Other	If assignee is not domiciled in the United States, a domestic representative designation is attached:  (Designations must be a separate document from Assignment)
Execution Date: Nov. 10, 1998	Additional name(s) & address(es) attached? ☐ Yes ☐ No
See attached sched  Additional numbers afta  5. Name and address of party to whom correspondence	ached? 🗗¥es 🔲 No
concerning document should be mailed:  Name: Anne H. Lewallen	registrations involved:
Internal Address: Cravath, Swaine & Moore	7. Total fee (37 CFR 3.41):s 790 =
Worldwide Plaza	☐ Enclosed
44th Floor	Authorized to be charged to de charged to de Authorized to be charged to
Street Address: 825 Eighth Avenue	8. Deposit account number:
City: New York State: NY ZIP: 10017	(Attach duplicate copy of this page if paging by deposit account
DO NOT USE	THIS SPACE
of the original document.	mation is true and correct and any attached copy is a true copy
Anne H. Lewallen // // //	$H_{1}$ $H_{1}$ $H_{2}$ $H_{3}$ $H_{4}$ $H_{3}$ $H_{4}$ $H_{4$
Anne H. Lewallen  Name of Person Signing	H. Hull 11/10/98 5 555 Signature 5 Case

otal number प्राप्त सम्बद्धाः स्थापना स्थापना स्थापना स्थापना प्राप्त स्थापना स्थापन स्थापन स्थापन स्थापना स्थापना स्थापना स्थापना स्

Trademark List				Page: 48
Case Number Status		Registration	wal	First Use
		Manuper/Pale		Date
MR 1197 Registered			04-Nov-2007	
Owner: Union Carbide Corporation		04-Nov-1987		
Agent: VAYA Vayanos Kostopoulos				
Řemarks:	pln. Replaces Reg. l sed due to non-rene ogh in 1977.	No. 38,614 .wal by		
Ass 11/	signment/change/na 2/89.	ıme recorded		
Me: 1/17	rger & ch/name rec 2/96.	orded		
	ired with Ralston.			
anodes, connecting pins for electrodes and				
anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating,				
and hardening metal (class 7), and carbons for electric purposes and all other goods in class 9				
MR 1198 Registered			)1-Oct-2006	
	4			
Goods: Seals, gaskets, gasket sheet materials				
and polytetrafluoroethylene for use in scaling				
gases or fluids in piping, flanges, valves and pumps, in International Class 17.		, ,	S	
	Number Status  Registere  n  llos  Registere  Remarks:  Remarks:	Number Status Number/Filing  Registered  Registered  Remarks: Appln. Replaces Reg. lapsed due to non-rene Balogh in 1977. Assignment/change/ne 11/2/89.  Merger & ch/name rec 11/12/96. Shared with Ralston. atteries, electrodes, relectrodes and for cutting, welding, plating, heating 7), and carbons for her goods in class 9.  Registered 74/591040 27-Oct-1994 (materials ites of glass fiber for use in sealing inges, valves and ss 17.	Mumber Status Number/Filing Number/Date  Registered Registered 87155  n 04-Nov-1987  llos  Remarks: Appln. Replaces Reg. No. 38,614 lapsed due to non-renewal by Balogh in 1977.  Assignment/change/name recorded 11/2/89.  Merger & ch/name recorded 1/12/96.  Shared with Ralston.  atteries, electrodes, relectrodes and for cutting, welding, s. plating, heating 7), and carbons for her goods in class 9.  Registered 74/591040 2004989  Registered 77-Oct-1994 01-Oct-1996  materials ites of glass fiber for use in sealing unges, valves and ss 17.	Mumber Status Number/Filing Number/Date Date  Registered 87155 04-Nov-2007  Registered 87155 04-Nov-1987  Illos  Remarks: Appln. Replaces Reg. No. 38,614  lapsed due to non-renewal by Balogh in 1977.  Assignment/change/name recorded 11/2/89.  Merger & ch/name recorded 11/12/96.  Shared with Ralston.  autteries, electrodes, relectrodes and for cutting, welding, s, plating, heating 7), and carbons for her goods in class 9.  Registered 74/591040 2004989 01-Oct-2006  Remarks: 27-Oct-1994 01-Oct-1996  materials materials materials for use in scaling for use in scaling linges, valves and

Thursday, November 05, 1998							
		Trademark List	ist				Page: 49
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal e Date	First Use Date
UNICARBON	MR	1199	Registered	815496443	815496443 29-Nov-2004	29-Nov-2004	
Comitry: Brazii	Owner: Union Carbide Corporation	rporation		27-Apr-1990	29-Nov-1994		
	Agent: DANI Daniel & Cia	<u>C</u> :					

Agent: DANI Daniel & Cia

Classes: 1

Remarks: Merger & ch/name recorded.

Goods: Produtos industrializados a base de carbono e

grafita para fins industriais, nucleares ou qualquer outro. (Industrialized products carbon and graphite base for industrial and nuclear purposes and any other.)

Inursday, November 05, 1998		Trademark List	ist				Page: 1
Trademark Name	Division  Attorney(s)	Caso Nimbon	Ctatus	Application	Registration Number/Date	Renewal Date	First Use
UCAR	MR	1099	Renewing		1301614	26-Jul-1998	
Country: Argentina	Owner: Union Carbide Corporation	rporation			26-Jul-1988		
	Agent: MARV Marval, O'Farrell & Mairal	)'Farrell & Mairal					
	Classes: 1  Goods: Graphite and carb	on for general industr	īks:	Remarks: Undertaking given by UCC to Messrs. Alexander Gross [Berlin] [ECCAR).  Assignment/change of name recorded 6/2/94.  Merger/change of name recorded 12/28/95.	y UCC to bross [Berlin] of name me recorded		
	Goods: Graphite and carbon for general industrial uses	oon for general industr	ial uses.				
UCAR	MR	1100	Renewing		1301621	26-Jul-1998	
Country: Argentina	Owner: Union Carbide Corporation	rporation			26-Jul-1988		

TRADEMARK REEL: 1826 FRAME: 0004

Goods: Electrodes and anodes and connecting pins for electrodes and anodes, electric dry cells and batteries and storage batteries.

Merger/Change of name recorded 12/28/95.

Assignment/Change of name recorded 6/2/94.

Classes: 9

Remarks: Undertaking given by UCC to

Messrs. Alexander Gross [Berlin] (ECCAR).

Agent: MARV Marval, O'Farrell & Mairal

Remarks: Associated with 187,860 and 214,416. Assignment & Ch/Name recorded 1/22/93. Merger & Ch/Name recorded Jan.15, 1997.

Goods: Electrodes and anodes and connecting pins for

electrodes and anodes.

Thursday, November 05, 1998		3     -  -				The same of the sa	
		Trademark List	ist				Page: 3
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Renev	wal	First Use Date
UCAR	MR	1104	Registered	ă	60703	30-Nov-2007	
Country: Austria	Owner: Union Carbide Corporation	rporation			30-Nov-1997		

Agent: PUCH Patentanwalte Puchberger

Classes: 4 22B 23

8/21/9

Merger/change of name recorded 8/21/95.

Remarks: Assignment/change of name

recorded 4/28/92.

Shared with Ralston.

Goods: Class 4: Flashlights, electric flashlights, lighting and heating apparatus, electric lamps, electric lamps, electric lamp bulbs, electric torches and parts thereof, carbons for electric lighting purposes. Class 22B, physical, chemical and electro-technical apparatus, flashlight appartus, flashlight bulbs, industrial-chemical installations, industrial-chemical installations in the form of scrubbing, adsorption, fractionating and stripping, towers and columns and parts thereof. Pipses, tubes and valves all made of carbon and graphite and being parts of industrial-chemical installations, shaped sections of carbon or graphite for the

apparatus for heating and h ardening and plating metal, gas operated apparatus of this

construction and lining of furnaces, cupolas,

industrial heating installations. Class 23,

Classes: 1	Country: Bolivia Owner: Union Carbide Corporation  Agent: LAND Landivar & Landivar	UCAR MR 110	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus included in class 9 (Schedule IV) for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.	Country: Belize Owner: Union Carbide Corporation Classes: 9	UCAR MR 1105	Trademark Name Division Attorney(s) Case	Thursday, November 05, 1998	
Remarks: Assignment to UCC Holdings recorded 12/5/90. Assignment to UCC recorded 2/7/91. Merger and change/name recorded	ation andivar	1106 Renewing	Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus included in class 9 (Schedule IV) for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.	ation Remarks:	105 Registered	Application Case Number Status Number/Filing	Trademark List	
Holdings recorded	29-Nov-1987	37050-A 29-Nov-1997		06-Jul-1987	1912 06-Jul-2001	Registration Renewal First Use Number/Date Date Date	Page: 4	

Goods: Graphite and carbon for general industrial uses.

UCAR	Goc				Classes: 9	Age	Country: Bolivia Own	UCAR	Trademark Name	Thursday, November 05, 1998
MR	ds: Electrodes and an same.			•	es: 0	Agent: LAND Landivar & Landivar	Owner: Union Carbide Corporation	MR	Division Attorney(s)	
1108	Goods: Electrodes and anodes and connecting pins for same.					& Landivar	rporation	1107	Case Number	Trademark List
Registered	oins for	Merger and chan 1/23/96.	Assignment to UCC recorded 2/7/91.		Remarks: Assignment to UCC Holdings			Renewing	Application Status Number/Filing	ist
U.K. 1,000		Aerger and change/name recorded /23/96.	CC recorded		CC Holdings		29-Nov-1987	37043-A	Registration Number/Date	
06-Jul-2001								29-Nov-1997	Renewal Date	
									First Use Date	Page: 5

Remarks: Based on U.K. Reg. No. 896862

dated 7/6/66.
Merger & ch/name recorded
1/10/96.

Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and

carbons for electrical purposes.

anodes, electric apparatus included in class 9 for cutting, welding, soldering, brazing, scarfing,

plating, heating and hardening metal, and

Agent: ADAM Adams & Adams

Thursday, November 05, 1998		Trademark List	List			Page: 6
Trademark Name	Division Attorney(s)	Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1109	Registered	007175370	09-Mar-2000	
Country: Brazil	Owner: Union Carbide Corporation Classes: 6	rporation	09-Mar-1990 Remarks: Merger/Ch of name recorded 6/11/96.	09-Mar-1990 e recorded		
	Goods: Electrodes, anodes and connecting pins for electrodes and anodes.	s and connecting pin odes.	s for			
UCAR	MR	1110	Registered	9244	04-Dec-2003	
Country: Bulgaria	Owner: Union Carbide Corporation	rporation		04-Dec-1993		
	Agent: MAGA Magarita V. Harizanova	V. Harizanova				
	Classes: 9		Remarks: Assignment & Ch/name recorded.  Merger/change of name 8/4/95.	name recorded. name 8/4/95.		
	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and	Electric dry cells, electric batteries, electro anodes, connecting pins for electrodes and	ctrodes,			
	anodes, electric ap soldering, brazing and hardenint met	anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardenint metal, and carbon for electrical	welding, eating ectrical			
IICAR	purposes.		-			
Country: Canada	MR Owner: Union Carbide Corporation	1111 poration	Registered	171356 18-Sep-1985	18-Sep-2000	
	Agent: SIM Sim & McBurney	Burney		ı		

Goods: Graphite electrodes and connecting pins

Remarks: Associated with Reg. No. 161262.

Assignment and change/name recorded 11/23/90.

Merger and change/name recorded.

therefor.

Thursday, November 05, 1998		Trademark List	List				Page: 7
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal First Use Date Date	First Use Date
UCAR	MR	1113	Renewing	8	330814	18-May-1998	
Country: Chile	Owner: Union Carbide Corporation	orporation			18-May-1988		

Goods: Natural mineral substances, elaborated and

3/15/96.

Merger and change/name recorded

Remarks: Assignment and change/name

recorded 2/7/90 and 4/6/90.

Agent: ESTU Estudio Federico Villaseca

prepared for industrial use, especially graphite and carbon and all other goods in class 1.

ingredients for various purposes, mineral greases and all other goods in class 4. Graphite and carbon used as lubricants or

same, electric batteries and dry cells (class 9). Electrodes, anodes and connecting pins for the

Thursday, November 05, 1998							
בייייים בייין ויטירנוווטכן טאָ 1770		Trademark List	ist				Page: 8
Trademark Name	Division Attacked	A#A	2	Application	Registration	Renewal First Use	First Use
UCAR	MP	111	-				
ULAK	MR	1114	Renewing		66,540	12-Feb-1993	
Country: Colombia	Owner: Union Carbide Corporation	orporation			12-Feb-1988		

Agent: CAVE Cavelier Abogados

Remarks: Shared with UCC.

Assignment and change name recorded 6/1/90.

Merger and change name recorded

2/13/98.

License from UCTC to UCCI recorded3/24/98, resolution no.

Goods: Chemical substances used in the industries, in class 1 of becree 755 of 1.972. especially graphite and carbond or lampblack agricultural and horticultural works and photograph and scientific investigations, in for industrial purposes, articles covered under

Thursday, November 05, 1998		Trademark List	List				Page: 9
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal First Use e Date Date	First Use Date
UCAR	MR	1117	Registered	ă.	1878/1969 11-Jul-1999	11-Jul-1999	
Country: Denmark	Owner: Union Carbide Corporation	orporation			11-Jul-1989		
	Agent: BUDD Budde Schou & Co.	chou & Co.					

Remarks: Consent: Schering A.G. in

Denmark.

Consent: Westvaco Corporation.

Shared with Ralston.

Assignment and change name

recorded 5/7/90

Merger and change name recorded

12/12/94

Goods: Electric lamps and electric lamp bulbs electric flashlights, electric torches and parts thereof, gas operated apparatus for heating, hardening and plating metal, heat exchangers (not being parts of machines) and parts thereof, industrial chemical installations (not being machines), namely scrubbing, adsorption, fractionating and stripping towers and columns for gas an dparts of such towers and columns, and pipes tubes and valves, all made of carbon and graphite and being parts of the mentioned industrial chemical installations, shaped sections of carbon or graphite for the construction and lining of furnaces, cupolas, industrial heating, installations, nuclear reactors, and carbons for

electric lamps.

					_		
Thursday, November 05, 1998		Trademark List	ist			and the second s	Page: 10
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1118	Registered		46210	24-May-2000	
Country: Egypt	Owner: Union Carbide Corporation	rporation			24-May-1990		
	Agent: BAKI Bakir International Office	mational Office					
	Classes: 9		Remarks: A pu N	Assignment and change name published 3/1/92, issue 619. Merger and change name recorded 11/27/97.	nge name sue 619. name recorded		
	Goods: Electric batteries and electric dry cells,	and electric dry cells,					
	electrodes, anodes, electrodes and ano	electrodes, anodes, connecting pins for electrodes and anodes being parts of these	Se				
	electrodes and ano in motion picture p	electrodes and anodes, carbon electrodes for use in motion picture projection apparatus.	s for use				
UCAR	MR	1119	Registered		16595/40	29-Jan-1999	
Country: El Salvador	Owner: Union Carbide Corporation	poration			29-Jan-1994		

Classes: 12 22

Remarks: Assignment and change name recorded 7/10/90.

Goods: Graphite and carbon for general industrial uses:

batteries.

electrodes and anodes. Electric dry cells and electrodes and anodes and connecting pins for Agent: RICA Ricardo Romero-Guzman

Thursday, November 05, 1998	Trademark List	ark List				Page: 11
Trademark Name		<b>&gt;</b>	Application	Registration	Renewal	First Use
14444	Attorney(s) Case Number	Status	Number/Filing	Number/Date	Date	Date
UCAR	MR 1120	Pending	36590			
Country: European Community	Owner: Union Carbide Corporation		01-Apr-1996			
Designated Countries	Agent: GEVE Gevers & Partners					
AT Pending	Classes: 1 2 9 19	Remarks:				
BX Pending	Goods: Chemical products for use in industry,					
DE Pending	agriculture and personal care products	oducts,				
DK Pending	including synthetic organic chemicals and	nicals and				
ES Pending	adhesives, organic oxides, synthetic organic	etic organic				
FI Pending	chemical solvents, chemical fuel additives	additives,				
FR Pending	compounds compositions and mixtures	-icing fluids,				
GB Pending	containing synthetic resins or plastics, carbon	astics, carbon				
GR Pending	and graphite, and compounds, compositions	ompositions				
IE Pending	and maximes containing carbon or graphite, industrial gases, including acethylene, oxygen	or graphite, viene, oxygen				
IT Pending	hydrogen, nitrogen, argon, helium, neon	m, neon,				
MC Pending	krypton and xenon and calcium carbide in Int.	carbide in Int.				
	class 1. Chemical products for use in coatingss,	se in coatingss,				
P1 Pending	paints, varnishes and lacquers, metal and	netal and				
SE Pending	ceramic coating materials in Int. class 2	class 2.				
	Electric dry cells and batteries, anodes, electrodes and cathodes, connecting pins for anodes and electrodes, and carbon and graphite	nodes, ing pins for n and graphite				
	for electrical purposes in Int. class 9. Products made partly or wholly of carbon and/or graphite in Int. class 19.	ss 9. Products and/or graphite				

	Comit y: 1:1Hally	Country Einland	Trademark Name	Thursday, November 05, 1998
Agent: BERG Berggren OY AB	Owner: Union Carbide Corporation	MR	Division Attorney(s)	
1 ОУ АВ	orporation	1121	Attorney(s) Case Number	Trademark List
		Registered	Status	List
			Application Number/Filing	
•	05-May-1997	50148	Registration Number/Date	
		05-May-200	Renewal First Use	
		7	First Usc Date	Page: 12
DE	: p/I	ΔΕ	2K	

Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal and carbons for electrical purposes and all other goods in class 9.

Classes: 9

Remarks: Merger and change name recorded

6/19/95.

Shared with Ralston.

i nursday, November 05, 1998		Trademark List	List			Page: 13
Tradomark Namo	Division	<b>1</b>		Registration	wal	First Use
I rademark Name	Attorney(s)	Attorney(s) Case Number	Status Number/Filing	Number/Date Date	Date	Date
UCAR	MR	1122	Registered 736155	1408174 13-May-200	13-May-2007	
Country: France	Owner: Union Carbide Corporation	orporation	22-Jun-1967	13-May-1997		
	Agent: RINU Rinuy, Santarell	antarelli				

Goods: Electric lamps and electric lamp bulbs, electric

Remarks: Assignment and change name recorded 3/7/90.

Shared with Ralston.

torches and parts thereof, gas operated apparatus for heating, hardening and plating metal, heat exchangers (not being parts of machines) and parts thereof, scrubbing, adsorption, fractionating and stripping towers and columns, all being parts of industrial chemical installations (not being machines) and

lighting purposes.

chemical installations, and carbons for electric

installations, nuclear reactors, and industrial

parts of such towers and columns, and pips tubes and valves, all made of carbon and

graphite and being parts of industrial chemical

Thursday, November 05, 1998		Trademark List	List				Page: 14
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal First Use e Date Date	First Use Date
UCAR	MR	1124	Registered	8.	863961	17-Jul-2007	
Country: Germany	Owner: Union Carbide Corporation	orporation			17-Jul-1997		

Agent: LOUI Louis, Pohlau, Lohrentz & Sege

Classes: 6 7 9 11 17 19 Remarks: Assignment and change name

Goods: Electrical flashlight apparatus, electrical bulb cylinders; electric pocket lamps and parts

Shared with Ralston. name recorded 2/20/92. Merger Assignment and change

recorded 2/20/92.

pipes, tubs and valves made of carbon and fo rindustrial installations (not being machines), chemical apparatus for scrubbing adsorption, fractionating and stripping towers and columns (not being parts of machines) and parts thereof, hardening and plating metal, heat exchangers thereof; gas operated apparatus for heating

chemical installations, carbons for electric

installations, nuclear reactors, and industrial

graphite for the construction and lining of

urnaces, cupolas, industrial heating

installations; shaped sections of carbon and

graphite and being parts of industrial chemical

lighting purposes.

Thursday, November 05, 1998		Trademark List	ist				Page: 15
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1126	Registered	U7439/9WZ	1147030	25-Feb-1999	
Country: Germany	Owner: Union Carbide Corporation	orporation		25-Feb-1989	25-Feb-1989		
	Agent: LOUI Louis, Pohlau, Lohrentz & Sege	hlau, Lohrentz & Seg	G				
	Classes: 9		Remarks:	Assignment and change name recorded 2/20/92.	ange name		
				Merger and change name recorded 1/19/98.	name recorded		
	Goods: Electrodes, anodes and connecting pins for electrodes and anodes.	es and connecting pins	for				
UCAR	MR	1127	Registered		36265	30-Sep-2006	
Country: Greece	Owner: Union Carbide Corporation	orporation			30-Sep-1996		
	Agent: VAYA Vayanos Kostopoulos	Kostopoulos					

Remarks: Assignment and change name recorded 11/17/89.

Merger and change name recorded

Shared with Ralston.

12/20/96.

Goods: Electric dry cells, electric batteries, electrodes,

anodes, connecting pins for electrodes and anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes, and all other goods included in class 9.

inursday, November 05, 1998		Trademark List	List				Page: 16
	Division			Application	Registration	Renewal	First Use
1 rademark Name	Attorney(s)	Attorney(s) Case Number	Status	Number/Filing	(1)	Date	Date
UCAR	MR	1128	Registered	ed	37849	18-Jul-2007	
Country: Greece	Owner: Union Carbide Corporation	orporation			18-Jul-1997		

Agent: VAYA Vayanos Kostopoulos

Remarks: Assignment and change name

recorded 11/20/89.

Merger and change name recorded

2/19/96.

Shared with Ralston.

Goods: Electric flashlights, electric lamps and electric lamp bulbs, electric torches and parts thereof; gas operated apparatus for heating, hardening and plating metal, heat exchangers (not being parts of machines) and parts thereof, scrubbing adsorption fractionating and stripping towers and columns, and pipes tubes and valves, all made of carbon and graphite and being parts of industrial chemical installations, shaped sections of carbon or graphite for the construction and lining of furnaces, cupolas, industrial heating installations, nuclear reactors, and industrial chemical installations, and

carbons for electric lighting purpsoses.

inursday, November 05, 1998		Trademark List	ist	in San Anna San San San San San San San San San	-		Page: 17
Trademark Name	Division Attorney(s)	Case Number	Status 1	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		1129	Registered		1 1	09-Jan-1999	
Country: Guatemala	Owner: Union Carbide Corporation	poration			09-Jan-1989		
	Agent: FERN Fernandez Y Fernandez S.A.	Y Fernandez S.A.					
	Classes: 9		Remarks: As	Remarks: Assignment and change name recorded.	nge name		
	Goods: Electricity, machinery, supplies and electric	nery, supplies and ele	ctric				
	heat, and lights, telephony, telegraphy, radiography, radiotelephony and radiotelephon radiotelephon and especially. I anodes and connecting pins for el anodes, electric dry cells and batt	heat, and lights, telephony, telegraphy and wireless telegraphy, radiography, radiotelephony and radiotelephone and radiotelephony and especially. Electrodes and anodes and connecting pins for electrodes and anodes, electric dry cells and batteries.	and and des and les and				
UCAR	MR	1130	Renewing		6826A	18-Jul-1998	Add the second s
Country: Guyana	Owner: Union Carbide Corporation Agent: POON N.O. Poonai	poration ai			18-Jul-1988		

Remarks: Assignment recorded.

Change/name not filed per agent advice.

Goods: Graphite and carbon for general industrial uses, and all other goods included in Class 1.

Thursday, November 05, 1998		Trademark List	List				Page: 18
	Division			Application	Registration	Renewal	First Use
Trademark Name	Attorney(s)	) Case Number	Status	Number/Filing	Number/Date	Date	Date
UCAR	MR	1131	Renewing		49671	15-Jul-1998	
Country: Honduras	Owner: Union Carbide Corporation	Corporation			15-Jul-1988		
	Agent: BUFE Bufete Mejia & Asociados	e Mejia & Asociados					
	Classes: 9		Remarks: 7	This is old Reg. No. 14,794 broken down into separate classes. Assignment and name change recorded 10/90.	. 14,794 broken classes. ıme change		
	Goods: Electric batter and connectin	Goods: Electric batteries, electrodes, anodes, cathodes and connecting pins for electrodes and anodes.	cathodes nd anodes.				
UCAR		1132	Registered		116905	12-Oct-2003	
Country: Hungary	Owner: Union Carbide Corporation	• Corporation			12-Oct-1993		
	Agent: SBGK S.B.C	Agent: SBGK S.B.G Z. & K. Patent and Law O	W O				

TRADEMARK REEL: 1826 FRAME: 0021

Goods: Electric dry cells, electric batteries, electrodes, anodes and connected devices.

Classes: 9

Remarks: Assignment recorded 11/27/89;

change/name recorded 7/10/90.

Merger and change/name recorded 9/8/97.

Shared with Ralston.

Thursday November 05 1000							
That sady, trovellinet, 02, 1998		Trademark List	List				Page: 19
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use
UCAR	MR	1133	Unfiled	218540	218540		
Country: Indonesia	Owner: Union Carbide Corporation	rporation					
	Agent: AMRO Amroos Law Consultants	aw Consultants					
	Classes: 1 9		Remarks:	Merger and change/name recorded 5/28/97.	name recorded		
	Goods: Electric dry cells, electric batteris, prjector	electric batteris, prjed	ctor				
	carbons, electrode electrodes and an	carbons, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus for	g pins for us for				
	cutting, welding, plating, heating a carbons for electri	cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metals, and carbons for electrical purposes, and all other goods in class 9.	arfing, and other				
UCAR	MR	1135	Registered		37597	02-Sen-2005	
Country: Israel	Owner: Union Carbide Corporation	poration			02-Sep-1991	,	

Remarks: Assignment and change name

recorded.

Merger and change name recorded 2/1/96.

Shared with Ralston.

Goods: Electric dry cells and batteries, electrodes for

electrodes and anodes.

apparatus, anodes and connecting pins for electric welding and for use in spectroscopic Agent: MIJLF A.E. Mulford

**REEL: 1826 FRAME: 0022** 

TRADEMARK

	,		71 Can 1001			orporation	Owner: Union Carbide Corporation	water J. Idid\1
	- • ;	21-Sep-2005	32598	d	Registered	1136	MR	Country: Israel
Use	First Use Date	Renewal Date	Registration Number/Date	Application Number/Filing	Status	Attorney(s) Case Number	- 1 1	Trademark Name
Page: 20					List	Trademark List	Division	Amaisuaj, movember 03, 1998

Agent: MULF A.E. Mulford

Classes: 11 Remarks: Assignment recorded 9/11/89.

Merger and change name recorded

2/1/96.

Shared with Ralston,

Goods: Flashlights not for photographic purposes, electric lamps and electric lamp bulbs, electric torches and parts thereof included in class 11, gas operated apparatus included in class 11 for heating, hardening and plating metal; heat exchangers (not being parts of machines) and parts thereof included in class 11, scrubbing, adsorption, fractionating and stripping towers and columns, all being industrial chemical installations (not being machines) and parts of such towers and columns included in class 11, and pipes, tubes and valves, all made of carbon and graphite and being parts of industrial chemical installations included in class 11,

apparatus.

motion picture projectors and in therapeutic

lighting purposes, ARC carbons for use in

class 11. Nuclear reactors not included in other

industrial heating installations and included in

construction and lining of furnaces cupolas,

shaped sections of carbon or graphite for the

classes and industrial chemical installations

included in class 11, carbons for electric

Thursday, November 05, 1998							
V		Trademark List	ist				Page: 21
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Renev Number/Date Date	wal	First Use Date
UCAR	MR	1137	Renewing	220866	531802	28-Jul-1997	
Country: Italy	Owner: Union Carbide Corporation	orporation		28-Jul-1967	28-Jul-1987		
	Agent: BARZ Ing. Barzano & Zarrio Roma S P	zano & Zaardo Roma S	ט				

Remarks: Shared with Ralston,

Goods: Electric flashlights, electric lamps and electric lamp bulbs, electric torches and parts thereof, gas operated apparatus for heating, hardening and plating metal, heat exchanger (not being parts of machines) and parts thereof, scrubbing adsorption, fractionating and stripping towers and columns, all being industrial chemical installations (not being machines) and parts of such towers and columns, and pipes, tubes and valves, all made of carbon and graphite and being parts of industrial chemical installations,

and carbons for electric lighting purposes.

construction and lining of furnaces, cupolas,

shaped sections of carbon or graphite for the

and industrial heating installations, nuclear

industrial heating installations, nuclear reactors,

reactors and industrial chemical installations

Thursday November 05 1998						
mursual) moremoer of 1000		Trademark List	List			Page: 22
E	Division		Application	on Registration	Renewal	First Use
Trademark Name	Attorney(s)	Case Number	Status Number/Filing	Filing Number/Date	Date	Date
UCAR	MR	1138	Registered	14,925	16-May-2002	
Country: Kenya	Owner: Union Carbide Corporation	orporation		16-May-1988		
	Agent: KAPL Kaplan & Stratton	& Stratton				
	Classes: 9		Remarks: Assignmen Change na	Assignment recorded 11/15/89. Change name recorded 10/23/89.		
	Goods: Electric dry cells, electric batteries, electrodes,	, electric batteries, elec	ctrodes,			
	anodes, connecti anodes, electric;	anodes, connecting pins for electrodes and anodes, electric apparatus for cutting, welding,	and welding,			
	and hardening in purposes, and all	and hardening metal and carbons for electrical purposes, and all other goods in class 9.	eating lectrical ).			
UCAR	MR	1139	Registered	27/66	15-Feb-2001	
Country: Malawi	Owner: Union Carbide Corporation	orporation		15-Feb-1987		
	Agent: JOHN John & Kernick	\( \text{ernick} \)				
	Classes: 9		Remarks: Assignmen 12/8/89.	Assignment change name record 12/8/89.		
			Merger and 4/21/95.	Merger and change name recorded 4/21/95.		
	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and	Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and	ctrodes, and			
	soldering, brazin and hardening m	soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.	eating lectrical			
	purposes.					

Thursday, November 05, 1998		Trademark List				Page: 23
	Division		Application	Registration	Renewal	First Use
1 rademark Name	Attorney(s)	Case Number Sta	Status Number/Filing	æ	Date	Date
UCAR	MR	1140 Per	Pending 92/08323			
Country: Malaysia	Owner: Union Carbide Corporation					
	Agent: SHEA Shearn Delamore	lamore				
	Classes: 9	Ren	Remarks: Associated with 92/08322, 92/08321, 92/08320, 88/02536,	08322, ), 88/02536,		
	Goods: Graphite electrodes and graphite dies, namely, specialty graphite for casting applications such as molds and dies.	Graphite electrodes and graphite dies, namely, specialty graphite for casting applications such as molds and dies.	<b>n</b> •			
UCAR	MR	1141 Pen	Pending 92/08320			
Country: Malaysia	Owner: Union Carbide Corporation	poration	26-Nov-1992			
	Agent: SHEA Shearn Delamore	amore				
	Classes: 1	Rem	Remarks: Associated with 88/02536 and R/18255.	02536 and		
	Goods: Manufactured or processed carbon and graphite materials, namely, anodes, electrodes, specialties, flexible graphite and powders,	Manufactured or processed carbon and graphin materials, namely, anodes, electrodes, specialties, flexible graphite and powders,	[e			
	carbon, graphite or	processed refractory materials produced from carbon, graphite or ceramic materials, namely				
	bricks, pastes, ceme protection tubes, wa	bricks, pastes, cement and thermocouple protection tubes, water spray-cooled systems				
	and furnace operati melting furnaces.	and furnace operating systems for electric arc melting furnaces.				

Thursday, November 05, 1998	Trademark List	List			Page: 24
Trademark Name	Division Attornev(s) Case Number	Application	Registration	Renewal	First Use
UCAR	MR 1142	<u> </u>	142526	06 Can 2002	
Country: Mexico	Owner: Union Carbide Corporation		06 5- 1000	1000	
	Agent: BECE Becerrill, Coca & Becerril, S.				
	Classes: 1	Remarks: Assignment and change/name	an <i>ge/</i> name		
			C		
		Merger recorded 2/20/95; change/name recorded 12/7/95.	20/95; led 12/7/95.		
	Goods: Graphite and carbon for general industrial uses	•			
UCAR	MR 1143	Registered	146,448	06-Sep-2002	
Country: Mexico	Owner: Union Carbide Corporation		06-Sep-1967	,	
	Agent: BECE Becerrill, Coca & Becerril, S.	•	•		
	Classes: 21	Remarks: Merger recorded 2/20/95. Change/name recorded 12/26/96.	20/95. ded 12/26/96.		
	Goods: Electrical apparatus, machines and supplies, especially carbon or graphite electrodes and				
	anodes; electric dry cells and batteries.	odes and			
UCAR	MR 1144	Registered	85500	24-Oct-2002	
Country: New Zealand	Owner: Union Carbide Corporation		24-Oct-1988		
	Agent: PARK A.J. Park & Son				
	Classes: 1	Remarks: Assignment recorded.  Merger and change name recorded  per letter 12/8/95.	d. name recorded		
		per retter 12/0/35.	05501		

Goods: Graphite and carbon for general industrial uses.

Associated with Reg. No. 85501.

Thursday, November 05, 1998	i c	Trademark List	List		And the second of the second o		Page: 25
Trademark Name	Division Attorney(s)	Case Number		Application	Registration	Renewal	First Use
TIOLD				a			
UCAR	MR	1145	Registered		85501	24-Oct-2002	
Country: New Zealand	Owner: Union Carbide Corporation	orporation			24-Oct-1988		
	Agent: PARK A.J. Park & Son	& Son					
	Classes: 9		Remarks:	Assignment recorded.  Merger and change name recorded	d. nome recorded		
	Cronder Hlantrodes and ar	oder and compacting	f.	(			
	Goods: Electrodes and anodes and connecting pins for electrodes and anodes.	nodes and connecting odes.	pins for				
UCAR	MR	1147	Renewing		18420	20-Oct-1998	
Country: Nicaragua	Owner: Union Carbide Corporation	orporation			20-Oct-1988		
	Agent: GUY Guy J. Bendana Guerrero & Asso	endana Guerrero & A	SSO				
	Classes: 24		Remarks:	Remarks: Assignment recorded 9/3/91.	19/3/91		

Goods: Electrodes and anodes and connecting pins for electrodes and anodes. Electric dry cells and

Change name recorded 10/23/91.

batteries.

Thursday Navamban 05 1000							
Thurshay, indyculber 03, 1998		Trademark List	List				Page: 26
Trademark Name	Division Attachan(a)	2	2	Application	Registration Renewal First Use	Renewal	First Use
TI AUCHIAIN IVAILIE	Attorney(s)	Attorney(s) Case Number	Status	Number/Filing	Number/Date	Date	Date
UCAR	MR	1149	Registered	ă.	30383	26-Jul-2001	
Country: Panama	Owner: Union Carbide Corporation	orporation			26-Jul-1991		

Classes: 1 Agent: ARIAS Arias, Fabrega & Fabrega

Remarks: Based on Honduran Reg No. 14,794

due 1/1/88.
Divisional registration of No.

14,528.
Proof of renewal based on
Honduran Reg. No. 14,794 recorded

2/19/90.

Assignment and change name

recorded 5/16/90.

Goods: Carbons and graphite and products made including structures for the construction of partially or totally of carbons or graphite, industrial equipments.

Thursday, November 05, 1998		Trademark List	List	The second secon			Page: 27
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal First Use 2 Date Date	First Use Date
UCAR	MR	1150	Registered	d	14528	26-Jul-2001	
Country: Panama	Owner: Union Carbide Corporation	orporation			26-Jul-1991		

Agent: ARIAS Arias, Fabrega & Fabrega

Remarks: Based on Honduran Reg. No.

Divisional registration of no.

14,528.

Honduran Reg. No. 14749, recorded Proof of renewal based on

2/9/90. Assignment and change/name

Merger and change/name recorded...

Goods: Electric batteries, therapeutic apparatus and apparatus. blocks and brushes for machines and electrical electric and electronics, oceanographic and anodes, brushes of carbon and graphite and class, for fine electrics, pin joints for electrodes carbons, electrodes, anodes and cathodes in the apparatus, data processing equipment, arc oxygen, laser components and apparatus,

Thursday, November 05, 1998		Trademark List	ist				Page: 28
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1154	Renewing		126872	21-Oct-1997	
Country: Paraguay	Owner: Union Carbide Corporation Classes: 1	rporation	Remarks: /	21-Oct- Remarks: Assignment recorded 2/13/90.	21-Oct-1987 d 2/13/90.		
			4 3 0	Change of name recorded 4/12/93. Merger and change name recorded 4/96.	orded 4/12/93. name recorded		
	Goods: Graphite and carbon for general industrial uses,	on for general industri	al uses,				
	and all other goods in class 1.	s in class 1.	`				
UCAR	MR	1155	Renewing		126873	21-Oct-1997	
Country: Paraguay	Owner: Union Carbide Corporation	poration			21-Oct-1987		
	Agent: ABEN AbenteSaguier	guier					

Remarks: Assignment recorded 2/13/90.

Change of name recorded 4/12/93.

Merger and change name recorded 4/96.

Goods: Electrodes and anodes and connecting pins for

electrodes and anodes, electric dry cells and

batteries, and all other goods in class 9.

Thursday, November 05, 1998		Trademark List	List				Page: 29
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Rene Number/Date Date	Renewal First Use e Date Date	First Use Date
UCAR	MR	1156	Registered	pc Dc	12169	19-Jul-2002	
Country: Peru	Owner: Union Carbide Corporation	orporation			19-Jul-1992		

Agent: ESTU Estudio Barreda Moller

Remarks: Opposition filed to application by

Uniquimica S.A. to register
UKOCAR on 12/28/87. Trademark
Office issued Resolution No. 63426

dated 7/3/90 sustaining the opposition against applicant: confusingly similar to UCAR. Case closed.

Assignment and change name recorded 6/20/90.

Opposition to UNICAR dismissed on appeal 3/95.

Merger and change name recorded 8/9/95.

Goods: Graphite and carbon for general industrial uses.

	UCAR				Classes: 9	Agen	Comin y. Fern Owne	OCAR	Trademark Name  Division	Thursday, November 05, 1998
	MR	s: Electric dry cells, anodes, connectin anodes, electric ap soldering, brazing and hardening me purposes.			<u>18.</u> 9	Agent: ESTU Estudio B	Owner: Union Carbide Corporation	MR	Attorney(s)	
	1158	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus for cutting welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.				Estudio Barreda Moller	rporation	1157	Case Number	Trademark List
Registered	3	elding, ating lectrical	Me 8/9,	reg Ass	Remarks; Op			Registered	Status N	List
			Merger and change/name recorded 8/9/95.	registration denied. Assignment and change/name recorded 6/20/90.	Opposition against Ukocar upheid;				Application Number/Filing	
	57120		name recorded	nge/name	īkocar upheid;		19-Jul-1992	12170	Registration Number/Date	
	02-Feb-2006							19-Jul-2002	Renewal Date	
									First Usc Date	Page: 30

Remarks: Assignment and change/name

recorded 9/10 and 9/11/90.

Not required to record

Agent: SOJUZ Sojuzpatent

Goods: Electric dry cells; electric batteries; electrodes;

maintaining.

Ralston not interested in

merger/change of name per agents.

and hardening metal; and carbons for electrical soldering, brazing, scarfing, plating, heating anodes; electric apparatus for cutting, welding, anodes; connecting pins for electrodes and

purposes.

Thursday, November 05, 1998	Trade	Trademark List				Page: 31
Trademark Name	Division Attorney(s) Case Number	Status	Application Number/Filing	Registration Rene	Wal	First Use
UCAR						747
UCAR	MR 1159	Registered S	S/41618	41618	08-May-2002	
Country: Singapore	Owner: Union Carbide Corporation	0	08-May-1967	08-May-1988		
	Agent: DREW Drew & Napier					
	Classes: 9	Remarks:				
	Goods: Electric cells, electric batteries, anodes, connecting pins for electrodes and anodes and	s, anodes, and anodes and				
UCAR	MR 1160	Registered		44150	17_l <sub>wn_</sub> 2003	
Country: Singapore	Owner: Union Carbide Corporation			17-Jun-1989		
	Agent: DREW Drew & Napier					
	Classes: 11	Remarks:				

Goods: Carbon and graphite electrodes for electric furnaces; carbons for electrical purposes.

Country: South Africa Owner	UCAR	Trademark Name  Division	Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	1 1	
rporation	1161	Attorney(s) Case Number	Trademark List
Registered			
	ed	Application Number/Filing	
06-Dec-1995	65/5071	Registration Number/Date	
	06-Dec-2005	Renewal Date	
		First Use Date	Page: 32

Agent: ADAM Adams & Adams

Remarks: Associated with No. 65/3669

Assignment to UCC Holding recorded and RUS cancelled

Change/name recorded 2/15/91.

Merger and change/name recorded 11/30/95.

Goods: Electric dry cells, electric batteries, electrodes; purposes, and all other goods included in this soldering, brazing, scarfing, plating, heating anodes; electric apparatus for cutting, welding, anodes, connecting pins for electrodes and and hardening metal; and carbons for electrical

Cominy. Spani	Country Spain	Trademark Name	Thursday, November 05, 1998	
Owner: Union Carbide Corporation	MR	Division Attorney(s)		
orporation	1162	Attorney(s) Case Number	Trademark List	
	Registered 535591	Status	List	
		Application Number/Filing		
30-May-1997		Registration Number/Date		
	30-May-2007	Renewal First Use Date Date		
	7	First Use Date	Page: 33	
N / I	۸ D	V		

Agent: POLO Carlos Polo

Remarks: Consent: United Chemists Assoc. Ltd. in Spain.

Assignment and ch/name recorded 12/28/90.

Merger and ch/name recorded 2/2/95.

Goods: Electrodes and anodes and connecting pins for electrodes and anodes. appliances and instruments. electrical, optical, weighing and control Additional goods added 10/20/84: Scientific,

Thursday November 05 1000							
Time builty in or camber 05, 1990		Trademark List	List				Page: 34
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Q.	Application	Registration	Renewal First Use	First Use
UCAR				9	11'	Dutc.	D ave
UCAK	MR	1163	Registered	d	540629	30-May-2000	
Country: Spain	Owner: Union Carbide Corporation	orporation			30-May-1970		

Classes: 11

Agent: POLO Carlos Polo

Remarks: Consent: United Chemists Assoc

Ltd. in Spain.

Consent to UCESA for I.R.

UCARSEP.

Merger and change/name recorded 2/2/95.

Goods: Electric flashlights, electric lamps and electric and industrial chemical installations; and industrial heating installations; nuclear reactors, construction and lining of furnaces, cupolas, shaped sections of carbon or graphite for the being parts of industrial chemical installations; valves, all made of carbon and graphite and such towers and columns; and pipes, tubes and and columns, all being industrial chemical and plating metal; heat exchangers (not being gas operated apparatus for heating hardening adsorption, fractionating and stripping towers parts of machines) and parts thereof; scrubbing, installations (not being machines) and parts of lamp bulbs; electric torches and parts thereof,

carbon for electric lighting purposes.

Thursday, November 05, 1998			Trademark List	List				Page: 35
Trademark Name	Division At	torney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Renewal First Use Number/Date Date Date	Renewal Date	First Use Date
UCAR	M	MR	1165	Registered	8.	120714	18-Aug-2007	
Country: Sweden	Owner: Union Carbide Corporation	1 Carbide Co	rporation			18-Aug-1997		

Agent: ALBI Albihns Patentbyra Stockholm A

Remarks: (1) Consent: Puck Produits Sweden. (2) Consent: Schering A.G. in In Sweden. Sweden. (3) Consent: Speri S.P.A. in Chimiques (Ukapor) Sweden. (4) Consent: Ucan Greenman Ltd.

(5) Consent: Westvaco Corporation.

(6) Assignment and ch/name

(7) Merger & ch/name recorded recorded 4/26/90.

(8) Shared with Ralston.

Goods: (Class 7): Electric apparatus for cutting and scarfing. (class 9): electric dry cells, electric

weighting, measuring and life-saving apparatus and instruments; coin and counterfreed metal; carbons for electrical purposes; for welding, soldering, brazing and plating

batteries, electrodes, anodes, electric apparatus

heating and hardening metal. apparatus. (Class 11): Electric apparatus for

calculating machines; fire extinguishing

apparatus; talking machines; cash registers;

initisday, 190vember 05, 1998	Trademark List	ark List			Page: 36
Trademark Name	Division Attorney(s) Case Number	Application er Status Number/Filing	Registration Number/Date	Renewal	First Use
UCAR	MR 1166	Registered	122354	26-Ian-2008	
Country: Sweden	Owner: Union Carbide Corporation		26-Jan-1998		
	Agent: ALBI Albihns Patentbyra Stockholm A	cholm A			
	Classes: 1	Remarks: Assignment and ch/name recorded 4/26/90.	name recorded		
		Merger and ch/name recorded 1/5/96.	recorded		
	Goods: Graphite and carbon for general industrial uses.	ndustrial uses.			
UCAR Country: Toising	MR 1167	Registered	43922	31-Oct-2000	
Country: laiwan	Owner: Union Carbide Corporation  Agent: LEE Lee and Li		-1990		
	Classes: 69	Remarks: Assignment & ch/name recorded 7/27 and 9/7/90.	me recorded		
		Merger & ch/name not required to be recorded.	ot required to		

Goods: Electrodes, anodes, connecting pins for electrodes and anodes and arc carbons, and all

other goods in the other articles group of class 69.

Thursday, November 05, 1998		Trademark List	List				Page: 37
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1168	Registered		1005	06-Jul-2001	
Country: 1 onga	Owner: Union Carbide Corporation Classes: 9	rporation	Remarks:	06-Jul-1987 Remarks: Assignment and change/name not	•		
				recorded.	:		
				to lapse per client.	n Ionga; allow		
	Goods: Electric dry cells, electric batteries, electrodes,	electric batteries, ele		,			
	anodes, connectin	anodes, connecting pins for electrodes and	and				
	anodes, electric ap cutting, welding, s plating, heating an	anodes, electric apparatus included in class 9 for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal and	class 9 for carfing, and				
	carbons for electrical purposes	cal purposes.					
UCAR	MR	1169	Renewing		896862	06-Jul-1997	

Goods: Electric dry cells, electric batteries, electrodes, carbons for electric purposes. plating, heating and hardening metal, and cutting, welding, soldering, brazing, scarfing, anodes, electric apparatus included in class 9 for anodes, connecting pins for electrodes and

Ralston.

name recorded. (6) Shared with recorded 1/26/95. (5) Change of Country: United Kingdom

Owner: Union Carbide Corporation Classes: 9

06-Jul-1966 Remarks: (1) Assoicated with No. 865,946.

recorded 1/17/92. (4) Merger

U.K. (3) Assignment ch/name (2) consent: Ucan Greenman Ltd. In

Goods: Graphite and carbon heating and lighting elements.

(3) Assignment & ch/name recorded 1/17/92.

(4) Merger recorded 1/26/95.(5) Change of name recorded.

Thursday, November 05, 1998	Trademark List			Page: 39
Trademark Name	Division Attorney(s) Case Number Status Number/Eiling	Registration	Renewal	First Use
UCAR	red	1056849	29-Dec-2006	
Country: United Kingdom	Owner: Union Carbide Corporation	29-Dec-1975	#) - Doc 2000	
	Agent: GSCP The GSCP Partnership			
	Classes: 11 Remarks: (1) Consent: Ucan Greenman Ltd.	Greenman Ltd.		
	<u> </u>	d ch/name		
	recorded 1/17/92.	d chyname		
	(3) Merger recorded 1/26/95. (4) Change of name recorded.	d 1/26/95. le recorded.		
	Goods: Electric lamps and electric lamp bulbs; electric			
	Electric torches; gas operated apparatus for the hardening and plating of metals by heat			
	treatment; heat exchangers (not being parts of machines); scrubbing, adsorption, fractionating			
	and stripping towers and columns for gas; industrial chemical installations; pipes, tubes and valves, all made of carbon and/or graphite			
	chemical installations; shaped linings of carbon or of graphite for furnaces, cupolas (furnaces), industrial heating installations and for nuclear			
UCAR	MR 1172 Registered	864455	04-Feb-2009	
Country: United States of America	Owner: Union Carbide Corporation 04-Fel Classes: 19 Remarks: Merger & ch/name recorded	b-1969	;	
	Goods: Granhita nino stido	••,		

Goods: Graphite pipe slide support sets.

Thursday, November 05, 1998	Trade	Trademark List			Page: 40
Trademark Name	Division Attorney(s) Case Number	mher Status Application	Registration	Renewal	First Use
UCAR	MR 1173	Registered	884511	20-Ian-2000	
Country Illaited Otates of 1		0.2004	117100	70-14II-7000	
Country: United States of America	Owner: Union Carbide Corporation		20-Jan-1970		
	Agent: MRD Margaret Ranft Day			•	
	Classes: 9	Remarks: Merger & ch/name recorded	ecorded	~	
		2/11/95.			
	Goods: Electrolytic anodes.				
UCAR	MR 1174	Registered	893537	30-Jun-2000	
Country: United States of America	Owner: Union Carbide Corporation		30-Jun-1970		
	Agent: ACFT Assistant Commissioner for Tra	ner for Tra			
	Classes: 19	Remarks: Merger & ch/name recorded 2/21/95.	ccorded	\$ <b>.</b>	
	Goods: Carbon brick.				
UCAR	MR 1175	Registered	909659	09-Mar-2001	
Country: United States of America	Owner: Union Carbide Corporation		09-Mar-1971		
	Agent: MRD Margaret Ranft Day				
	Classes: 24	Remarks: Merger & ch/name recorded	corded	T	
	Goods: Carbon and graphite fabrics.				

Thursday, November 05, 1998		Trademark List	ist			Page: 41
Trademark Name	Division Attorney(s)	Case Number	Application Status Number/Filing	n Registration ling Number/Date	Renewal Date	First Use Date
UCAR	MR	1178	Registered		04-Sep-2003	
Country: United States of America	Owner: Union Carbide Corporation Classes: 19	poration	04-Sep-1973 Remarks: Merger and ch/name recorded 10/14/94.	04-Sep-1973 h/name recorded	,	
	Goods: Pastes and cements for use with or between carbon and graphite and between carbon or graphite and other substances for use in gas	Pastes and cements for use with or between carbon and graphite and between carbon or graphite and other substances for use in gas				
	lines, furnaces, the apparatus, and con chemical and meta	lines, furnaces, thermic applications, electrolytic apparatus, and construction work in the chemical and metallurgical industries, and pastes and cements for use in making making and pastes and cements for use in making	etrolytic dd			
	temporary walls, ar welding operations	temporary walls, and protective layers in welding operations.				
UCAR	MR	1180	Registered	973945	27-Nov-2003	
Country: United States of America	Owner: Union Carbide Corporation Classes: 9	oration	27-Nov-1973 Remarks: Merger & ch/name recorded	27-Nov-1973 name recorded		
	Goods: Metal ceramic thermocouple protecting tubes.	mocouple protecting to	ibes.			
TICAD						
Country: United States of Amorica	MR	1182	Registered	1008278	08-Apr-2005	
Country: Omited states of Afflettea	Owner: Union Carbide Corporation Classes: 1	oration	08-Apr-1975 Remarks: Merger & ch/name recorded 2/21/95.	08-Apr-1975 name recorded		,
	Goods: Unmachined carbon and graphite.	and graphite.			<b>ن</b> المراجع	

Inursday, November 05, 1998	Trademark List	List			Page: 42
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR 1184	Registered 73/018646	1014143	24-Jun-2005	Transit - in the second
Country: United States of America	Owner: Union Carbide Corporation Classes: 19	le:	24-Jun-1975 recorded		
		2/21/95.			
	Goods: Graphite pipe.		20		
UCAR Country: United States of America	MR 1185	Registered	1016291	22-Jul-2005	
Annual of the second	Owner: Union Carbide Corporation Classes: 9	Remarks:	22-Jul-1975		
	Goods: Carbon electrodes.		9 -		
UCAR	MR 1186	Registered	1173765	20-Oct-2001	
Committy of the profession of Allienca	Owner: Union Carbide Corporation Classes: 1	20-Oct-199 Remarks: 8 & 15 Affidavit accepted 5/6/88	20-Oct-1981 epted 5/6/88.		
		Merger & ch/name recorded 2/21/95.			
	Goods: Graphite powder for various uses in the industrial arts.			4	

Thursday, November 05, 1998	Trademark List		Page: 43
Trademark Name	Division App Attorney(s) Case Number Status Num	Application Registration Number/Filing Number/Date	Renewal First Use Date Date
UCAR	MR 1187 Registered	1496686 19	19-Jul-2008
Country: United States of America	Owner: Union Carbide Corporation Classes: 11 Remarks: (1) Op	19-Jul-1988  1) Opposition filed against Icar,	
	11/7/88. (2) 8 & 1 2/28/94. (3) Merg 2/21/95.	11/7/88. (2) 8 & 15 affidavit accepted 2/28/94. (3) Merger & ch/name recorded 2/21/95.	
	Goods: Electric arc furnace components, namely, side walls, exhaust ports, exhaust hoods, ladle furnace covers and parts thereof, in class 11.  (U.S. Cl. 34)		) h
UCAR	1100		
Country: United States of America	Owner: Union Carbide Corporation Classes: 9  Registered 7  Remarks: Merge 2/21/9	Registered 74/095358 1692647 09 10-Sep-1990 09-Jun-1992 Remarks: Merge & ch/name recorded 2/21/95, 8 & 15 filed 6/5/98.	09-Jun-2002
	Goods: Furnace operating systems for monitoring, controlling and reporting on the various functions, processes and parameters of electric		
	arc furnaces; chemistry management systems for monitoring the chemical makeup of furnace contents in International Class 9.		

Inursday, November 05, 1998	Trademark List	List			Page: 44
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use
UCAR	MR 1189	Registered 74/240160	1756549	-2003	
Country: United States of America	Owner: Union Carbide Corporation	27-Jan-1992	09-Mar-1993		
	Classes: 9	rks: Mer 2/21	recorded		
	Goods: Graphite electrodes and connecting pins for use in the steel and other metals manufacturing	iins for use Sturing		<u></u>	
	industries and the ceramic refractory materials industry, in Class 9 (U.S. Cl. 21).	materials		V	
UCAR	MR 1190	Registered	246632	23-Apr-2002	
Coultry: Oruguay	Owner: Union Carbide Corporation		05-Feb-1971		
	Agent: BARB Barbosa Caravia & Co.				
	Classes: 9	Remarks: Assignment and change/name recorded 5/10/90.	.nge/name		
		Change of name and address re: merger recorded 1/3 1/96. Merger and change/name recorded 8/12/96.	l address re: 1/96. name recorded		
	Goods: Graphite and carbon for general industrial uses	strial uses.			
UCAR	MR 1191	Renewing	65826-F	07-Jul-1996	
Country: Venezuela	Owner: Union Carbide Corporation		971		
	Agent: BENT Bentata Hoet & Associados				
	Classes: 21	Remarks: Assignment, ch/name recorded	e recorded		

Goods: Electrodes and anodes and connecting pins for electrodes and anodes; electric dry cells and

batteries.

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Time sumj, itoreminer us, 1998	Trademark List Page: 45
Trademark Name	Division Application Registration Renewal First Use  Attorney(s) Case Number Status Number/Filing Number/Date Date Date
UCAR	
Country: venezuela	Owner: Union Carbide Corporation 04-Aug-1988
	Agent: BENT Bentata Hoet & Associados
	Remarks: Appln. Replaces reg no. 65,825-F lapsed due to failure by Balogh to renew.
	Goods: Graphite and carbon for general industrial use.
OCAR	MR 1193 Renewing Z586/73 23099 25-Jun-1998
Country. Lugustavia	Owner: Union Carbide Corporation 25-Jun-1978 25-Jun-1988
	Agent: MIKI Mikijelj & Jankovic
	Classes: 9  Remarks: Assignment & ch/name recorded.  All renewals under the number  30,000 must file a request for resumption of file which must be filed with the request for renewal.
	Goods: Electric dry cells, electric batteries, electrodes,
	anodes, connecting pins for electrodes and
	soldering, brazing, scarfing, plating, heating
	purposes.
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indisuay, November 05, 1998	Trademark List	List			Page: 46
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Eiling	Registration	Renewal	
UCAR	MR 1194	<u>e</u>	724/65	06-Dec-2000	1000
Country: Zambia		C i	(17.47.7	0007-7000	
- Equiloid	Owner: Union Carbide Corporation		06-Dec-1965		
	Agent: ADAM Adams & Adams				
	Classes: 9	Remarks: Merger & ch/name recorded 8/8/95	recorded 8/8/95.		
	Goods: Electric dry cells, electric batteries, electrodes:				
	anodes connecting pins for electrodes and	and			
	machines): carbons for close in the	Ot .			
	(other than for lighting); electric collection	03.5			
	irons; foundry moulds and foundry cores, all	res, all			
UCAR	MR 1195	Registered	004/25		
Country: Zimbabwe	Owner: Union Carbide Corporation Classes: 9	Donation	96		
		9/28/89.	מזוור זררטנמלת		
	Goods: Electric dry cells, electric batteries; electrodes,				
	anodes, connecting pins for electrodes and anodes; electric welding apparatus (not	and t			
	machines); carbons for electric purposes (other	es (other			
	than for lighting); electric soldering irons; foundry moulds and foundry cores, all made of	ons; made of			
	carbon or of graphite.	זוומטכ 10			

Thursday November 05 1999							
		<b>Trademark List</b>	List		:		Page: 47
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal First Use Date Date	First Use Date
UCAR (STYLIZED)	MR	1196	Pending	97/703816			
Country: Russian Federation	Owner: Union Carbide Corporation	orporation		18-Mar-1997			
	A mant: SON 17 Saintant	•					

Agent: SOJUZ Sojuzpatent

Classes: 1 9 Remarks:

Goods: Manufactured or processed carbon and graphite materials, namely, anodes, electrodes, cathodes, specialties, flexible graphite and powders; processed refractory materials, namely bricks, pastes, cements and thermocouple protection tubes; water spray-cooled systems and furnace operating systems for electric arc melting furnaces; graphite dies, namely specialty graphite for casting applications such as molds

# INTELLECTUAL PROPERTY SECURITY AGREEMENT

INTELLECTUAL PROPERTY SECURITY AGREEMENT dated as of April 22, 1998, as amended and restated as of November 10, 1998, made by UCAR INTERNATIONAL INC., Delaware corporation ("UCAR"), UCAR GLOBAL ENTERPRISES INC., a Delaware corporation (the "Borrower"), and the U.S. Subsidiaries (the "Subsidiary Grantors", and together with UCAR and the Borrower, the "Grantors") in favor of THE CHASE MANHATTAN BANK, a New York banking corporation, as collateral agent for the Secured Parties. Reference is made to (i) the Credit Agreement dated as of October 19, 1995, as amended and restated as of March 19, 1997 and November 10, 1998 (as the same may be amended, supplemented or otherwise modified from time to time, the "Existing Credit Agreement"), among UCAR, the Borrower, the Subsidiary Borrowers party thereto, the Lenders party thereto, the Fronting Banks party thereto and The Chase Manhattan Bank, as administrative agent and collateral agent and (ii) the Credit Agreement dated as of November 10, 1998, among UCAR, the Borrower, UCAR S.A., the Lenders party thereto, The Chase Manhattan Bank, as administrative agent and collateral agent, Credit Suisse First Boston, as syndication agent, and Morgan Guaranty Trust Company of New York, as syndication agent (as the same may be amended, supplemented or otherwise modified from time to time, the "Tranche C Facility Credit Agreement", and together with the Existing Credit Agreement, the "Credit Agreements").

The Lenders and the Fronting Banks, respectively, have agreed to make Loans to the Credit Parties and to issue Letters of Credit for the account of the Credit Parties, pursuant to, and upon the terms and subject to the conditions specified in, the Credit Agreements.

The obligations of the Lenders to make Loans and of the Fronting Banks to issue Letters of Credit under the Credit Agreements are conditioned upon, among other things, the execution and delivery by the Grantors of an intellectual property security agreement in the form hereof to secure the due and punctual payment of, with respect to each Grantor, its obligations as obligor or guarantor in respect of (i) the unpaid principal of and premium, if any, and interest (including interest accruing at the then applicable rate provided in the Existing Credit Agreement after the maturity of the Loans thereunder and interest accruing at the then applicable rate provided in the Existing Credit Agreement after the filing of any petition in bankruptcy, or the commencement of any insolvency, reorganization or like proceeding, relating to any Credit Party thereunder whether or not a claim for post-filing or post-petition interest is allowed in such proceeding) on the Loans made under the Existing Credit Agreement, when and as due, whether at maturity, by acceleration, upon one or more dates set for prepayment or otherwise, (ii) the unpaid principal of and premium, if any, and interest (including interest accruing at the then applicable rate provided in the Tranche C Facility Credit Agreement after the maturity of the Loans

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thereunder and interest accruing at the applicable rate provided in the Tranche C Facility Credit Agreement after the filing of any petition in bankruptcy, or the commencement of any insolvency, reorganization or like proceeding, relating to any Credit Party thereunder whether or not a claim for post-filing or post-petition interest is allowed in such proceeding) on the Loans made under the Tranche C Facility Credit Agreement, when and as due, whether at maturity, by acceleration, upon one or more dates set for prepayment or otherwise, (iii) each payment required to be made by any Credit Party under the Existing Credit Agreement, when and as due, including payments in respect of reimbursements of L/C Disbursements, interest thereon and obligations to provide cash collateral, (iv) each payment required to be made by any Credit Party under the Tranche C Facility Credit Agreement, when and as due, and (v) all other obligations and liabilities of every nature of the Credit Parties under the Credit Agreements from time to time owed to the Secured Parties or any of them, whether direct or indirect, absolute or contingent, due or to become due, or now existing or hereafter incurred (including monetary obligations incurred during the pendency of any bankruptcy, insolvency, receivership or other similar proceeding, regardless of whether allowed or allowable in such proceeding), which may arise under, out of, or in connection with, the Existing Credit Agreement, the Tranche C Facility Credit Agreement, any Guarantee Agreement, any Security Document or any other Loan Document and any obligation of the Borrower or any Credit Party under either of the Credit Agreements to a Lender under either Credit Agreement pursuant to an Interest/Exchange Rate Protection Agreement or under any other document made, delivered or given in connection with any of the foregoing, in each case whether on account of principal, interest, reimbursement obligations, fees, indemnities, costs, expenses or otherwise (including all fees and disbursements of counsel to the Collateral Agent or to the Secured Parties that are required to be paid by the Borrower or any Credit Party pursuant to the terms of the Existing Credit Agreement, the Tranche C Facility Credit Agreement, any Guarantee Agreement, any Security Document, any other Loan Document or any Interest/Exchange Rate Protection Agreement with a Lender (all the foregoing obligations collectively, the "Obligations").

Accordingly, the Grantors and the Collateral Agent, on behalf of itself and each other Secured Party (and each of their successors and assigns), hereby agree as follows:

## ARTICLE I

### <u>Definitions</u>

SECTION 1.01. <u>Definition of Terms Used Herein</u>. All capitalized terms used but not defined herein shall have the meanings assigned to such terms in the Credit Agreements.

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SECTION 1.02. <u>Definition of Certain Terms Used Herein</u>. As used herein, the following terms shall have the following meanings:

"Agreement" shall mean this Intellectual Property Security Agreement.

"Collateral" shall mean, with respect to each Grantor, all of the following, whether now owned or hereafter acquired by such Grantor: (a) Patents, including all granted Patents, recordings and pending applications, including those listed on Schedule I attached hereto, (b) Trademarks, including all registered Trademarks, registrations, recordings, and pending applications, including those listed on Schedule II attached hereto, (c) Copyrights, including all registered Copyrights, registrations, recordings, supplemental registrations and pending applications, including those listed on Schedule III attached hereto, (d) Licenses, including those listed on Schedule IV hereto, (e) General Intangibles, and (f) all products and Proceeds (including insurance proceeds) of, and additions, improvements and accessions to, and books and records describing or used in connection with, any and all of the property described above.

"Copyrights" shall mean, with respect to each Grantor, all of the following now or hereafter owned by such Grantor:
(i) all copyright rights in any work subject to the copyright laws of the United States or any other country, whether as author, assignee, transferee or otherwise, and (ii) all registrations and applications for registration of any such copyright in the United States or any other country, including registrations, recordings, supplemental registrations and pending applications for registration in the United States Copyright Office.

"Copyright License" shall mean, with respect to each Grantor, any written agreement, now or hereafter in effect, granting any right to any third party under any Copyright now or hereafter owned by such Grantor or which such Grantor otherwise has the right to license, or granting any right to such Grantor under any Copyright now or hereafter owned by any third party, and all rights of such Grantor under any such agreement.

"General Intangibles" shall mean, with respect to each Grantor, all intangible, intellectual or other similar property of such Grantor of any kind or nature now owned or hereafter acquired by such Grantor, including inventions, designs, Patents, Copyrights, Licenses, Trademarks, trade secrets, confidential or proprietary technical and business information, know-how, show-how or other data or information, software and databases and all embodiments or fixations thereof and related documentation, registrations, franchises, and all other intellectual or other similar property rights not otherwise described above.

"Indemnitee" shall mean the Collateral Agent, the Secured Parties and their respective officers, directors, trustees, affiliates and controlling persons.

"<u>License</u>" shall mean, with respect to each Grantor, any Patent License, Trademark License, Copyright License or other license or sublicense as to which such Grantor is a party (other

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than those license agreements which by their terms prohibit assignment or a grant of a security interest by such Grantor as licensee thereunder).

"Patent License" shall mean, with respect to each Grantor, any written agreement, now or hereafter in effect, granting to any third party any right to make, use or sell any invention on which a Patent, now or hereafter owned by such Grantor or which such Grantor otherwise has the right to license, is in existence, or granting to such Grantor any right to make, use or sell any invention on which a Patent, now or hereafter owned by any third party, is in existence, and all rights of such Grantor under any such agreement.

"Patents" shall mean, with respect to each Grantor, all the following now or hereafter owned by such Grantor: (a) all letters patent of the United States or any other country, including patents, design patents or utility models, all registrations and recordings thereof, and all applications for letters patent of the United States or any other country, including registrations, recordings and pending applications in the United States Patent and Trademark Office or any similar offices in any other country, and (b) all reissues, continuations, divisions, continuations—in—part, renewals or extensions thereof, and the inventions disclosed or claimed therein, including the right to make, use and/or sell the inventions disclosed or claimed therein.

"Proceeds" shall mean, with respect to each Grantor, any consideration received from the sale, exchange, license, lease or other disposition of any asset or property that constitutes Collateral owned by such Grantor, any value received as a consequence of the possession of any such Collateral and any payment received from any insurer or other person or entity as a result of the destruction, loss, theft or other involuntary conversion of whatever nature of any asset or property that constitutes such Collateral, any claim of such Grantor against third parties for (and the right to sue and recover for and the rights to damages or profits due or accrued arising out of or in connection with) (a) past, present or future infringement of any Patent now or hereafter owned by such Grantor or licensed under a Patent License, (b) past, present or future infringement or dilution of any Trademark now or hereafter owned by such Grantor or licensed under a Trademark License or injury to the goodwill associated with or symbolized by any Trademark now or hereafter owned by such Grantor, (c) past, present or future breach of any License, (d) past, present or future infringement of any Copyright now or hereafter owned by such Grantor or licensed under a Copyright License, and (e) any and all other amounts from time to time paid or payable under or in connection with any of such Collateral.

"Trademark License" shall mean, with respect to each Grantor, any written agreement, now or hereafter in effect, granting to any third party any right to use any Trademark now or hereafter owned by such Grantor or that such Grantor otherwise has the right to license, or granting to such Grantor any right to use any Trademark now or hereafter owned by any third party, and all rights of such Grantor under any such agreement.

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"Trademarks" shall mean, with respect to each Grantor, all of the following now or hereafter owned by such Grantor: (a) all trademarks, service marks, trade names, corporate names, company names, business names, fictitious business names, trade styles, trade dress, logos, other source or business identifiers, prints and labels on which any of the foregoing have appeared or appear, and all designs and general intangibles of like nature, now existing or hereafter adopted or acquired, all registrations and recordings thereof, and all registration and recording applications filed in connection therewith, including registrations, recordings and applications in the United States Patent and Trademark Office, any State of the United States or any similar offices in any other country or any political subdivision thereof, and all extensions or renewals thereof, and (b) all goodwill associated therewith or symbolized thereby, and (c) all other assets, rights and interests that uniquely reflect or embody such goodwill.

"<u>U.S. Subsidiaries</u>" shall mean the Subsidiaries (as defined in the Credit Agreements) incorporated or otherwise organized in the United States of America.

SECTION 1.03. <u>Rules of Interpretation</u>. The rules of interpretation specified in Section 1.02 of the Credit Agreements shall be applicable to this Agreement.

#### ARTICLE II

## Security Interest

SECTION 2.01. Security Interest. As security for the payment or performance, as the case may be, of the Obligations, each Grantor hereby creates, mortgages, pledges, hypothecates and transfers to the Collateral Agent, its successors and assigns, for the benefit of the Secured Parties, and hereby grants to the Collateral Agent, its successors and assigns, for the ratable benefit of the Secured Parties, a continuing first priority security interest in all such Grantors' right, title and interest in, to and under the Collateral subject to liens permitted under Section 6.02 of the Credit Agreements (the "Security Interest"). Without limiting the foregoing, the Collateral Agent is hereby authorized to file one or more financing statements, continuation statements, filings with the United States Patent and Trademark Office or United States Copyright Office (or similar office in any other country), or any other documents for the purpose of perfecting, confirming, continuing, enforcing or protecting the Security Interest granted by such Grantor, without the signature of such Grantor, naming such Grantor as debtor and the Collateral Agent as secured party.

Notwithstanding any other provision of this Agreement to the contrary, the Collateral shall not include any License which by its terms or the terms governing it prohibits assignment thereof or the grant of a security interest therein; provided that such term or terms are typical or customary in connection with the document or instrument to which they relate.

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Each Grantor agrees at all times to keep accurate and complete, in all material respects, accounting records with respect to the Collateral and, on and after the occurrence and during the continuance of a Default, a record of all payments and Proceeds received in respect thereof.

SECTION 2.02. Further Assurances. Each Grantor agrees, at its own cost and expense, to promptly execute, acknowledge, deliver and cause to be duly filed all such further instruments and documents and take all such actions as the Collateral Agent may from time to time reasonably request for the better assuring, preserving and perfecting of the Security Interest and the rights and remedies created hereby, including the payment of any fees and taxes required in connection with the execution and delivery of this Agreement, the granting of the Security Interest created hereby, the filing of any financing statements or other documents (including filings with the United statements or other documents (including filings with the United States Patent and Trademark Office and the United States Copyright Office or similar offices in any other country) in connection herewith, and the execution and delivery of any document required to supplement this Agreement with respect to any Patents, Trademarks and/or Copyrights applied for, acquired, registered (or for which registration applications are filed) or issued after the date hereof. If any amount payable under or in connection with any of the Collateral shall be or become evidenced by any promissory note or other instrument, upon the request of the Collateral Agent, such note or instrument shall (to the extent not previously pledged and delivered pursuant to the Pledge Agreements) be immediately pledged and delivered to the Collateral Agent, duly endorsed in a manner satisfactory to the Collateral Agent. Each Grantor agrees promptly to notify the Collateral Agent if any material portion of the Collateral is canceled or overturned, opposed, misappropriated, injured, infringed, lost (other than due to expiration of any issued Patent) or, if applicable, diluted.

Inspection and Verification. Without SECTION 2.03. limiting the scope of Section 5.07 of the Credit Agreements, the Collateral Agent and such representatives as the Collateral Agent may reasonably designate shall have the right to inspect, at any reasonable times or times, any of the Collateral, all records related thereto (and to make extracts and copies from such records) and the premises upon which any of the Collateral is located, to discuss any Grantor's affairs with the officers of such Grantor and its independent accountants and to verify under reasonable procedures the validity, amount, quality, quantity, value, conditions, and status of or any other matter relating to such Collateral, including, in the case of Collateral in the possession of any third party (with, except after an Event of Default shall have occurred and during the continuance thereof, the consent of such Grantor, which consent shall not be unreasonably withheld), by contacting such person possessing such Collateral for the purpose of making such a verification. The Collateral Agent shall have the absolute right to share any information it gains from such inspection or verification with any or all of the Secured Parties.

SECTION 2.04. <u>Taxes: Encumbrances</u>. At its option, the Collateral Agent may discharge past due taxes, assessments, charges, fees, liens, security interests or other encumbrances at [NYCORP;697656.4:4336D:11/05/1998--2:37p]

any time levied or placed on any of the Collateral and not permitted under this Agreement or other Loan Documents, and may pay for the maintenance and preservation of any of the Collateral to the extent any Grantor fails to do so to the extent required by this Agreement or the other Loan Documents, and such Grantor agrees to reimburse the Collateral Agent on demand for any payment made or any expense incurred by the Collateral Agent pursuant to the foregoing authorization; provided, however, that nothing in this Section 2.04 shall be interpreted as excusing any Grantor from the performance of, or imposing any obligation on the Collateral Agent or any other Secured Party to cure or perform, any covenants or other promises of any Grantor with respect to taxes, assessments, charges, fees, liens, security interests or other encumbrances and maintenance as set forth herein or in the other Loan Documents.

SECTION 2.05. No Assumption of Liability. The Security Interest is granted as security only and shall not subject any Secured Party to, or in any way alter or modify, any obligation or liability of any Grantor with respect to or arising out of any of the Collateral.

#### ARTICLE III

## Representations and Warranties

Representations and Warranties. Each Grantor represents and warrants, as to itself and the Collateral in which the Security Interest is created by it hereunder, that:

SECTION 3.01. <u>Validity of Patents, Trademarks and Copyrights</u>. Each of the Patents, Trademarks and Copyrights is subsisting and has not been adjudged invalid or unenforceable, in whole or in part, except as could not reasonably be expected to have a Material Adverse Effect.

SECTION 3.02. <u>Title and Authority</u>. Each Grantor has rights in and good title to the Collateral shown on the schedules hereto as being owned by it and has full corporate power and authority to grant to the Collateral Agent (for the benefit of the Secured Parties) the Security Interest in the Collateral pursuant hereto and to execute, deliver and perform its obligations in accordance with the terms of this Agreement, without the consent or approval of any other person other than any consent or approval that has been obtained, except, in each case, as could not reasonably be expected to have a Material Adverse Effect.

SECTION 3.03. Filings. (a) Fully executed financing statements containing a description of the Collateral shall promptly following the Closing Date be filed of record in every governmental, municipal or other office in every jurisdiction located within the United States and its respective territories and possessions or such other analogous documents in other countries as are necessary to publish notice of and protect the validity of and to establish a valid and perfected security interest in favor of the Collateral Agent (for the benefit of the Secured Parties) in respect of the Collateral in which a security interest may be perfected by filing a financing statement or

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analogous document in the United States and its political subdivisions, territories and possessions pursuant to the Uniform Commercial Code or other applicable law in such jurisdictions or pursuant to applicable law in other countries, and no further or subsequent filing, refiling, recording, rerecording, registration or reregistration is necessary in any such jurisdiction, except as provided under applicable law with respect to the filing of continuation statements or other documents of similar effect, except as contemplated by paragraph (b) below and filings with respect to after-acquired Collateral, with respect to which all necessary actions will be promptly taken subsequent to the acquisition of such after-acquired Collateral.

Each Grantor shall ensure and warrants that fully executed security agreements in the form hereof and containing a description of the Collateral shall have been received and recorded within three months after the execution of this Agreement with respect to United States Patents and United States registered Trademarks (and Trademarks for which United States registration applications are pending) and within one month after the execution of this Agreement with respect to United States registered Copyrights by the United States Patent and Trademark Office and the United States Copyright Office pursuant to 35 U.S.C. § 261, 15 U.S.C. § 1060 or 17 U.S.C. § 205 and the regulations thereunder, as applicable, and otherwise as may be required pursuant to the laws of any other country or any political subdivision thereof, to protect the validity and first priority of and to perfect a valid first priority security interest (subject only to Liens permitted by Section 6.02 of the Credit Agreements) in favor of the Collateral Agent (for the benefit of the Secured Parties) in respect of the Collateral in which a security interest may be perfected by filing in the United States and its political subdivisions, territories and possessions, and no further or subsequent filing, refiling, recording, rerecording, registration or reregistration is necessary in any such jurisdiction, except as provided under applicable law with respect to the filing of continuation statements (other than such actions as are necessary to perfect the Collateral Agent's first priority security interest with respect to any Collateral (or registration or application for registration thereof) acquired or developed after the date hereof).

SECTION 3.04. Validity of Security Interests. Agreement is effective to create in favor of the Collateral Agent, for the ratable benefit of the Secured Parties, a legal, valid and enforceable security interest in the Collateral, and, when financing statements in appropriate form are filed in the offices specified on Schedule VI hereto and this Agreement is filed in the United States Patent and Trademark Office and the United States Copyright Office, this Agreement will constitute a duly perfected Lien on, and security interest in, all right, title and interest of the Grantors in such Collateral and, to the extent contemplated therein and subject to § 9-306 of the UCC, the proceeds thereof, in each case prior and superior in right to any other person (it being understood that subsequent recordings in the United States Patent and Trademark Office and the United States Copyright Office may be necessary to perfect a lien on registered trademarks, trademark applications and copyrights acquired by the Grantors after the date hereof), other than with respect to the rights of

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persons pursuant to Liens expressly permitted by Section 6.02 of the Credit Agreements.

SECTION 3.05. <u>Information Regarding Names and Locations</u>. Each Grantor has disclosed in writing to the Collateral Agent on Schedule IV any material trade names used to identify it in its business or in the ownership of its properties during the past five years.

SECTION 3.06. Absence of Other Liens. The Collateral is owned by the Grantors free and clear of any Lien of any nature whatsoever (except for Liens expressly permitted by Section 6.02 of the Credit Agreements or hereby and any liens of licenses listed on Schedule V). Other than as contemplated hereby and by the other Loan Documents, and except as permitted therein, the Grantors have not filed (a) any financing statement or analogous document under the Uniform Commercial Code, (b) any assignment in which any Grantor assigns the Collateral, any security agreement or any similar instrument covering any Collateral with the United States Patent and Trademark Office, the United States Copyright Office or any similar office in any other country of political subdivision thereof and (c) any assignment in which any Grantor assigns the Collateral or any security agreement or similar instrument covering any Collateral with any foreign governmental, municipal or other office.

#### ARTICLE IV

#### Covenants

SECTION 4.01. Covenants Regarding Fatent, Trademark and Copyright Collateral. (a) Each Grantor (either itself or through licensees) will, for each Patent, not do any act, or omit to do any act, whereby any Patent that is material to the conduct of the Grantors' businesses, taken as a whole, may become invalidated or dedicated to the public, and shall continue to mark, to the extent consistent with past practices and good business judgment, any products covered by a material Patent with the relevant patent number as necessary and sufficient to establish and preserve such Grantor's material rights under applicable patent laws.

(b) Each Grantor (either itself or through its licensees or its sublicensees) will, for each Trademark material to the conduct of the Grantors' businesses, taken as a whole, to the extent consistent with past practices and good business judgment, (i) maintain such Trademark in full force free from any material claim of abandonment or invalidity for nonuse, (ii) maintain the quality of products and services offered under such Trademark to the extent that the failure to do so would result in a Material Adverse Effect, (iii) display such Trademark with notice of federal or foreign registration to the extent necessary and sufficient to establish and preserve such Grantor's material rights under applicable law and (iv) not knowingly use or knowingly permit the use of such Trademark in violation of any material third-party rights.

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- (c) Each Grantor (either itself or through licensees) will, for each work covered by a material Copyright, to the extent consistent with past practices and good business judgment, continue to publish, reproduce, display, adopt and distribute the work with appropriate copyright notice as necessary and sufficient to establish and preserve such Grantor's material rights under applicable copyright laws.
- immediately if it knows or has reason to know that any Patent, Trademark or Copyright material to the conduct of the Grantors' businesses, taken as a whole, may become abandoned, lost or dedicated to the public, or of any adverse determination or development (including the institution of, or any such determination or development in, any proceeding in the United States Patent and Trademark Office, United States Copyright Office or any court or similar office of any country) regarding such Grantor's ownership of any such Patent, Trademark or Copyright, its right to register the same, or to keep and maintain the same.
- In no event shall any Grantor, either itself or through any agent, employee, licensee or designee, file an application for any Patent, Trademark or Copyright (or for the registration of any Trademark or Copyright) with the United States Patent and Trademark Office, United States Copyright Office or any office or agency in any political subdivision of the United States or in any other country or any political subdivision thereof, unless it promptly informs the Collateral Agent, and, upon request of the Collateral Agent, executes and delivers any and all agreements, instruments, documents and papers as the Collateral Agent may reasonably request to evidence (and, in the case of applications for Trademarks with the United States Patent and Trademark Office, perfect) the Collateral Agent's security interest in such Patent, Trademark or Copyright of such Grantor and the good will and general intangibles of such Grantor relating thereto or represented thereby, and such Grantor hereby appoints the Collateral Agent as its attorney-in-fact to execute and file such writings for the foregoing purposes, all acts of such attorney being hereby ratified and confirmed; such power, being coupled with an interest, is irrevocable until the Obligations are paid in full.
- Each Grantor will take all necessary steps that are consistent with the practice in any proceeding before the United States Patent and Trademark Office, United States Copyright Office or any office or agency in any political subdivision of the United States or in any other country or any political subdivision thereof, to maintain and pursue each material application (and to obtain the relevant grant or registration) relating to the Patents, Trademarks and/or Copyrights which are material to the Grantors' businesses, taken as a whole, to maintain each issued Patent and each registration of the Trademarks and Copyrights that is material to the conduct of the Grantors' businesses, taken as a whole, including timely filings of applications for renewal, affidavits of use, affidavits of incontestability and payment of maintenance fees, and, if consistent with good business judgment, to initiate opposition, interference and cancelation proceedings against third parties.

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(g) In the event that any Collateral consisting of a Patent, Trademark or Copyright material to the conduct of the Grantors' businesses, taken as a whole, is believed by the Grantor that has created the Security Interest in such Collateral pursuant hereto to have been infringed, misappropriated or diluted by a third party in any material respect, such Grantor shall notify the Collateral Agent promptly after it learns thereof and shall, if consistent with good business judgment, promptly sue for infringement, misappropriation, or dilution and to recover any and all damages for such infringement, misappropriation or dilution, and take such other actions as are appropriate under the circumstances to protect such Collateral.

SECTION 4.02. <u>Protection of Security</u>. Each Grantor shall, at its own cost and expense, take any and all reasonable actions necessary to defend title to the Collateral against all persons, to properly maintain, protect and preserve the Collateral and to defend the Security Interest of the Collateral Agent in the Collateral and the priority thereof against any Lien not permitted under the Credit Agreements in each case, except as otherwise permitted by the Credit Agreements or this Agreement.

SECTION 4.03. <u>Continuing Obligations of the Grantors</u>. Each Grantor shall remain liable to observe and perform all the conditions and obligations to be observed and performed by it under each License, contract, agreement, interest or obligation relating to the Collateral, all in accordance with the terms and conditions thereof, to the extent consistent with good business practice. Without limiting the foregoing, the Collateral Agent shall have no obligation or liability under any License by reason of or arising out of this Agreement or the granting or the assignment to the Collateral Agent of the Security Interest or the receipt by the Collateral Agent of any payment related to any License pursuant hereto, nor shall the Collateral Agent be required or obligated in any manner to perform or fulfill any of the obligations of any Grantor under or pursuant to any License, or to make any payment, or to make any inquiry as to the nature or the sufficiency of any payment received by it or the sufficiency of any performance by any party under any License, or to present or file any claim, or to take any action to collect or enforce any performance of the payment of any amounts that may have been assigned to it or to which it may be entitled at any time or times.

SECTION 4.04. <u>Use and Disposition of Collateral</u>. A Grantor shall not (i) make or permit to be made an assignment, pledge or hypothecation of the Collateral, and shall grant no other security interest in the Collateral (other than pursuant hereto or except for any Permitted Liens) or (ii) make or permit to be made any transfer of the Collateral, and shall remain at all times in possession thereof other than transfers to the Collateral Agent pursuant to the provisions hereof; notwithstanding the foregoing, a Grantor may use and dispose of the Collateral in any lawful manner permitted by the provisions of this Agreement, the Credit Agreements or any other Loan Document, unless the Collateral Agent shall, after an Event of Default shall have occurred and during the continuance thereof, notify the Borrower not to sell, convey, lease, assign, transfer or otherwise dispose of any Collateral except with respect to any transfer between the

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Borrower or a Wholly Owned Subsidiary that is a Grantor and the Borrower or a Wholly Owned Subsidiary that is a Grantor.

- SECTION 4.05. Locations of Collateral; Place of Business. (a) Each Grantor agrees, at such time or times as the Collateral Agent may reasonably request, promptly to prepare and deliver to the Collateral Agent a duly certified schedule or schedules in form reasonably satisfactory to the Collateral Agent, showing the identity, amount and location (to the extent practicable) of any and all Collateral.
- (b) Each Grantor agrees not to change, or permit to be changed, the location of its chief executive office or chief place of business or the name or names used to identify it in its business or in the ownership of its properties unless all filings under the Uniform Commercial Code or under other applicable laws that are required to be made with respect to the Collateral have been made and the Collateral Agent has a valid, legal and perfected first priority security interest in the Collateral, subject to no liens, other than Liens permitted by Section 6.02 of the Credit Agreements and any liens or licenses listed on Schedule V, and prior notice thereof has been given to the Collateral Agent along with copies of all such filings to be made.
- SECTION 4.06. <u>Future Rights</u>. (a) If, before the time that all Obligations shall have been paid in full, no Letters of Credit are outstanding and the Secured Parties no longer have Commitments under the Credit Agreements, any Grantor shall obtain rights to any material asset or item that may be considered Collateral, the provisions of Section 2.01 shall automatically apply thereto and each Grantor shall give to the Collateral Agent prompt notice thereof in writing.
- (b) With respect to any such material asset or item that may be considered Collateral as set forth in paragraph (a) above, each Grantor shall follow the procedures set forth in Section 3.03, as applicable, to ensure that the Collateral Agent's valid first priority security interest therein is perfected (subject only to Liens permitted by Section 6.02 the Credit Agreements).
- SECTION 4.07 <u>Assignment of Licenses</u>. Upon and during the continuance of an Event of Default and at the reasonable request of the Collateral Agent, each Grantor shall use its reasonable efforts to obtain all requisite consents or approvals by the licensor of each Copyright License, Patent License or Trademark License to effect the assignment of all of the Grantors' rights, title and interest thereunder to the Collateral Agent or its designee.
- SECTION 4.08. Collateral Agent's Liabilities and Expenses; Indemnification. (a) Notwithstanding anything to the contrary provided herein, the Collateral Agent assumes no liabilities with respect to any claims regarding each Grantor's ownership (or purported ownership) of, or rights or obligations (or purported rights or obligations) arising from, the Collateral or any use (or actual or alleged misuse), license or sublicense thereof by any Grantor or any licensee of such Grantor, whether arising out of any past, current or future event, circumstance,

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act or omission or otherwise, or any claim, suit, loss, damage, expense or liability of any kind or nature arising out of or in connection with the Collateral or the production, marketing, delivery, sale or provision of goods or services under or in connection with any of the Collateral. As between the Secured Parties and the Grantors, all of such liabilities shall be borne exclusively by the Grantors.

- (b) Each Grantor hereby agrees to pay all expenses of the Collateral Agent and to indemnify the Collateral Agent with respect to any and all losses, claims, damages, liabilities and related expenses in respect of this Agreement or the Collateral in each case to the extent the Borrower is required to do so pursuant to Section 9.05 of the Credit Agreements.
- (c) Any amounts payable as provided hereunder shall be additional Obligations secured hereby and by the other Security Documents. Without prejudice to the survival of any other agreements contained herein, all indemnification and reimbursement obligations contained herein shall survive the payment in full of the principal and interest under the Credit Agreements, the expiration of the Letters of Credit and the termination of the Commitments or this Agreement.

#### ARTICLE V

## Remedies

SECTION 5.01. Power of Attorney. Upon the occurrence and during the continuance of any Event of Default, subject to prior written notice to the Borrower, the Collateral Agent shall have the right, as the true and lawful attorney-in-fact of the Grantors, with power of substitution for the Grantors and in the Grantors' names, the Collateral Agent's name or otherwise, for the use and benefit of the Secured Parties (a) upon prior notice from the Collateral Agent, to receive, endorse, assign and/or deliver any and all notes, acceptances, checks, drafts, money orders or other evidences of payment relating to the Collateral or any part thereof; (b) to demand, collect, receive payment of, give receipt for and give discharges and releases of all or any of the Collateral; (c) to sign the name of any Grantor on any invoice relating to any of the Collateral; (d) to commence and prosecute any and all suits, actions or proceedings at law or in equity in any court of competent jurisdiction to collect or otherwise realize on all or any of the Collateral or to enforce any rights in respect of any Collateral; (e) to settle, compromise, compound, adjust or defend any actions, suits or proceedings relating to or pertaining to all or any of the Collateral; (f) to license or, to the extent permitted by any applicable law, sublicense, whether general, special or otherwise, and whether on an exclusive or nonexclusive basis, any of the Collateral throughout the world for such term or terms, on such conditions, and in such manner, as the Collateral Agent shall determine (other than in violation of any then existing licensing arrangements to the extent that waivers or other adequate provision cannot be secured therefor); and (g) generally to use, sell, assign, transfer, pledge, make any agreement with respect to or otherwise deal with all or any of the Collateral, and to do all other acts and things necessary to carry

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out the purposes of this Agreement, as fully and completely as though the Collateral Agent were the absolute owner of the Collateral for all purposes; provided, however, that except as provided for by law or the Uniform Commercial Code as in effect in the State of New York or its equivalent in other jurisdictions, nothing herein contained shall be construed as requiring or obligating the Collateral Agent to make any commitment or to make any inquiry as to the nature or sufficiency of any payment received by the Collateral Agent, or to present or file any claim or notice, or to take any action with respect to the Collateral or any part thereof or the moneys due or to become due in respect thereof or any property covered thereby, and no action taken by the Collateral Agent or omitted to be taken with respect to the Collateral or any part thereof shall give rise to any defense, counterclaim or offset in favor of any Grantor or to any claim or action against the Collateral Agent. It is understood and agreed that the appointment of the Collateral Agent as the attorney-infact of the Grantors for the purposes set forth above in this Section 5.01 is coupled with an interest and is irrevocable. provisions of this Section 5.01 shall in no event relieve the Grantors of any of their obligations hereunder or under the Credit Agreements or any other Loan Document with respect to the Collateral or any part thereof or impose any obligation on the Collateral Agent or the Secured Parties to proceed in any particular manner with respect to the Collateral or any part thereof, or in any way limit the exercise by the Collateral Agent or any Secured Party of any other or further right that it may have on the date of this Agreement or hereafter, whether hereunder or by law or by the Security Agreement, or otherwise.

SECTION 5.02. Other Remedies upon Default. Upon the occurrence and during the continuance of an Event of Default, each Grantor expressly agrees that, subject to prior written notice to the Borrower, the Collateral Agent on demand shall have the right to take any or all of the following actions at the same or different times: with or without legal process and with or without previous notice or demand for performance, to take possession of all tangible manifestations or embodiments of the Collateral and documentation relating thereto and all business records, documents, files, prints and labels with respect to the Collateral, and without liability for trespass to enter any premises where such tangible manifestations or embodiments, business records, documents, files, prints and labels with respect to the Collateral may be located for the purpose of taking possession of or removing such tangible manifestations or embodiments, business records, documents, files, prints and labels with respect to the Collateral, and, generally, to exercise any and all rights afforded to a secured party under the Uniform Commercial Code or other law applicable to any part of the Collateral. Subject to and without limiting the generality of the foregoing, each Grantor agrees that the Collateral Agent shall have the right, subject to the mandatory requirements of applicable law, to sell or otherwise dispose of all or any part of the Collateral, at public or private sale or at any broker's board or on any securities exchange, for cash, upon credit or for future delivery as the Collateral Agent shall deem appropriate. The Collateral Agent shall be authorized at any such sale (if it deems it advisable to do so) to restrict the prospective bidders or purchasers to persons who will represent and agree that they are

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purchasing the Collateral for their own account for investment and not with a view to the distribution or sale thereof where the failure to obtain such a representation and agreement could result in a violation of any applicable securities laws, and upon consummation of any such sale the Collateral Agent shall have the right to assign, transfer and deliver to the purchaser or purchasers thereof the Collateral so sold. Each such purchaser at any such sale shall hold the property sold absolutely, free from any claim or right on the part of any Grantor, and each Grantor hereby waives (to the extent permitted by law) all rights of redemption, stay and appraisal that such Grantor now has or may at any time in the future have under any rule of law or statute now existing or hereafter enacted.

The Collateral Agent shall give the Grantors at least 10 days' written notice (which each Grantor agrees is reasonable notice within the meaning of Section 9-504(3) of the Uniform Commercial Code as in effect in the State of New York or its equivalent in other jurisdictions) of the Collateral Agent's intention to make any sale of Collateral. Such notice, in the case of a public sale, shall state the time and place for such sale and, in the case of a sale at a broker's board or on a securities exchange, shall state the board or exchange at which such sale is to be made and the day on which the Collateral, or portion thereof, will first be offered for sale at such board or exchange. Any such public sale shall be held at such time or times within ordinary business hours and at such place or places as the Collateral Agent may fix and state in the notice (if any) of such sale. At any such sale, the Collateral, or portion thereof, to be sold may be sold in one lot as an entirety or in separate parcels, as the Collateral Agent may (in its sole and absolute discretion) determine. The Collateral Agent shall not be obligated to make any sale of any Collateral if it shall determine not to do so, regardless of the fact that notice of sale of such Collateral shall have been given. The Collateral Agent may, without notice or publication, adjourn any public or private sale or cause the same to be adjourned from time to time by announcement at the time and place fixed for sale, and such sale may, without further notice, be made at the time and place to which the same was so adjourned. In case any sale of all or any part of the Collateral is made on credit or for future delivery, the Collateral so sold may be retained by the Collateral Agent until the sale price is paid by the purchaser or purchasers thereof, but the Collateral Agent shall not incur any liability in case any such purchaser or purchasers shall fail to take up and pay for the Collateral so sold and, in case of any such failure, such Collateral may be sold again upon like notice to the Grantors. At any public sale made pursuant to this Section 5.02, the Collateral Agent or any Secured Party may bid for or purchase, free from any right of redemption, stay, valuation or appraisal on the part of any Grantor (all said rights being also hereby waived and released to the extent permitted by law), the Collateral or any part thereof offered for sale and may make payment on account thereof by using any claim then due and payable to the Collateral Agent or any Secured Party from any Grantor as a credit against the purchase price, and the Collateral Agent or any Secured Party may, upon compliance with the terms of sale, hold, retain and dispose of such property without further accountability to such Grantor therefor. As an alternative to exercising the power of

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sale herein conferred upon it, the Collateral Agent may proceed by a suit or suits at law or in equity to foreclose this Agreement and to sell the Collateral or any portion thereof pursuant to a judgment or decree of a court or courts having competent jurisdiction or pursuant to a proceeding by a court-appointed receiver.

SECTION 5.03. <u>Application of Proceeds of Sale</u>. The proceeds of any sale of Collateral, as well as any Collateral consisting of cash, shall be applied by the Collateral Agent as follows:

First, to the payment of the reasonable costs and expenses of the Collateral Agent as set forth in Sections 5.01 and 5.02 and in the Credit Agreements;

Second, to the payment of all amounts of the Obligations owed to the Secured Parties in respect of Loans made by them and outstanding and amounts owing in respect of any L/C Disbursement or Letter of Credit or under any Interest/Exchange Rate Protection Agreement, pro rata as among the Secured Parties in accordance with the amount of such Obligations owed them;

Third, to the payment and discharge in full of the Obligations (other than those referred to above), pro rata as among the Secured Parties in accordance with the amount of such Obligations owed to them; and

Fourth, after payment in full of all Obligations, to the applicable Grantor, or its successor or assign thereof, or to whomsoever may be lawfully entitled to receive the same or as a court of competent jurisdiction may direct, any Collateral then remaining.

The Collateral Agent shall have absolute discretion as to the time of application of any such proceeds, moneys or balances in accordance with this Agreement. Upon any sale of the Collateral by the Collateral Agent (including pursuant to a power of sale granted by statute or under a judicial proceeding), the receipt of the Collateral Agent or of the officer making the sale shall be a sufficient discharge to the purchaser or purchasers of the Collateral so sold and such purchaser or purchasers shall not be obligated to see to the application of any part of the purchase money paid over to the Collateral Agent or such officer or be answerable in any way for the misapplication thereof.

SECTION 5.04. Grant of License to Use Patent, Trademark and Copyright Collateral. For the purpose of enabling the Collateral Agent to exercise rights and remedies under Article V hereof at such time as the Collateral Agent shall be lawfully entitled to exercise such rights and remedies, each Grantor hereby grants to the Collateral Agent an irrevocable, non-exclusive license (exercisable without payment of royalty or other compensation to such Grantor) to use, license or sublicense any of the Collateral now owned or hereafter acquired by such Grantor, and wherever the same may be located, and including in such license reasonable access to all media in which any of the licensed items may be recorded or stored. The use of such license

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by the Collateral Agent shall be exercised, at the option of the Collateral Agent for any purpose appropriate in connection with the exercise of remedies hereunder, only upon the occurrence and during the continuance of an Event of Default; provided that any license, sublicense or other transaction entered into by the Collateral Agent in accordance herewith shall be binding upon such Grantor notwithstanding any subsequent cure of an Event of Default. The Collateral Agent agrees to apply the net proceeds received from any license as provided in Section 5.03 hereof.

### ARTICLE VI

## <u>Miscellaneous</u>

SECTION 6.01. The Collateral Agent Appointed Attorneyin-Fact. Except as otherwise provided herein, each Grantor hereby appoints the Collateral Agent the attorney-in-fact of such Grantor, effective upon the occurrence and during the continuance of an Event of Default, for the purposes of carrying out the provisions of this Agreement, taking any action and executing any instrument that the Collateral Agent may reasonably deem necessary or advisable to accomplish the purposes hereof, and doing all other acts that such Grantor is obligated to do hereunder. Such appointment is in each case irrevocable and coupled with an interest. Each Grantor hereby ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof in accordance with this Agreement.

SECTION 6.02. <u>Notices</u>. Notices and other communications provided for herein shall be in writing and given (i) in the case of communications and notices to any Credit Party or any Secured Party, as provided in the Credit Agreements and (ii) in the case of communications and notices to any Grantor that is not a Credit Party, as provided in the Subsidiary Guarantee Agreement.

SECTION 6.03. <u>Successors and Assigns</u>. (a) Whenever in this Agreement any of the parties hereto is referred to, such reference shall be deemed to include the permitted successors and assigns of such party, and the terms "Lender", "Fronting Bank" and "Secured Party" shall include each permitted successor and assignee of any Lender, Fronting Bank or Secured Party permitted under Section 9.04 of the Credit Agreements and all covenants, promises and agreements by or on behalf of the Grantors or the Collateral Agent or that are contained in this Agreement shall bind and inure to the benefit of their respective permitted successors and permitted assigns referred to above.

- (b) No Grantor shall assign or delegate any of its rights and duties hereunder.
- (c) The covenants, promises and agreements by the Grantors shall inure to the benefit of each Secured Party and each assignee of any Secured Party permitted under Section 9.04 of the Credit Agreements.

SECTION 6.04. <u>Applicable Law</u>. THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE

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STATE OF NEW YORK, EXCEPT TO THE EXTENT THAT FEDERAL LAW OR LAWS OF ANOTHER STATE OR FOREIGN JURISDICTION MAY APPLY TO PATENTS, TRADEMARKS, COPYRIGHTS, OTHER COLLATERAL OR REMEDIES.

SECTION 6.05. <u>Waivers; Amendment</u>. (a) No failure or delay of the Collateral Agent in exercising any power or right hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any such right or power, or any abandonment or discontinuance of steps to enforce such a right or power, preclude any other right or power. The rights and remedies of the Collateral Agent hereunder and of other Secured Parties under the Loan Documents are cumulative and are not exclusive of any rights or remedies that they would otherwise have. No waiver of any provisions of this Agreement or any other Loan Document or consent to any departure by any Grantor therefrom shall in any event be effective unless the same shall be permitted by paragraph (b) below, and then such waiver or consent shall be effective only in the specific instance and for the purpose for which given. No notice to or demand on any Grantor in any case shall entitle such Grantor to any other or further notice or demand in similar or other circumstances.

(b) Neither this Agreement nor any provision hereof may be waived, amended or modified except pursuant to an agreement or agreements in writing entered into between any Grantor and the Collateral Agent, with the prior written consent of the Required Secured Parties; provided, however, that except as provided herein or in the other Loan Documents, no such agreement shall amend, modify, waive or otherwise affect the rights or duties of the Collateral Agent hereunder without the prior written consent of the Collateral Agent.

SECTION 6.06. <u>Security Interest Absolute</u>. All rights of the Collateral Agent hereunder, the security interests granted hereunder and all obligations of the Grantors hereunder shall be absolute and unconditional.

SECTION 6.07. <u>Survival of Agreement</u>. All covenants, agreements, representations and warranties made by any Grantor herein and in the certificates or other instruments prepared or delivered in connection with or pursuant to this Agreement or any other Loan Document shall be considered to have been relied upon by the Secured Parties and shall survive the making by the Lenders of the Loans, the execution and delivery to the Lenders of the Loan Documents and the issuance by the Fronting Banks of the Letters of Credit regardless of any investigation made by the Secured Parties or on their behalf and shall continue in full force and effect so long as the principal of or any accrued interest on any Loan or L/C Disbursement or any Fee or any other amount payable under or in respect of this Agreement or any other Loan Document is outstanding and unpaid and so long as the Commitments have not been terminated.

SECTION 6.08. <u>Binding Effect; Assignments</u>. This Agreement shall become effective as to any Grantor when a counterpart hereof executed on behalf of such Grantor shall have been delivered to the Collateral Agent, and thereafter shall be binding upon such Grantor and its respective successors and assigns, and shall inure to the benefit of such Grantor and the

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Secured Parties and their respective successors and assigns, except that no Grantor shall have the right to assign its rights hereunder or any interest herein (and any such attempted assignment shall be void) except as expressly contemplated by this Agreement or the other Loan Documents.

SECTION 6.09. <u>Termination; Release</u>. (a) This Agreement and the security interests granted hereby shall terminate when all the Obligations have been indefeasibly paid in full, the Commitments have been terminated and no Letters of Credit are outstanding.

- (b) Upon any sale by any Grantor of any Collateral that is permitted under the Credit Agreements or upon the effectiveness of any written consent to the release of the Security Interest in any Collateral pursuant to Section 9.08 of the Credit Agreements, the Security Interest in such Collateral shall be automatically released.
- (c) In connection with any termination or release pursuant to paragraphs (a) and (b), the Collateral Agent shall execute and deliver to each Grantor, at such Grantor's expense, all Uniform Commercial Code termination statements, documents in order to terminate any United States Patent and Trademark Office filings and similar documents that such Grantor shall reasonably request to evidence such termination or release. Any execution and delivery of termination statements or documents pursuant to this Section 6.09 shall be without recourse to or warranty by the Collateral Agent.

SECTION 6.10. WAIVER OF JURY TRIAL. EACH PARTY HERETO HEREBY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT OR ANY OF THE OTHER LOAN DOCUMENTS. EACH PARTY HERETO (A) CERTIFIES THAT NO REPRESENTATIVE, AGENT OR ATTORNEY OF ANY OTHER PARTY HAS REPRESENTED, EXPRESSLY OR OTHERWISE, THAT SUCH OTHER PARTY WOULD NOT, IN THE EVENT OF LITIGATION, SEEK TO ENFORCE THE FOREGOING WAIVER AND (B) ACKNOWLEDGES THAT IT AND THE OTHER PARTIES HERETO HAVE BEEN INDUCED TO ENTER INTO THIS AGREEMENT AND THE OTHER LOAN DOCUMENTS, AS APPLICABLE, BY, AMONG OTHER THINGS, THE MUTUAL WAIVERS AND CERTIFICATIONS IN THIS SECTION 6.10.

SECTION 6.11. <u>Severability</u>. In the event any one or more of the provisions contained in this Agreement or in any other Loan Document should be held invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein and therein shall not in any way be affected or impaired thereby (it being understood that the invalidity of a particular provision in a particular jurisdiction shall not in and of itself affect the validity of such provision in any other jurisdiction). The parties shall endeavor in goodfaith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

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- Jurisdiction: Consent to Service of SECTION 6.12. Each Grantor hereby irrevocably and unconditionally (a) submits, for itself and its property, to the nonexclusive jurisdiction of any New York State court or Federal court of the United States of America sitting in New York City, and any appellate court from any thereof, in any action or proceeding arising out of or relating to this Agreement or the other Loan Documents, or for recognition or enforcement of any judgment, and each of the parties hereto hereby irrevocably and unconditionally agrees that all claims in respect of any such action or proceeding may be heard and determined in such New York State or, to the extent permitted by law, in such Federal court. Each of the parties hereto agrees that a final judgment in any such action or proceeding shall be conclusive and may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by law. Nothing in this Agreement shall affect any right that any Loan Party or Secured Party may otherwise have to bring any action or proceeding relating to this Agreement or the other Loan Documents against any Grantor or any Secured Party or its properties in the courts of any jurisdiction.
- (b) Each Grantor and each Secured Party hereby irrevocably and unconditionally waives, to the fullest extent it may legally and effectively do so, any objection that it may now or hereafter have to the laying of venue of any suit, action or proceeding arising out of or relating to this Agreement or the other Loan Documents in any New York State or Federal court. Each of the parties hereto hereby irrevocably waives, to the fullest extent permitted by law, the defense of an inconvenient forum to the maintenance of such action or proceeding in any such court.
- (c) Each party to this Agreement irrevocably consents to service of process in the manner provided for notices in Section 6.02. Nothing in this Agreement will affect the right of any party to this Agreement to serve process in any other manner permitted by law.
- SECTION 6.13. <u>Counterparts</u>. This Agreement may be executed in two or more counterparts, each of which shall constitute an original, but all of which, when taken together shall constitute but one instrument, and shall become effective as provided in Section 6.08.
- SECTION 6.14. <u>Headings</u>. Article and Section headings used herein are for convenience of reference only, are not part of this Agreement and are not to affect the construction of, or to be taken into consideration in interpreting, this Agreement.
- SECTION 6.15. Additional Grantors. Pursuant to Section 5.11 of the Credit Agreements, each U.S. Subsidiary that was not in existence or not a U.S. Subsidiary on the date thereof is required to enter into this Agreement as a Grantor upon becoming a U.S. Subsidiary. Upon execution and delivery, after the date hereof, by the Collateral Agent and such U.S. Subsidiary of an instrument in the form of Annex 1, such U.S. Subsidiary shall become a Grantor hereunder with the same force and effect as if originally named as a Grantor hereunder. The execution and delivery of any such instrument shall not require the consent of any Grantor hereunder. The rights and obligations of each Grantor

[NYCORP; 697656.4:4336D:11/05/1998--2:37p]



IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

UCAR INTERNATIONAL INC.

bу

Name: Michelle F. Rider Title: Attorney in Tack

UCAR GLOBAL ENTERPRISES INC.

by

Name: Michelle F. Rider Title: Attorney-in-Fact

EACH OF THE SUBSIDIARY GRANTORS LISTED ON SHEDULE VII HERETO

by Michelle F. Ride

Name: Michelle F Ridar Title: Alfoney-in-Fact

THE CHASE MANHATTAN BANK, as Collateral Agent

Name:

Name:

[NYCORP; 697656.4:4336D:11/05/1998+-2:37p]

#### PATENTS AND PATENT APPLICATIONS

Serial No. or

Patent No. Inventor

Country

Issue or *File Date* 

Title

SEE ATTACHED

[NYCORP;697656.4:4336D:11/05/1998--2:37p]

# TRADEMARKS, TRADEMARK REGISTRATIONS AND TRADEMARK REGISTRATION APPLICATIONS

Serial No. or Registration No.

Country

Issue or *File Date* 

Mark

SEE ATTACHED

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#### COPYRIGHT REGISTRATIONS AND COPYRIGHT REGISTRATION APPLICATIONS

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Registration No. Country

Issue or File Date Title

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TRADE NAMES

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SCHEDULE VI TO INTELLECTUAL PROPERTY SECURITY AGREEMENT

Offices Where Financing Statements Need to be Filed

[NYCORP;697656.4:4336D:11/05/1998--2:37p]

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#### SUBSIDIARY GRANTORS

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UCAR International Inc.

UCAR Global Enterprises Inc.

UCAR Carbon Company Inc.

UCAR Carbon Technology Corporation

UCAR Holdings Inc.

UCAR Holdings II Inc.

UCAR Holdings III Inc.

UCAR International Trading Inc.

Union Carbide Grafito, Inc.

UCAR Composites Inc.

[NYCorp; 697656.4:4336D:11/09/1998--4:32p]

A. Reference is made to (i) the Credit Agreement dated as of October 19, 1995, as amended and restated as of March 19, 1997 and November 10, 1998 (as the same may be amended, supplemented or otherwise modified from time to time, the "Existing Credit Agreement"), among UCAR, the Borrower, the Subsidiary Borrowers party thereto, the Lenders party thereto, the Fronting Banks party thereto and The Chase Manhattan Bank, as administrative agent and collateral agent and (ii) the Credit Agreement dated as of November 10, 1998, among UCAR, the Borrower, UCAR S.A., the Lenders party thereto, The Chase Manhattan Bank, as administrative agent and collateral agent, Credit Suisse First Boston, as syndication agent, and Morgan Guaranty Trust Company of New York, as syndication agent (as the same may be amended, supplemented or otherwise modified from time to time, the "Tranche C Facility Credit Agreement", and together with the Existing Credit Agreement, the "Credit Agreements").

B. The Borrower and the U.S. Subsidiaries have entered into the Intellectual Property Security Agreement in order to induce the Lenders to make Loans and the Fronting Banks to issue Letters of Credit pursuant to, and upon the terms and subject to the conditions specified in, the Credit Agreements. Pursuant to Section 5.11 of the Credit Agreements, each U.S. Subsidiary that was not in existence or not a U.S. Subsidiary on the date thereof is required to enter into the Intellectual Property Security Agreement as a Grantor upon becoming a U.S. Subsidiary. Section 6.15 of the Intellectual Property Security Agreement provides that additional U.S. Subsidiaries may become Grantors under the Intellectual Property Security Agreement by execution and delivery of an instrument in the form of this Supplement. The undersigned (the "New Grantor") is a U.S. Subsidiary and is executing this Supplement in accordance with the requirements of the Credit Agreements to become a Grantor under the Intellectual Property Security Agreement in order to induce the Lenders to make additional Loans and the Fronting Banks to issue additional Letters of Credit and as consideration for Loans previously made and Letters of Credit previously issued.

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Accordingly, the Collateral Agent and the New Grantor agree as follows:

SECTION 1. In accordance with Section 6.15 of the Intellectual Property Security Agreement, the New Grantor by its signature below becomes a Grantor under the Intellectual Property Security Agreement with the same force and effect as if originally named therein as a Grantor and the New Grantor hereby agrees to all the terms and provisions of the Intellectual Property Security Agreement applicable to it as a Grantor thereunder. Each reference to a "Grantor" in the Intellectual Property Security Agreement shall be deemed to include the New Grantor. The Intellectual Property Security Agreement is hereby incorporated herein by reference.

SECTION 2. The New Grantor represents and warrants to the Secured Parties that this Supplement has been duly authorized, executed and delivered by it and constitutes its legal, valid and binding obligation, enforceable against it in accordance with its terms, subject to the effects of applicable bankruptcy, insolvency or similar laws effecting creditors' rights generally and equitable principles of general applicability.

SECTION 3. This Supplement may be executed in two or more counterparts, each of which shall constitute an original, but all of which, when taken together, shall constitute but one instrument. This Supplement shall become effective when the Collateral Agent shall have received counterparts of this Supplement that, when taken together, bear the signatures of the New Grantor and the Collateral Agent.

SECTION 4. Except as expressly supplemented hereby, the Intellectual Property Security Agreement shall remain in full force and effect.

# SECTION 5. THIS SUPPLEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

SECTION 6. In case any one or more of the provisions contained in this Supplement should be held invalid, illegal or unenforceable in any respect, neither party hereto shall be required to comply with such provision for so long as such provision is held to be invalid, illegal or unenforceable, but the validity, legality and enforceability of the remaining provisions contained herein and in the Intellectual Property Security Agreement shall not in any way be affected or impaired. The parties hereto shall endeavor in good-faith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

SECTION 7. All communications and notices hereunder shall be in writing and given as provided in the Credit Agreements. All communications and notices hereunder to the New Grantor shall be given to it at the address set forth under its signature, with a copy to the Borrower.

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IN WITNESS WHEREOF, the New Grantor and the Collateral Agent have duly executed this Supplement to the Intellectual Property Security Agreement as of the day and year first above written.

[NAME OF NEW GRANTOR],

by

Name: Title: Address:

THE CHASE MANHATTAN BANK, as Collateral Agent,

bу

Name: Title:

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#### INTELLECTUAL PROPERTY SECURITY AGREEMENT

INTELLECTUAL PROPERTY SECURITY AGREEMENT dated as of April 22, 1998, as amended and restated as of November 10, 1998, made by UCAR INTERNATIONAL INC., Delaware corporation ("<u>UCAR</u>"), UCAR GLOBAL ENTERPRISES INC., a Delaware corporation (the "Borrower"), and the U.S. Subsidiaries (the "Subsidiary Grantors", and together with UCAR and the Borrower, the "Grantors") in favor of THE CHASE MANHATTAN BANK, a New York banking corporation, as collateral agent for the Secured Parties. Reference is made to (i) the Credit Agreement dated as of October 19, 1995, as amended and restated as of March 19, 1997 and November 10, 1998 (as the same may be amended, supplemented or otherwise modified from time to time, the "Existing Credit Agreement"), among UCAR, the Borrower, the Subsidiary Borrowers party thereto, the Lenders party thereto, the Fronting Banks party thereto and The Chase Manhattan Bank, as administrative agent and collateral agent and (ii) the Credit Agreement dated as of November 10, 1998, among UCAR, the Borrower, UCAR S.A., the Lenders party thereto, The Chase Manhattan Bank, as administrative agent and collateral agent, Credit Suisse First Boston, as syndication agent, and Morgan Guaranty Trust Company of New York, as syndication agent (as the same may be amended, supplemented or otherwise modified from time to time, the "Tranche C Facility Credit Agreement", and together with the Existing Credit Agreement, the "Credit Agreements").

The Lenders and the Fronting Banks, respectively, have agreed to make Loans to the Credit Parties and to issue Letters of Credit for the account of the Credit Parties, pursuant to, and upon the terms and subject to the conditions specified in, the Credit Agreements.

The obligations of the Lenders to make Loans and of the Fronting Banks to issue Letters of Credit under the Credit Agreements are conditioned upon, among other things, the execution and delivery by the Grantors of an intellectual property security agreement in the form hereof to secure the due and punctual payment of, with respect to each Grantor, its obligations as obligor or guarantor in respect of (i) the unpaid principal of and premium, if any, and interest (including interest accruing at the then applicable rate provided in the Existing Credit Agreement after the maturity of the Loans thereunder and interest accruing at the then applicable rate provided in the Existing Credit Agreement after the filing of any petition in bankruptcy, or the commencement of any insolvency, reorganization or like proceeding, relating to any Credit Party thereunder whether or not a claim for post-filing or post-petition interest is allowed in such proceeding) on the Loans made under the Existing Credit Agreement, when and as due, whether at maturity, by acceleration, upon one or more dates set for prepayment or otherwise, (ii) the unpaid principal of and premium, if any, and interest (including interest accruing at the then applicable rate provided in the Tranche C Facility Credit Agreement after the maturity of the Loans

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thereunder and interest accruing at the applicable rate provided in the Tranche C Facility Credit Agreement after the filing of any petition in bankruptcy, or the commencement of any insolvency, reorganization or like proceeding, relating to any Credit Party thereunder whether or not a claim for post-filing or post-petition interest is allowed in such proceeding) on the Loans made under the Tranche C Facility Credit Agreement, when and as due, whether at maturity, by acceleration, upon one or more dates set for prepayment or otherwise, (iii) each payment required to be made by any Credit Party under the Existing Credit Agreement, when and as due, including payments in respect of reimbursements of L/C Disbursements, interest thereon and obligations to provide cash collateral, (iv) each payment required to be made by any Credit Party under the Tranche C Facility Credit Agreement, when and as due, and (v) all other obligations and liabilities of every nature of the Credit Parties under the Credit Agreements from time to time owed to the Secured Parties or any of them, whether direct or indirect, absolute or contingent, due or to become due, or now existing or hereafter incurred (including monetary obligations incurred during the pendency of any bankruptcy, insolvency, receivership or other similar proceeding, regardless of whether allowed or allowable in such proceeding), which may arise under, out of, or in connection with, the Existing Credit Agreement, the Tranche C Facility Credit Agreement, any Guarantee Agreement, any Security Document or any other Loan Document and any obligation of the Borrower or any Credit Party under either of the Credit Agreements to a Lender under either Credit Agreement pursuant to an Interest/Exchange Rate Protection Agreement or under any other document made, delivered or given in connection with any of the foregoing, in each case whether on account of principal, interest, reimbursement obligations, fees, indemnities, costs, expenses or otherwise (including all fees and disbursements of counsel to the Collateral Agent or to the Secured Parties that are required to be paid by the Borrower or any Credit Party pursuant to the terms of the Existing Credit Agreement, the Tranche C Facility Credit Agreement, any Guarantee Agreement, any Security Document, any other Loan Document or any Interest/Exchange Rate Protection Agreement with a Lender (all the foregoing obligations collectively, the "Obligations").

Accordingly, the Grantors and the Collateral Agent, on behalf of itself and each other Secured Party (and each of their successors and assigns), hereby agree as follows:

#### ARTICLE I

#### Definitions

SECTION 1.01. <u>Definition of Terms Used Herein</u>. All capitalized terms used but not defined herein shall have the meanings assigned to such terms in the Credit Agreements.

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SECTION 1.02. <u>Definition of Certain Terms Used Herein</u>. As used herein, the following terms shall have the following meanings:

"Agreement" shall mean this Intellectual Property Security Agreement.

"Collateral" shall mean, with respect to each Grantor, all of the following, whether now owned or hereafter acquired by such Grantor: (a) Patents, including all granted Patents, recordings and pending applications, including those listed on Schedule I attached hereto, (b) Trademarks, including all registered Trademarks, registrations, recordings, and pending applications, including those listed on Schedule II attached hereto, (c) Copyrights, including all registered Copyrights, registrations, recordings, supplemental registrations and pending applications, including those listed on Schedule III attached hereto, (d) Licenses, including those listed on Schedule IV hereto, (e) General Intangibles, and (f) all products and Proceeds (including insurance proceeds) of, and additions, improvements and accessions to, and books and records describing or used in connection with, any and all of the property described above.

"Copyrights" shall mean, with respect to each Grantor, all of the following now or hereafter owned by such Grantor:
(i) all copyright rights in any work subject to the copyright laws of the United States or any other country, whether as author, assignee, transferee or otherwise, and (ii) all registrations and applications for registration of any such copyright in the United States or any other country, including registrations, recordings, supplemental registrations and pending applications for registration in the United States Copyright Office.

"Copyright License" shall mean, with respect to each Grantor, any written agreement, now or hereafter in effect, granting any right to any third party under any Copyright now or hereafter owned by such Grantor or which such Grantor otherwise has the right to license, or granting any right to such Grantor under any Copyright now or hereafter owned by any third party, and all rights of such Grantor under any such agreement.

"General Intangibles" shall mean, with respect to each Grantor, all intangible, intellectual or other similar property of such Grantor of any kind or nature now owned or hereafter acquired by such Grantor, including inventions, designs, Patents, Copyrights, Licenses, Trademarks, trade secrets, confidential or proprietary technical and business information, know-how, show-how or other data or information, software and databases and all embodiments or fixations thereof and related documentation, registrations, franchises, and all other intellectual or other similar property rights not otherwise described above.

"Indemnitee" shall mean the Collateral Agent, the Secured Parties and their respective officers, directors, trustees, affiliates and controlling persons.

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"<u>License</u>" shall mean, with respect to each Grantor, any Patent License, Trademark License, Copyright License or other license or sublicense as to which such Grantor is a party (other

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than those license agreements which by their terms prohibit assignment or a grant of a security interest by such Grantor as licensee thereunder).

"Patent License" shall mean, with respect to each Grantor, any written agreement, now or hereafter in effect, granting to any third party any right to make, use or sell any invention on which a Patent, now or hereafter owned by such Grantor or which such Grantor otherwise has the right to license, is in existence, or granting to such Grantor any right to make, use or sell any invention on which a Patent, now or hereafter owned by any third party, is in existence, and all rights of such Grantor under any such agreement.

"Patents" shall mean, with respect to each Grantor, all the following now or hereafter owned by such Grantor: (a) all letters patent of the United States or any other country, including patents, design patents or utility models, all registrations and recordings thereof, and all applications for letters patent of the United States or any other country, including registrations, recordings and pending applications in the United States Patent and Trademark Office or any similar offices in any other country, and (b) all reissues, continuations, divisions, continuations—in—part, renewals or extensions thereof, and the inventions disclosed or claimed therein, including the right to make, use and/or sell the inventions disclosed or claimed therein.

"Proceeds" shall mean, with respect to each Grantor, any consideration received from the sale, exchange, license, lease or other disposition of any asset or property that constitutes Collateral owned by such Grantor, any value received as a consequence of the possession of any such Collateral and any payment received from any insurer or other person or entity as a result of the destruction, loss, theft or other involuntary conversion of whatever nature of any asset or property that constitutes such Collateral, any claim of such Grantor against third parties for (and the right to sue and recover for and the rights to damages or profits due or accrued arising out of or in connection with) (a) past, present or future infringement of any Patent now or hereafter owned by such Grantor or licensed under a Patent License, (b) past, present or future infringement or dilution of any Trademark now or hereafter owned by such Grantor or licensed under a Trademark License or injury to the goodwill associated with or symbolized by any Trademark now or hereafter owned by such Grantor, (c) past, present or future breach of any License, (d) past, present or future infringement of any Copyright now or hereafter owned by such Grantor or licensed under a Copyright License, and (e) any and all other amounts from time to time paid or payable under or in connection with any of such Collateral.

"Trademark License" shall mean, with respect to each Grantor, any written agreement, now or hereafter in effect, granting to any third party any right to use any Trademark now or hereafter owned by such Grantor or that such Grantor otherwise has the right to license, or granting to such Grantor any right to use any Trademark now or hereafter owned by any third party, and all rights of such Grantor under any such agreement.

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"Trademarks" shall mean, with respect to each Grantor, all of the following now or hereafter owned by such Grantor: (a) all trademarks, service marks, trade names, corporate names, company names, business names, fictitious business names, trade styles, trade dress, logos, other source or business identifiers, prints and labels on which any of the foregoing have appeared or appear, and all designs and general intangibles of like nature, now existing or hereafter adopted or acquired, all registrations and recordings thereof, and all registration and recording applications filed in connection therewith, including registrations, recordings and applications in the United States Patent and Trademark Office, any State of the United States or any similar offices in any other country or any political subdivision thereof, and all extensions or renewals thereof, and (b) all goodwill associated therewith or symbolized thereby, and (c) all other assets, rights and interests that uniquely reflect or embody such goodwill.

"<u>U.S. Subsidiaries</u>" shall mean the Subsidiaries (as defined in the Credit Agreements) incorporated or otherwise organized in the United States of America.

SECTION 1.03. <u>Rules of Interpretation</u>. The rules of interpretation specified in Section 1.02 of the Credit Agreements shall be applicable to this Agreement.

#### ARTICLE II

#### Security Interest

SECTION 2.01. Security Interest. As security for the payment or performance, as the case may be, of the Obligations, each Grantor hereby creates, mortgages, pledges, hypothecates and transfers to the Collateral Agent, its successors and assigns, for the benefit of the Secured Parties, and hereby grants to the Collateral Agent, its successors and assigns, for the ratable benefit of the Secured Parties, a continuing first priority security interest in all such Grantors' right, title and interest in, to and under the Collateral subject to liens permitted under Section 6.02 of the Credit Agreements (the "Security Interest"). Without limiting the foregoing, the Collateral Agent is hereby authorized to file one or more financing statements, continuation statements, filings with the United States Patent and Trademark Office or United States Copyright Office (or similar office in any other country), or any other documents for the purpose of perfecting, confirming, continuing, enforcing or protecting the Security Interest granted by such Grantor, without the signature of such Grantor, naming such Grantor as debtor and the Collateral Agent as secured party.

Notwithstanding any other provision of this Agreement to the contrary, the Collateral shall not include any License which by its terms or the terms governing it prohibits assignment thereof or the grant of a security interest therein; provided that such term or terms are typical or customary in connection with the document or instrument to which they relate.

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Each Grantor agrees at all times to keep accurate and complete, in all material respects, accounting records with respect to the Collateral and, on and after the occurrence and during the continuance of a Default, a record of all payments and Proceeds received in respect thereof.

SECTION 2.02. Further Assurances. Each Grantor agrees, at its own cost and expense, to promptly execute, acknowledge, deliver and cause to be duly filed all such further instruments and documents and take all such actions as the Collateral Agent may from time to time reasonably request for the better assuring, preserving and perfecting of the Security Interest and the rights and remedies created hereby, including the payment of any fees and taxes required in connection with the execution and delivery of this Agreement, the granting of the Security Interest created hereby, the filing of any financing statements or other documents (including filings with the United States Patent and Trademark Office and the United States Copyright Office or similar offices in any other country) in connection herewith, and the execution and delivery of any document required to supplement this Agreement with respect to any Patents, Trademarks and/or Copyrights applied for, acquired, registered (or for which registration applications are filed) or issued after the date hereof. If any amount payable under or in connection with any of the Collateral shall be or become evidenced by any promissory note or other instrument, upon the request of the Collateral Agent, such note or instrument shall (to the extent not previously pledged and delivered pursuant to the Pledge Agreements) be immediately pledged and delivered to the Collateral Agent, duly endorsed in a manner satisfactory to the Collateral Agent. Each Grantor agrees promptly to notify the Collateral Agent if any material portion of the Collateral is canceled or overturned, opposed, misappropriated, injured, infringed, lost (other than due to expiration of any issued Patent) or, if applicable, diluted.

SECTION 2.03. <u>Inspection and Verification</u>. limiting the scope of Section 5.07 of the Credit Agreements, the Collateral Agent and such representatives as the Collateral Agent may reasonably designate shall have the right to inspect, at any reasonable times or times, any of the Collateral, all records related thereto (and to make extracts and copies from such records) and the premises upon which any of the Collateral is located, to discuss any Grantor's affairs with the officers of such Grantor and its independent accountants and to verify under reasonable procedures the validity, amount, quality, quantity, value, conditions, and status of or any other matter relating to such Collateral, including, in the case of Collateral in the possession of any third party (with, except after an Event of Default shall have occurred and during the continuance thereof, the consent of such Grantor, which consent shall not be unreasonably withheld), by contacting such person possessing such Collateral for the purpose of making such a verification. Collateral Agent shall have the absolute right to share any information it gains from such inspection or verification with any or all of the Secured Parties.

SECTION 2.04. <u>Taxes</u>; <u>Encumbrances</u>. At its option, the Collateral Agent may discharge past due taxes, assessments, charges, fees, liens, security interests or other encumbrances at

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any time levied or placed on any of the Collateral and not permitted under this Agreement or other Loan Documents, and may pay for the maintenance and preservation of any of the Collateral to the extent any Grantor fails to do so to the extent required by this Agreement or the other Loan Documents, and such Grantor agrees to reimburse the Collateral Agent on demand for any payment made or any expense incurred by the Collateral Agent pursuant to the foregoing authorization; provided, however, that nothing in this Section 2.04 shall be interpreted as excusing any Grantor from the performance of, or imposing any obligation on the Collateral Agent or any other Secured Party to cure or perform, any covenants or other promises of any Grantor with respect to taxes, assessments, charges, fees, liens, security interests or other encumbrances and maintenance as set forth herein or in the other Loan Documents.

SECTION 2.05. No Assumption of Liability. The Security Interest is granted as security only and shall not subject any Secured Party to, or in any way alter or modify, any obligation or liability of any Grantor with respect to or arising out of any of the Collateral.

#### ARTICLE III

#### Representations and Warranties

Representations and Warranties. Each Grantor represents and warrants, as to itself and the Collateral in which the Security Interest is created by it hereunder, that:

SECTION 3.01. <u>Validity of Patents, Trademarks and Copyrights</u>. Each of the Patents, Trademarks and Copyrights is subsisting and has not been adjudged invalid or unenforceable, in whole or in part, except as could not reasonably be expected to have a Material Adverse Effect.

SECTION 3.02. <u>Title and Authority</u>. Each Grantor has rights in and good title to the Collateral shown on the schedules hereto as being owned by it and has full corporate power and authority to grant to the Collateral Agent (for the benefit of the Secured Parties) the Security Interest in the Collateral pursuant hereto and to execute, deliver and perform its obligations in accordance with the terms of this Agreement, without the consent or approval of any other person other than any consent or approval that has been obtained, except, in each case, as could not reasonably be expected to have a Material Adverse Effect.

SECTION 3.03. Filings. (a) Fully executed financing statements containing a description of the Collateral shall promptly following the Closing Date be filed of record in every governmental, municipal or other office in every jurisdiction located within the United States and its respective territories and possessions or such other analogous documents in other countries as are necessary to publish notice of and protect the validity of and to establish a valid and perfected security interest in favor of the Collateral Agent (for the benefit of the Secured Parties) in respect of the Collateral in which a security interest may be perfected by filing a financing statement or

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analogous document in the United States and its political subdivisions, territories and possessions pursuant to the Uniform Commercial Code or other applicable law in such jurisdictions or pursuant to applicable law in other countries, and no further or subsequent filing, refiling, recording, rerecording, registration or reregistration is necessary in any such jurisdiction, except as provided under applicable law with respect to the filing of continuation statements or other documents of similar effect, except as contemplated by paragraph (b) below and filings with respect to after-acquired Collateral, with respect to which all necessary actions will be promptly taken subsequent to the acquisition of such after-acquired Collateral.

Each Grantor shall ensure and warrants that fully executed security agreements in the form hereof and containing a description of the Collateral shall have been received and recorded within three months after the execution of this Agreement with respect to United States Patents and United States registered Trademarks (and Trademarks for which United States registration applications are pending) and within one month after the execution of this Agreement with respect to United States registered Copyrights by the United States Patent and Trademark Office and the United States Copyright Office pursuant to 35 U.S.C. § 261, 15 U.S.C. § 1060 or 17 U.S.C. § 205 and the regulations thereunder, as applicable, and otherwise as may be required pursuant to the laws of any other country or any political subdivision thereof, to protect the validity and first priority of and to perfect a valid first priority security interest (subject only to Liens permitted by Section 6.02 of the Credit Agreements) in favor of the Collateral Agent (for the benefit of the Secured Parties) in respect of the Collateral in which a security interest may be perfected by filing in the United States and its political subdivisions, territories and possessions, and no further or subsequent filing, refiling, recording, rerecording, registration or reregistration is necessary in any such jurisdiction, except as provided under applicable law with respect to the filing of continuation statements (other than such actions as are necessary to perfect the Collateral Agent's first priority security interest with respect to any Collateral (or registration or application for registration thereof) acquired or developed after the date hereof).

SECTION 3.04. Validity of Security Interests. Agreement is effective to create in favor of the Collateral Agent, for the ratable benefit of the Secured Parties, a legal, valid and enforceable security interest in the Collateral, and, when financing statements in appropriate form are filed in the offices specified on Schedule VI hereto and this Agreement is filed in the United States Patent and Trademark Office and the United States Copyright Office, this Agreement will constitute a duly perfected Lien on, and security interest in, all right, title and interest of the Grantors in such Collateral and, to the extent contemplated therein and subject to § 9-306 of the UCC, the proceeds thereof, in each case prior and superior in right to any other person (it being understood that subsequent recordings in the United States Patent and Trademark Office and the United States Copyright Office may be necessary to perfect a lien on registered trademarks, trademark applications and copyrights acquired by the Grantors after the date hereof), other than with respect to the rights of

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persons pursuant to Liens expressly permitted by Section 6.02 of the Credit Agreements.

SECTION 3.05. <u>Information Regarding Names and Locations</u>. Each Grantor has disclosed in writing to the Collateral Agent on Schedule IV any material trade names used to identify it in its business or in the ownership of its properties during the past five years.

SECTION 3.06. Absence of Other Liens. The Collateral is owned by the Grantors free and clear of any Lien of any nature whatsoever (except for Liens expressly permitted by Section 6.02 of the Credit Agreements or hereby and any liens of licenses listed on Schedule V). Other than as contemplated hereby and by the other Loan Documents, and except as permitted therein, the Grantors have not filed (a) any financing statement or analogous document under the Uniform Commercial Code, (b) any assignment in which any Grantor assigns the Collateral, any security agreement or any similar instrument covering any Collateral with the United States Patent and Trademark Office, the United States Copyright Office or any similar office in any other country of political subdivision thereof and (c) any assignment in which any Grantor assigns the Collateral or any security agreement or similar instrument covering any Collateral with any foreign governmental, municipal or other office.

#### ARTICLE IV

#### Covenants

SECTION 4.01. Covenants Regarding Patent, Trademark and Copyright Collateral. (a) Each Grantor (either itself or through licensees) will, for each Patent, not do any act, or omit to do any act, whereby any Patent that is material to the conduct of the Grantors' businesses, taken as a whole, may become invalidated or dedicated to the public, and shall continue to mark, to the extent consistent with past practices and good business judgment, any products covered by a material Patent with the relevant patent number as necessary and sufficient to establish and preserve such Grantor's material rights under applicable patent laws.

(b) Each Grantor (either itself or through its licensees or its sublicensees) will, for each Trademark material to the conduct of the Grantors' businesses, taken as a whole, to the extent consistent with past practices and good business judgment, (i) maintain such Trademark in full force free from any material claim of abandonment or invalidity for nonuse, (ii) maintain the quality of products and services offered under such Trademark to the extent that the failure to do so would result in a Material Adverse Effect, (iii) display such Trademark with notice of federal or foreign registration to the extent necessary and sufficient to establish and preserve such Grantor's material rights under applicable law and (iv) not knowingly use or knowingly permit the use of such Trademark in violation of any material third-party rights.

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- (c) Each Grantor (either itself or through licensees) will, for each work covered by a material Copyright, to the extent consistent with past practices and good business judgment, continue to publish, reproduce, display, adopt and distribute the work with appropriate copyright notice as necessary and sufficient to establish and preserve such Grantor's material rights under applicable copyright laws.
- (d) Each Grantor shall notify the Collateral Agent immediately if it knows or has reason to know that any Patent, Trademark or Copyright material to the conduct of the Grantors' businesses, taken as a whole, may become abandoned, lost or dedicated to the public, or of any adverse determination or development (including the institution of, or any such determination or development in, any proceeding in the United States Patent and Trademark Office, United States Copyright Office or any court or similar office of any country) regarding such Grantor's ownership of any such Patent, Trademark or Copyright, its right to register the same, or to keep and maintain the same.
- In no event shall any Grantor, either itself or through any agent, employee, licensee or designee, file an application for any Patent, Trademark or Copyright (or for the registration of any Trademark or Copyright) with the United States Patent and Trademark Office, United States Copyright Office or any office or agency in any political subdivision of the United States or in any other country or any political subdivision thereof, unless it promptly informs the Collateral Agent, and, upon request of the Collateral Agent, executes and delivers any and all agreements, instruments, documents and papers as the Collateral Agent may reasonably request to evidence (and, in the case of applications for Trademarks with the United States Patent and Trademark Office, perfect) the Collateral Agent's security interest in such Patent, Trademark or Copyright of such Grantor and the good will and general intangibles of such Grantor relating thereto or represented thereby, and such Grantor hereby appoints the Collateral Agent as its attorney-in-fact to execute and file such writings for the foregoing purposes, all acts of such attorney being hereby ratified and confirmed; such power, being coupled with an interest, is irrevocable until the Obligations are paid in full.
- Each Grantor will take all necessary steps that are consistent with the practice in any proceeding before the United States Patent and Trademark Office, United States Copyright Office or any office or agency in any political subdivision of the United States or in any other country or any political subdivision thereof, to maintain and pursue each material application (and to obtain the relevant grant or registration) relating to the Patents, Trademarks and/or Copyrights which are material to the Grantors' businesses, taken as a whole, to maintain each issued Patent and each registration of the Trademarks and Copyrights that is material to the conduct of the Grantors' businesses, taken as a whole, including timely filings of applications for renewal, affidavits of use, affidavits of incontestability and payment of maintenance fees, and, if consistent with good business judgment, to initiate opposition, interference and cancelation proceedings against third parties.

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(g) In the event that any Collateral consisting of a Patent, Trademark or Copyright material to the conduct of the Grantors' businesses, taken as a whole, is believed by the Grantor that has created the Security Interest in such Collateral pursuant hereto to have been infringed, misappropriated or diluted by a third party in any material respect, such Grantor shall notify the Collateral Agent promptly after it learns thereof and shall, if consistent with good business judgment, promptly sue for infringement, misappropriation, or dilution and to recover any and all damages for such infringement, misappropriation or dilution, and take such other actions as are appropriate under the circumstances to protect such Collateral.

SECTION 4.02. <u>Protection of Security</u>. Each Grantor shall, at its own cost and expense, take any and all reasonable actions necessary to defend title to the Collateral against all persons, to properly maintain, protect and preserve the Collateral and to defend the Security Interest of the Collateral Agent in the Collateral and the priority thereof against any Lien not permitted under the Credit Agreements in each case, except as otherwise permitted by the Credit Agreements or this Agreement.

SECTION 4.03. Continuing Obligations of the Grantors. Each Grantor shall remain liable to observe and perform all the conditions and obligations to be observed and performed by it under each License, contract, agreement, interest or obligation relating to the Collateral, all in accordance with the terms and conditions thereof, to the extent consistent with good business practice. Without limiting the foregoing, the Collateral Agent shall have no obligation or liability under any License by reason of or arising out of this Agreement or the granting or the assignment to the Collateral Agent of the Security Interest or the receipt by the Collateral Agent of any payment related to any License pursuant hereto, nor shall the Collateral Agent be required or obligated in any manner to perform or fulfill any of the obligations of any Grantor under or pursuant to any License, or to make any payment, or to make any inquiry as to the nature or the sufficiency of any payment received by it or the sufficiency of any performance by any party under any License, or to present or file any claim, or to take any action to collect or enforce any performance of the payment of any amounts that may have been assigned to it or to which it may be entitled at any time or times.

SECTION 4.04. Use and Disposition of Collateral. A Grantor shall not (i) make or permit to be made an assignment, pledge or hypothecation of the Collateral, and shall grant no other security interest in the Collateral (other than pursuant hereto or except for any Permitted Liens) or (ii) make or permit to be made any transfer of the Collateral, and shall remain at all times in possession thereof other than transfers to the Collateral Agent pursuant to the provisions hereof; notwithstanding the foregoing, a Grantor may use and dispose of the Collateral in any lawful manner permitted by the provisions of this Agreement, the Credit Agreements or any other Loan Document, unless the Collateral Agent shall, after an Event of Default shall have occurred and during the continuance thereof, notify the Borrower not to sell, convey, lease, assign, transfer or otherwise dispose of any Collateral except with respect to any transfer between the

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Borrower or a Wholly Owned Subsidiary that is a Grantor and the Borrower or a Wholly Owned Subsidiary that is a Grantor.

- SECTION 4.05. Locations of Collateral; Place of Business. (a) Each Grantor agrees, at such time or times as the Collateral Agent may reasonably request, promptly to prepare and deliver to the Collateral Agent a duly certified schedule or schedules in form reasonably satisfactory to the Collateral Agent, showing the identity, amount and location (to the extent practicable) of any and all Collateral.
- (b) Each Grantor agrees not to change, or permit to be changed, the location of its chief executive office or chief place of business or the name or names used to identify it in its business or in the ownership of its properties unless all filings under the Uniform Commercial Code or under other applicable laws that are required to be made with respect to the Collateral have been made and the Collateral Agent has a valid, legal and perfected first priority security interest in the Collateral, subject to no liens, other than Liens permitted by Section 6.02 of the Credit Agreements and any liens or licenses listed on Schedule V, and prior notice thereof has been given to the Collateral Agent along with copies of all such filings to be made.
- SECTION 4.06. <u>Future Rights</u>. (a) If, before the time that all Obligations shall have been paid in full, no Letters of Credit are outstanding and the Secured Parties no longer have Commitments under the Credit Agreements, any Grantor shall obtain rights to any material asset or item that may be considered Collateral, the provisions of Section 2.01 shall automatically apply thereto and each Grantor shall give to the Collateral Agent prompt notice thereof in writing.
- (b) With respect to any such material asset or item that may be considered Collateral as set forth in paragraph (a) above, each Grantor shall follow the procedures set forth in Section 3.03, as applicable, to ensure that the Collateral Agent's valid first priority security interest therein is perfected (subject only to Liens permitted by Section 6.02 the Credit Agreements).
- SECTION 4.07 <u>Assignment of Licenses</u>. Upon and during the continuance of an Event of Default and at the reasonable request of the Collateral Agent, each Grantor shall use its reasonable efforts to obtain all requisite consents or approvals by the licensor of each Copyright License, Patent License or Trademark License to effect the assignment of all of the Grantors' rights, title and interest thereunder to the Collateral Agent or its designee.
- SECTION 4.08. Collateral Agent's Liabilities and Expenses; Indemnification. (a) Notwithstanding anything to the contrary provided herein, the Collateral Agent assumes no liabilities with respect to any claims regarding each Grantor's ownership (or purported ownership) of, or rights or obligations (or purported rights or obligations) arising from, the Collateral or any use (or actual or alleged misuse), license or sublicense thereof by any Grantor or any licensee of such Grantor, whether arising out of any past, current or future event, circumstance,

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act or omission or otherwise, or any claim, suit, loss, damage, expense or liability of any kind or nature arising out of or in connection with the Collateral or the production, marketing, delivery, sale or provision of goods or services under or in connection with any of the Collateral. As between the Secured Parties and the Grantors, all of such liabilities shall be borne exclusively by the Grantors.

- (b) Each Grantor hereby agrees to pay all expenses of the Collateral Agent and to indemnify the Collateral Agent with respect to any and all losses, claims, damages, liabilities and related expenses in respect of this Agreement or the Collateral in each case to the extent the Borrower is required to do so pursuant to Section 9.05 of the Credit Agreements.
- (c) Any amounts payable as provided hereunder shall be additional Obligations secured hereby and by the other Security Documents. Without prejudice to the survival of any other agreements contained herein, all indemnification and reimbursement obligations contained herein shall survive the payment in full of the principal and interest under the Credit Agreements, the expiration of the Letters of Credit and the termination of the Commitments or this Agreement.

#### ARTICLE V

#### Remedies

SECTION 5.01. Power of Attorney. Upon the occurrence and during the continuance of any Event of Default, subject to prior written notice to the Borrower, the Collateral Agent shall have the right, as the true and lawful attorney-in-fact of the Grantors, with power of substitution for the Grantors and in the Grantors' names, the Collateral Agent's name or otherwise, for the use and benefit of the Secured Parties (a) upon prior notice from the Collateral Agent, to receive, endorse, assign and/or deliver any and all notes, acceptances, checks, drafts, money orders or other evidences of payment relating to the Collateral or any part thereof; (b) to demand, collect, receive payment of, give receipt for and give discharges and releases of all or any of the Collateral; (c) to sign the name of any Grantor on any invoice relating to any of the Collateral; (d) to commence and prosecute any and all suits, actions or proceedings at law or in equity in any court of competent jurisdiction to collect or otherwise realize on all or any of the Collateral or to enforce any rights in respect of any Collateral; (e) to settle, compromise, compound, adjust or defend any actions, suits or proceedings relating to or pertaining to all or any of the Collateral; (f) to license or, to the extent permitted by any applicable law, sublicense, whether general, special or otherwise, and whether on an exclusive or nonexclusive basis, any of the Collateral throughout the world for such term or terms, on such conditions, and in such manner, as the Collateral Agent shall determine (other than in violation of any then existing licensing arrangements to the extent that waivers or other adequate provision cannot be secured therefor); and (g) generally to use, sell, assign, transfer, pledge, make any agreement with respect to or otherwise deal with all or any of the Collateral, and to do all other acts and things necessary to carry

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out the purposes of this Agreement, as fully and completely as though the Collateral Agent were the absolute owner of the Collateral for all purposes; provided, however, that except as provided for by law or the Uniform Commercial Code as in effect in the State of New York or its equivalent in other jurisdictions, nothing herein contained shall be construed as requiring or obligating the Collateral Agent to make any commitment or to make any inquiry as to the nature or sufficiency of any payment received by the Collateral Agent, or to present or file any claim or notice, or to take any action with respect to the Collateral or any part thereof or the moneys due or to become due in respect thereof or any property covered thereby, and no action taken by the Collateral Agent or omitted to be taken with respect to the Collateral or any part thereof shall give rise to any defense, counterclaim or offset in favor of any Grantor or to any claim or action against the Collateral Agent. It is understood and agreed that the appointment of the Collateral Agent as the attorney-infact of the Grantors for the purposes set forth above in this Section 5.01 is coupled with an interest and is irrevocable. provisions of this Section 5.01 shall in no event relieve the Grantors of any of their obligations hereunder or under the Credit Agreements or any other Loan Document with respect to the Collateral or any part thereof or impose any obligation on the Collateral Agent or the Secured Parties to proceed in any particular manner with respect to the Collateral or any part thereof, or in any way limit the exercise by the Collateral Agent or any Secured Party of any other or further right that it may have on the date of this Agreement or hereafter, whether hereunder or by law or by the Security Agreement, or otherwise.

SECTION 5.02. Other Remedies upon Default. Upon the occurrence and during the continuance of an Event of Default, each Grantor expressly agrees that, subject to prior written notice to the Borrower, the Collateral Agent on demand shall have the right to take any or all of the following actions at the same or different times: with or without legal process and with or without previous notice or demand for performance, to take possession of all tangible manifestations or embodiments of the Collateral and documentation relating thereto and all business records, documents, files, prints and labels with respect to the Collateral, and without liability for trespass to enter any premises where such tangible manifestations or embodiments, business records, documents, files, prints and labels with respect to the Collateral may be located for the purpose of taking possession of or removing such tangible manifestations or embodiments, business records, documents, files, prints and labels with respect to the Collateral, and, generally, to exercise any and all rights afforded to a secured party under the Uniform Commercial Code or other law applicable to any part of the Subject to and without limiting the generality of the Collateral. foregoing, each Grantor agrees that the Collateral Agent shall have the right, subject to the mandatory requirements of applicable law, to sell or otherwise dispose of all or any part of the Collateral, at public or private sale or at any broker's board or on any securities exchange, for cash, upon credit or for future delivery as the Collateral Agent shall deem appropriate. The Collateral Agent shall be authorized at any such sale (if it deems it advisable to do so) to restrict the prospective bidders or purchasers to persons who will represent and agree that they are

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purchasing the Collateral for their own account for investment and not with a view to the distribution or sale thereof where the failure to obtain such a representation and agreement could result in a violation of any applicable securities laws, and upon consummation of any such sale the Collateral Agent shall have the right to assign, transfer and deliver to the purchaser or purchasers thereof the Collateral so sold. Each such purchaser at any such sale shall hold the property sold absolutely, free from any claim or right on the part of any Grantor, and each Grantor hereby waives (to the extent permitted by law) all rights of redemption, stay and appraisal that such Grantor now has or may at any time in the future have under any rule of law or statute now existing or hereafter enacted.

The Collateral Agent shall give the Grantors at least 10 days' written notice (which each Grantor agrees is reasonable notice within the meaning of Section 9-504(3) of the Uniform Commercial Code as in effect in the State of New York or its equivalent in other jurisdictions) of the Collateral Agent's intention to make any sale of Collateral. Such notice, in the case of a public sale, shall state the time and place for such sale and, in the case of a sale at a broker's board or on a securities exchange, shall state the board or exchange at which such sale is to be made and the day on which the Collateral, or portion thereof, will first be offered for sale at such board or exchange. Any such public sale shall be held at such time or times within ordinary business hours and at such place or places as the Collateral Agent may fix and state in the notice (if any) of such sale. At any such sale, the Collateral, or portion thereof, to be sold may be sold in one lot as an entirety or in separate parcels, as the Collateral Agent may (in its sole and absolute discretion) determine. The Collateral Agent shall not be obligated to make any sale of any Collateral if it shall determine not to do so, regardless of the fact that notice of sale of such Collateral shall have been given. The Collateral Agent may, without notice or publication, adjourn any public or private sale or cause the same to be adjourned from time to time by announcement at the time and place fixed for sale, and such sale may, without further notice, be made at the time and place to which the same was so adjourned. In case any sale of all or any part of the Collateral is made on credit or for future delivery, the Collateral so sold may be retained by the Collateral Agent until the sale price is paid by the purchaser or purchasers thereof, but the Collateral Agent shall not incur any liability in case any such purchaser or purchasers shall fail to take up and pay for the Collateral so sold and, in case of any such failure, such Collateral may be sold again upon like notice to the Grantors. At any public sale made pursuant to this Section 5.02, the Collateral Agent or any Secured Party may bid for or purchase, free from any right of redemption, stay, valuation or appraisal on the part of any Grantor (all said rights being also hereby waived and released to the extent permitted by law), the Collateral or any part thereof offered for sale and may make payment on account thereof by using any claim then due and payable to the Collateral Agent or any Secured Party from any Grantor as a credit against the purchase price, and the Collateral Agent or any Secured Party may, upon compliance with the terms of sale, hold, retain and dispose of such property without further accountability to such Grantor therefor. As an alternative to exercising the power of

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sale herein conferred upon it, the Collateral Agent may proceed by a suit or suits at law or in equity to foreclose this Agreement and to sell the Collateral or any portion thereof pursuant to a judgment or decree of a court or courts having competent jurisdiction or pursuant to a proceeding by a court-appointed receiver.

SECTION 5.03. Application of Proceeds of Sale. The proceeds of any sale of Collateral, as well as any Collateral consisting of cash, shall be applied by the Collateral Agent as follows:

First, to the payment of the reasonable costs and expenses of the Collateral Agent as set forth in Sections 5.01 and 5.02 and in the Credit Agreements;

Second, to the payment of all amounts of the Obligations owed to the Secured Parties in respect of Loans made by them and outstanding and amounts owing in respect of any L/C Disbursement or Letter of Credit or under any Interest/Exchange Rate Protection Agreement, pro rata as among the Secured Parties in accordance with the amount of such Obligations owed them;

Third, to the payment and discharge in full of the Obligations (other than those referred to above), pro rata as among the Secured Parties in accordance with the amount of such Obligations owed to them; and

Fourth, after payment in full of all Obligations, to the applicable Grantor, or its successor or assign thereof, or to whomsoever may be lawfully entitled to receive the same or as a court of competent jurisdiction may direct, any Collateral then remaining.

The Collateral Agent shall have absolute discretion as to the time of application of any such proceeds, moneys or balances in accordance with this Agreement. Upon any sale of the Collateral by the Collateral Agent (including pursuant to a power of sale granted by statute or under a judicial proceeding), the receipt of the Collateral Agent or of the officer making the sale shall be a sufficient discharge to the purchaser or purchasers of the Collateral so sold and such purchaser or purchasers shall not be obligated to see to the application of any part of the purchase money paid over to the Collateral Agent or such officer or be answerable in any way for the misapplication thereof.

SECTION 5.04. Grant of License to Use Patent,
Trademark and Copyright Collateral. For the purpose of enabling
the Collateral Agent to exercise rights and remedies under
Article V hereof at such time as the Collateral Agent shall be
lawfully entitled to exercise such rights and remedies, each
Grantor hereby grants to the Collateral Agent an irrevocable, nonexclusive license (exercisable without payment of royalty or other
compensation to such Grantor) to use, license or sublicense any of
the Collateral now owned or hereafter acquired by such Grantor,
and wherever the same may be located, and including in such
license reasonable access to all media in which any of the
licensed items may be recorded or stored. The use of such license

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by the Collateral Agent shall be exercised, at the option of the Collateral Agent for any purpose appropriate in connection with the exercise of remedies hereunder, only upon the occurrence and during the continuance of an Event of Default; provided that any license, sublicense or other transaction entered into by the Collateral Agent in accordance herewith shall be binding upon such Grantor notwithstanding any subsequent cure of an Event of Default. The Collateral Agent agrees to apply the net proceeds received from any license as provided in Section 5.03 hereof.

#### ARTICLE VI

#### Miscellaneous

SECTION 6.01. The Collateral Agent Appointed Attorneyin-Fact. Except as otherwise provided herein, each Grantor hereby appoints the Collateral Agent the attorney-in-fact of such Grantor, effective upon the occurrence and during the continuance of an Event of Default, for the purposes of carrying out the provisions of this Agreement, taking any action and executing any instrument that the Collateral Agent may reasonably deem necessary or advisable to accomplish the purposes hereof, and doing all other acts that such Grantor is obligated to do hereunder. Such appointment is in each case irrevocable and coupled with an interest. Each Grantor hereby ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof in accordance with this Agreement.

SECTION 6.02. <u>Notices</u>. Notices and other communications provided for herein shall be in writing and given (i) in the case of communications and notices to any Credit Party or any Secured Party, as provided in the Credit Agreements and (ii) in the case of communications and notices to any Grantor that is not a Credit Party, as provided in the Subsidiary Guarantee Agreement.

SECTION 6.03. <u>Successors and Assigns</u>. (a) Whenever in this Agreement any of the parties hereto is referred to, such reference shall be deemed to include the permitted successors and assigns of such party, and the terms "Lender", "Fronting Bank" and "Secured Party" shall include each permitted successor and assignee of any Lender, Fronting Bank or Secured Party permitted under Section 9.04 of the Credit Agreements and all covenants, promises and agreements by or on behalf of the Grantors or the Collateral Agent or that are contained in this Agreement shall bind and inure to the benefit of their respective permitted successors and permitted assigns referred to above.

- (b) No Grantor shall assign or delegate any of its rights and duties hereunder.
- (c) The covenants, promises and agreements by the Grantors shall inure to the benefit of each Secured Party and each assignee of any Secured Party permitted under Section 9.04 of the Credit Agreements.

SECTION 6.04. Applicable Law. THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE

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STATE OF NEW YORK, EXCEPT TO THE EXTENT THAT FEDERAL LAW OR LAWS OF ANOTHER STATE OR FOREIGN JURISDICTION MAY APPLY TO PATENTS, TRADEMARKS, COPYRIGHTS, OTHER COLLATERAL OR REMEDIES.

SECTION 6.05. Waivers: Amendment. (a) No failure or delay of the Collateral Agent in exercising any power or right hereunder shall operate as a waiver thereof, nor shall any single or partial exercise of any such right or power, or any abandonment or discontinuance of steps to enforce such a right or power, preclude any other right or power. The rights and remedies of the Collateral Agent hereunder and of other Secured Parties under the Loan Documents are cumulative and are not exclusive of any rights or remedies that they would otherwise have. No waiver of any provisions of this Agreement or any other Loan Document or consent to any departure by any Grantor therefrom shall in any event be effective unless the same shall be permitted by paragraph (b) below, and then such waiver or consent shall be effective only in the specific instance and for the purpose for which given. No notice to or demand on any Grantor in any case shall entitle such Grantor to any other or further notice or demand in similar or other circumstances.

(b) Neither this Agreement nor any provision hereof may be waived, amended or modified except pursuant to an agreement or agreements in writing entered into between any Grantor and the Collateral Agent, with the prior written consent of the Required Secured Parties; provided, however, that except as provided herein or in the other Loan Documents, no such agreement shall amend, modify, waive or otherwise affect the rights or duties of the Collateral Agent hereunder without the prior written consent of the Collateral Agent.

SECTION 6.06. <u>Security Interest Absolute</u>. All rights of the Collateral Agent hereunder, the security interests granted hereunder and all obligations of the Grantors hereunder shall be absolute and unconditional.

SECTION 6.07. Survival of Agreement. All covenants, agreements, representations and warranties made by any Grantor herein and in the certificates or other instruments prepared or delivered in connection with or pursuant to this Agreement or any other Loan Document shall be considered to have been relied upon by the Secured Parties and shall survive the making by the Lenders of the Loans, the execution and delivery to the Lenders of the Loan Documents and the issuance by the Fronting Banks of the Letters of Credit regardless of any investigation made by the Secured Parties or on their behalf and shall continue in full force and effect so long as the principal of or any accrued interest on any Loan or L/C Disbursement or any Fee or any other amount payable under or in respect of this Agreement or any other Loan Document is outstanding and unpaid and so long as the Commitments have not been terminated.

SECTION 6.08. <u>Binding Effect; Assignments</u>. This Agreement shall become effective as to any Grantor when a counterpart hereof executed on behalf of such Grantor shall have been delivered to the Collateral Agent, and thereafter shall be binding upon such Grantor and its respective successors and assigns, and shall inure to the benefit of such Grantor and the

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Secured Parties and their respective successors and assigns, except that no Grantor shall have the right to assign its rights hereunder or any interest herein (and any such attempted assignment shall be void) except as expressly contemplated by this Agreement or the other Loan Documents.

SECTION 6.09. <u>Termination; Release</u>. (a) This Agreement and the security interests granted hereby shall terminate when all the Obligations have been indefeasibly paid in full, the Commitments have been terminated and no Letters of Credit are outstanding.

- (b) Upon any sale by any Grantor of any Collateral that is permitted under the Credit Agreements or upon the effectiveness of any written consent to the release of the Security Interest in any Collateral pursuant to Section 9.08 of the Credit Agreements, the Security Interest in such Collateral shall be automatically released.
- (c) In connection with any termination or release pursuant to paragraphs (a) and (b), the Collateral Agent shall execute and deliver to each Grantor, at such Grantor's expense, all Uniform Commercial Code termination statements, documents in order to terminate any United States Patent and Trademark Office filings and similar documents that such Grantor shall reasonably request to evidence such termination or release. Any execution and delivery of termination statements or documents pursuant to this Section 6.09 shall be without recourse to or warranty by the Collateral Agent.

SECTION 6.10. WAIVER OF JURY TRIAL. EACH PARTY HERETO HEREBY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT OR ANY OF THE OTHER LOAN DOCUMENTS. EACH PARTY HERETO (A) CERTIFIES THAT NO REPRESENTATIVE, AGENT OR ATTORNEY OF ANY OTHER PARTY HAS REPRESENTED, EXPRESSLY OR OTHERWISE, THAT SUCH OTHER PARTY WOULD NOT, IN THE EVENT OF LITIGATION, SEEK TO ENFORCE THE FOREGOING WAIVER AND (B) ACKNOWLEDGES THAT IT AND THE OTHER PARTIES HERETO HAVE BEEN INDUCED TO ENTER INTO THIS AGREEMENT AND THE OTHER LOAN DOCUMENTS, AS APPLICABLE, BY, AMONG OTHER THINGS, THE MUTUAL WAIVERS AND CERTIFICATIONS IN THIS SECTION 6.10.

SECTION 6.11. <u>Severability</u>. In the event any one or more of the provisions contained in this Agreement or in any other Loan Document should be held invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein and therein shall not in any way be affected or impaired thereby (it being understood that the invalidity of a particular provision in a particular jurisdiction shall not in and of itself affect the validity of such provision in any other jurisdiction). The parties shall endeavor in goodfaith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

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- SECTION 6.12. Jurisdiction: Consent to Service of (a) Each Grantor hereby irrevocably and unconditionally Process. submits, for itself and its property, to the nonexclusive jurisdiction of any New York State court or Federal court of the United States of America sitting in New York City, and any appellate court from any thereof, in any action or proceeding arising out of or relating to this Agreement or the other Loan Documents, or for recognition or enforcement of any judgment, and each of the parties hereto hereby irrevocably and unconditionally agrees that all claims in respect of any such action or proceeding may be heard and determined in such New York State or, to the extent permitted by law, in such Federal court. Each of the parties hereto agrees that a final judgment in any such action or proceeding shall be conclusive and may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by law. Nothing in this Agreement shall affect any right that any Loan Party or Secured Party may otherwise have to bring any action or proceeding relating to this Agreement or the other Loan Documents against any Grantor or any Secured Party or its properties in the courts of any jurisdiction.
- (b) Each Grantor and each Secured Party hereby irrevocably and unconditionally waives, to the fullest extent it may legally and effectively do so, any objection that it may now or hereafter have to the laying of venue of any suit, action or proceeding arising out of or relating to this Agreement or the other Loan Documents in any New York State or Federal court. Each of the parties hereto hereby irrevocably waives, to the fullest extent permitted by law, the defense of an inconvenient forum to the maintenance of such action or proceeding in any such court.
- (c) Each party to this Agreement irrevocably consents to service of process in the manner provided for notices in Section 6.02. Nothing in this Agreement will affect the right of any party to this Agreement to serve process in any other manner permitted by law.
- SECTION 6.13. <u>Counterparts</u>. This Agreement may be executed in two or more counterparts, each of which shall constitute an original, but all of which, when taken together shall constitute but one instrument, and shall become effective as provided in Section 6.08.
- SECTION 6.14. <u>Headings</u>. Article and Section headings used herein are for convenience of reference only, are not part of this Agreement and are not to affect the construction of, or to be taken into consideration in interpreting, this Agreement.
- SECTION 6.15. Additional Grantors. Pursuant to Section 5.11 of the Credit Agreements, each U.S. Subsidiary that was not in existence or not a U.S. Subsidiary on the date thereof is required to enter into this Agreement as a Grantor upon becoming a U.S. Subsidiary. Upon execution and delivery, after the date hereof, by the Collateral Agent and such U.S. Subsidiary of an instrument in the form of Annex 1, such U.S. Subsidiary shall become a Grantor hereunder with the same force and effect as if originally named as a Grantor hereunder. The execution and delivery of any such instrument shall not require the consent of any Grantor hereunder. The rights and obligations of each Grantor

{NYCORP; 697656.4:4336D:11/05/1998--2:37p}

A CONTRACT BUILDING STATE OF



IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement as of the day and year first above written.

UCAR INTERNATIONAL INC.

by Muhelle J. Ride

Name: Michelle F. Rider Title: Attorney in Tack

UCAR GLOBAL ENTERPRISES INC.

bv

Name: Mhelle F. Rider Title: Honey-in-Fact

EACH OF THE SUBSIDIARY GRANTORS LISTED ON SHEDULE VII HERETO

Name: Mikelle F. Rider

Name: Michelle F Kider Title: Attemy-in-Fact

THE CHASE MANHATTAN BANK, as Collateral Agent

Name:

Title:

[NYCORP; 697656.4:4336D:11/05/1998--2:37p]

#### PATENTS AND PATENT APPLICATIONS

Serial No. or

Issue or

والمسترين والمراجع والمنافق والمنافق والمراجع والمنافق وا

Patent No. Inventor Country File Date Title

SEE ATTACHED

[NYCORP: 697656.4:4336D:11/05/1998--2:37p]

### **COMPUTER CODE DESIGNATIONS**

**CAER** Carbon Electrode Related

CASP Carbon Specialty

CMP UCAR Composites

CSV Carbon Savoie

FLXGR Flexible Graphite Related

**GRER** Graphite Electrode Related

**GRSP** Graphite Specialty

NCB Not Current Business

SCS Spray Cool System

### F. J. McCARTHY



BUSINESS TRANSPIRENTIAL

**REEL: 1826 FRAME: 0106** 

### COPYRIGHT REGISTRATIONS AND COPYRIGHT REGISTRATION APPLICATIONS

Registration No.

Country

Issue or *File Date* 

Title

[NYCORP;697656.4:4336D:11/05/1998--2:37p]

TRADEMARK REEL: 1826 FRAME: 0107

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TRADE NAMES

[NYCORP; 697656.4:4336D:11/05/1998--2:37p]

LIENS ON

[NYCORP; 697656.4:4336D:11/05/1998--2:37p]

are to consider

SCHEDULE VI TO INTELLECTUAL PROPERTY SECURITY AGREEMENT

Offices Where Financing Statements Need to be Filed

[NYCORP: 697656.4:4336D:11/05/1998--2:37p]

## SUBSIDIARY GRANTORS

UCAR International Inc.

UCAR Global Enterprises Inc.

UCAR Carbon Company Inc.

UCAR Carbon Technology Corporation

UCAR Holdings Inc.

UCAR Holdings II Inc.

UCAR Holdings III Inc.

UCAR International Trading Inc.

Union Carbide Grafito, Inc.

UCAR Composites Inc.

[NYCorp; 697656.4:4336D:11/09/1998--4:32p]

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TRADEMARK REEL: 1826 FRAME: 0111

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SUPPLEMENT NO. dated as of
[ ], to the Intellectual Property
Security Agreement dated as of April 22,1998, as
amended and restated as of November 10, 1998 (the
"Intellectual Property Security Agreement"), among
UCAR INTERNATIONAL INC., a Delaware corporation
("UCAR"), UCAR GLOBAL ENTERPRISES INC., a Delaware
corporation (the "Borrower"), each of the U.S.
Subsidiaries (such term and each other capitalized
term used but not defined having the meaning given
it in the Intellectual Property Security
Agreement, and if not defined therein, having the
meaning given it in Article I of the Credit
Agreements), party thereto (together with the
Borrower, the "Grantors") and THE CHASE MANHATTAN
BANK, a New York banking corporation, as
collateral agent (the "Collateral Agent") for the
Secured Parties.

A. Reference is made to (i) the Credit Agreement dated as of October 19, 1995, as amended and restated as of March 19, 1997 and November 10, 1998 (as the same may be amended, supplemented or otherwise modified from time to time, the "Existing Credit Agreement"), among UCAR, the Borrower, the Subsidiary Borrowers party thereto, the Lenders party thereto, the Fronting Banks party thereto and The Chase Manhattan Bank, as administrative agent and collateral agent and (ii) the Credit Agreement dated as of November 10, 1998, among UCAR, the Borrower, UCAR S.A., the Lenders party thereto, The Chase Manhattan Bank, as administrative agent and collateral agent, Credit Suisse First Boston, as syndication agent, and Morgan Guaranty Trust Company of New York, as syndication agent (as the same may be amended, supplemented or otherwise modified from time to time, the "Tranche C Facility Credit Agreement", and together with the Existing Credit Agreement, the "Credit Agreements").

B. The Borrower and the U.S. Subsidiaries have entered into the Intellectual Property Security Agreement in order to induce the Lenders to make Loans and the Fronting Banks to issue Letters of Credit pursuant to, and upon the terms and subject to the conditions specified in, the Credit Agreements. Pursuant to Section 5.11 of the Credit Agreements, each U.S. Subsidiary that was not in existence or not a U.S. Subsidiary on the date thereof is required to enter into the Intellectual Property Security Agreement as a Grantor upon becoming a U.S. Subsidiary. Section 6.15 of the Intellectual Property Security Agreement provides that additional U.S. Subsidiaries may become Grantors under the Intellectual Property Security Agreement by execution and delivery of an instrument in the form of this Supplement. The undersigned (the "New Grantor") is a U.S. Subsidiary and is executing this Supplement in accordance with the requirements of the Credit Agreements to become a Grantor under the Intellectual Property Security Agreement in order to induce the Lenders to make additional Loans and the Fronting Banks to issue additional Letters of Credit and as consideration for Loans previously made and Letters of Credit previously issued.

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[NYCORP; 697656.4:4336D:11/05/1998--2:37p]

Accordingly, the Collateral Agent and the New Grantor agree as follows:

SECTION 1. In accordance with Section 6.15 of the Intellectual Property Security Agreement, the New Grantor by its signature below becomes a Grantor under the Intellectual Property Security Agreement with the same force and effect as if originally named therein as a Grantor and the New Grantor hereby agrees to all the terms and provisions of the Intellectual Property Security Agreement applicable to it as a Grantor thereunder. Each reference to a "Grantor" in the Intellectual Property Security Agreement shall be deemed to include the New Grantor. The Intellectual Property Security Agreement is hereby incorporated herein by reference.

SECTION 2. The New Grantor represents and warrants to the Secured Parties that this Supplement has been duly authorized, executed and delivered by it and constitutes its legal, valid and binding obligation, enforceable against it in accordance with its terms, subject to the effects of applicable bankruptcy, insolvency or similar laws effecting creditors' rights generally and equitable principles of general applicability.

SECTION 3. This Supplement may be executed in two or more counterparts, each of which shall constitute an original, but all of which, when taken together, shall constitute but one instrument. This Supplement shall become effective when the Collateral Agent shall have received counterparts of this Supplement that, when taken together, bear the signatures of the New Grantor and the Collateral Agent.

SECTION 4. Except as expressly supplemented hereby, the Intellectual Property Security Agreement shall remain in full force and effect.

## SECTION 5. THIS SUPPLEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.

SECTION 6. In case any one or more of the provisions contained in this Supplement should be held invalid, illegal or unenforceable in any respect, neither party hereto shall be required to comply with such provision for so long as such provision is held to be invalid, illegal or unenforceable, but the validity, legality and enforceability of the remaining provisions contained herein and in the Intellectual Property Security Agreement shall not in any way be affected or impaired. The parties hereto shall endeavor in good-faith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

SECTION 7. All communications and notices hereunder shall be in writing and given as provided in the Credit Agreements. All communications and notices hereunder to the New Grantor shall be given to it at the address set forth under its signature, with a copy to the Borrower.

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[NYCORP; 697656.4:4336D:11/05/1998--2:37p]

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IN WITNESS WHEREOF, the New Grantor and the Collateral Agent have duly executed this Supplement to the Intellectual Property Security Agreement as of the day and year first above written.

[NAME OF NEW GRANTOR],

by

Name:
Title:
Address:

THE CHASE MANHATTAN BANK, as
Collateral Agent,

by

Name:

Title:

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[NYCORP; 697656.4:4336D:11/05/1998--2:37p]

TRADEMARK REEL: 1826 FRAME: 0114

The second section

DURACAST  Country: Denmark	DURABURN  Country: United States of America	C-CAT  Country: United States of America	Thursday, November 05, 1998 Trademark Name
GSPEC MR 1005 Registered 0592/95 2  Owner: UCAR Carbon Technology Corp. 25-Jan-1995 2  Agent: BUDD Budde Schou & Co.  Classes: 19 Remarks:  Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	Owner: UCAR Carbon Technology Corp. Classes: 1, 17, 19  Remarks: Search ordered 10/7/98. Request to file application 10/15/98.  Application filed via express mail 10/27/98.  Goods: graphite blocks for use in electric discharge machining	_	Trademark List  Division Attorney(s) Case Number Status Number/Filing
2532/95 21-Apr-1995	8. Request to 98. xpress mail	2051081 08-Apr-1997	Registration Number/Date
21-Apr-2005		08-Apr-2007	Renewal Date
		08-Apr-2007 25-Feb-1995	Page: 1 First Use Date

Country: Ireland, Republic of Owner: UCAR Carbon Technology Corp. Goods: Gratical Inc.	Classes: 19 Goods: Graphite ble fabrication of General Control	many	Classes: 19 Goods: Graphite bl	псе	Classes: 1 Goods: Graphite b fabrication	Country: Finland Owner: UCAR Carbon Technolog Agent: BERG Berggren OY AB	DURACAST GSPEC MR	Thursday, November 05, 1998  Division
Owner: UCAR Carbon Technology Corp.  Classes: 1  Classes: 1  Registered  Remarks: Re	Coper 19 Remarks: Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	GSPEC MR 1008 Registered Owner: UCAR Carbon Technology Corp. Agent: LOUI Louis, Pohlau, Lohrentz & Sege	Classes: 19  Remarks: Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	Owner: UCAR Carbon Technology Corp.  Agent: RINU Rinuy, Santarelli	Remarks: Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	Owner: UCAR Carbon Technology Corp.  Agent: BERG Berggren OY AB		Trademark List
1146/95 17-Feb-1995		395036054 28-Jan-1995				1 490/95 30-Jan-1995	Application Number/Filing	
173285 1 17-Feb-1995		39503605 28-Sep-1995		95/559,893 23-Feb-1995		143965 20-May-1996	Registration Number/Date	
17-Feb-2002		28-Sep-2005		23-Feb-2005	·	20-May-2006	Renewal Date	
-							First Use Date	Page: 2

Thursday, November 05, 1998	Trademark List	List				Page: 3
Trademark Name	Division Attorney(s) Case Number	tatus	Application	Registration	Renewal	First Use
DURACAST	GSPEC MR 1010	red	96718	96718	25-Jan-2002	
Country: Israel	Owner: UCAR Carbon Technology Corp.	ı	26-Jan-1995	08-Oct-1996		
	Agent: MULF A.E. Mulford					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	lling and				
DURACAST	GSPEC MR 1011	Registered	95C/000868	712925	22-Feb-2005	
Country: Italy	Owner: UCAR Carbon Technology Corp.		22-Feb-1995	13-Jun-1997		
	Agent: BARZ Ing. Barzano & Zaardo Roma S.P	ıS.P				
	Classes: 1	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ling and				
DURACAST	GSPEC MR 1012	Registered	95/0653	173947	06-Jun-2006	
Country: Norway	Owner: UCAR Carbon Technology Corp.		02-Feb-1995	06-Jun-1996		
	Agent: BERG Bergen Patentkontor					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ling and				
DURACAST	GSPEC MR 1013	Registered	306816	306816	03-Jan-2006	
Country: Portugal	Owner: UCAR Carbon Technology Corp.		27-Jan-1995	1996		
	Agent: CUNH A.G. Da Cunha Ferreira LDA					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ling and				

Division  Attorney(s)  Case Number  Status  Number/Filing  Number/Date  GSPEC MR  Owner: UCAR Carbon Technology Corp.  Agent: POLO Carlos Polo  Classes: 1  Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.  GSPEC MR  Owner IICAR Carbo  Registered  Application  Number/Filing  Number/Filing  1948738  02-Feb-1995  Remarks:  GSPEC MR  1015  Registered  95-0785  307141	er Status Application Registered  Remarks: g, rolling and Registered 95-0785
Application Number/Filing	Application Registration Number/Filing Number/Date ed 1948738 02-Feb-1995
Registration Number/Date 1948738 02-Feb-1995	ration er/Date 8 8 -1995
1159	Renewal Date 02-Feb-2005 22-Dec-2005

Trademark Name  Division  Attorney(s)  Case Number  Status  DURAPRESS  GSPEC MR  Country: United States of America  Classes: 1  Classes: 1
Attorney(s) Case Number  GSPEC MR 1200
Division Attorney(s) Case Number

Country: United States of America

Owner: UCAR Carbon Technology Corp. Classes: 17

08-Nov-1996 15-Sep-1998 Remarks: Statement of Use accepted 8/6/98.

Registered

75/194888

2189843

15-Sep-2008 23-Dec-1997

MR.

Goods: Flexible graphite sheet gasket material for use

in industrial applications.

EXPANDOGRAF

Thursday, November 05, 1998	1998		Trademark List	List				Page: 6
Trademark Name		Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFGUARD		MR	1027	Published	327,031			
Country: European Community	unity	Owner: UCAR Carbon Technology Corp.	chnology Corp.		20-Aug-1996			
Designated Countries	ntries	Agent: GEVE Gevers & Partners	Partners					
Pul	Published	Classes: 1		Remarks:				
BX Pul	Published	Goods: Graphite particles for use in the manufacture of	s for use in the manuf	acture of				
DE Pul	Published	fire retardant pro-	fire retardant products in int. class 1.					
DK Pul	Published			•				
ES Pul	Published							
FI Pul	Published							
FR Pul	Published							
GB Pul	Published							
GR Pul	Published							
IE Pul	Published							
IT Pul	Published							
MC Pul	Published							
PT Put	Published							
SE Pul	Published							
GRAFGUARD		MR	1028	Registered	113097/96	4166366	10-Jul-2008	
Country: Japan		Owner: UCAR Carbon Technology Corp.	schnology Corp.		08-Oct-1996	10-Jul-1998		
		Agent: SUZU Suzuye & Suzuye	z Suzuye					

Classes: 1

Remarks: Renewal due between 6/11/07 and

7/10/08.

Goods: Graphite particles for use in the manufacture of fire retardant products, in Int. Class 1.

	Country: United States of America Owner: 1	GRAFGUARD	Trademark Name	Thursday, November 05, 1998	
· ·	Owner: UCAR Carbon Technology Corp.	MR	Attorney(s)		
	chnology Corp.	1029	Case Number	Trademark List	
Remarks: 1		Registered	Status	ist	
Remarks: Also searched charguard.  Applicant is owner of Reg. Nos.  1,681,196 for grafoil and 1,812,925  for Grafkote (by Examiner's	20-May-1996 04-Nov-1997	75/106979	Application Number/Filing		
uard. of Reg. Nos. l and 1,812,925 miner's	04-Nov-1997	2111370	Number/Date Date	Docist	
		04-Nov-2007	Date	Page Parent Use	
			Date	Page: 7	

Goods: Graphite particles for use in the manufacture of fire retardant products

Thursday, November 05, 1998			
60 100 00 100 00 100 00 100 00 100 00 100 00	Trademark List	rk List	Page: 8
Trademark Name	Division  Attorney(s) Case Number	Application Registration	Renewal
Country: United States of A	MR 1030		2
Allenca	Owner: UCAR Carbon Technology Corp. Classes: 17	01-Nov-1991 21-Dec-1993 Remarks: Also conducted full searches for	93
			ΛΙ
		searches were conducted for Monofilm, Monograf, Monofoil,	
		Soloscal, Solograf, Grafplas, Graf-	77
		Kote, Super-Graf, Tuff-Foil and	T
		Consent given by Dixon	
		restricted goods: flexible graphite and polymer composite sheets and	
	Goods: Flexible graphite and polymer composite sheets and rolls for use as gaskets in the fluid sealing and internal combustion engine industries.		
GRAFITE			
Country: United States of America	Owner: UCAR Carbon Tachnology C	Pending	
	Classes: 1	21-Oct-1998 Remarks: ITU application filed via express	

Goods: natural graphite-based blocks and shapes for use in industrial high temperature applications.

mail 10/21/98.

Thursday, November 05, 1998	Trademark List	\ List			Page: 9
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration	Renewal I	First Use P
GRAFOIL	MR 1034	<u> </u>	1278798	-1998	
Country: Argentina	Owner: UCAR Carbon Technology Corp.		08-Mar-1988		
	Agent: MARV Marval, O'Farrell & Mairal				
	Classes: 22	Remarks: (See also Reg. No. 1,278,797).  Assignment filed for recordal  3/1/90; recorded 8/3/92. License filed 5/9/90.	,278,797). r recordal /92. License		
	Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbon, foam, strands, filaments, for textile use.	ts,			
GRAFOIL	MR 1035	Renewing	1278797	08-Mar-1998	
Country: Argentina	Owner: UCAR Carbon Technology Corp.		08-Mar-1988		
	Agent: MARV Marval, O'Farrell & Mairal				
	Classes: 1/	Remarks: (This is old Reg. No. 897,212 split between classes 17 and 22) Assignment filed 3/1/90; recorded 8/28/92 License filed 5/9/90.	. 897,212 split .nd 22) 1/90; recorded		
	Goods: Carbon and graphite in the form of flexible webs, cloth, individual or laminated sheets, strips, tapes, ribbon, foam, strands, filaments,	ts,			
GRAFOIL	MR 1036	Repistered	1381807	31 May 2000	
Country: Argentina	Owner: UCAR Carbon Technology Corp.	:	1990	2 * **********************************	
	Agent: MARV Marval, O'Farrell & Mairal				

Classes: 17

Remarks:

Goods: Gaskets and packing rings.

Thursday, November 05, 1998		Trademark List	ist		7		Page: 10
Trademark Name	Division Attorney(s)	Case Number	Status	Application	Registration	Renewal	First Use
GRAFOIL	MP	1027		6		2 4 7 7	base
	MR	1037	Registered		A288753	11-Jul-2006	
Country: Australia	Owner: UCAR Carbon Technology Corp.	chnology Corp.			11-Jul-1982		
	Agent: CALL Callinan Lawrie	Lawrie					
	Classes: 17		Remarks: A	Assignments recorded 11/10/89	d 11/10/89.		
	Goods: Carbon and graphite in the form of sheets, strips, tapes and ribbons, all of the foregoin being foil or laminates of foil and all being goods included in this class.	Carbon and graphite in the form of sheets, strips, tapes and ribbons, all of the foregoing being foil or laminates of foil and all being goods included in this class.	ts, joing ing				
GRAFOIL	MR	1038	Registered	750133090	750133090	14-Nov-2004	
Country: Brazil	Owner: UCAR Carbon Technology Corp.	chnology Corp.	ı	16-Jul-1975	35		

Goods:

Agent: DANI Daniel & Cia

Remarks: Opposition filed against Nacional de Grafite Ltda. - GRAFOIL appln. No. 820695084 - 9/98.

Opposition filed against Juntalit Ind e Com. - GRAFOIL reg. No.

816459495 - court action pending as of 10/98.

Country: Cliina	GRAFOIL	Country: Canada	Trademark Name GRAFOIL	Thursday, November 05, 1998
Owner: UCAR Carbon Technology Corp.  Agent: CCPIT CCPIT Patent and Trademark Law  Ciasses: i5  Remarks: Assignment and license recorded.  Goods: Carbon and Graphite flexible webs, sheets, strips, tape, foam, strands and flaments.	Remarks: Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.  Amended 9/26/69 to include gaskets and packing rings.  Amended 7/31/73 to include graphite foam.	Owner: UCAR Carbon Technology Corp.  Agent: SIM Sim & McBurney  Registered 137196 04-Sep-2009  04-Sep-1964	Trademark List  Division  Attorney(s)  Case Number  Status  Status  Application  Application  Registration  Renewal  First Use  Number/Filing  Number/Date  Date	

Thursday, November 05, 1998		Trademark List	ist				Page: 12
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR	1042	Registered	375258	206335	28-Jan-2008	
Country: Colombia	Owner: UCAR Carbon Technology Corp.	chnology Corp.		11-Feb-1993	29-Jan-1998		
	Agent: CAVE Cavelier Abogados	Abogados					
	Classes: 17		Remarks: 7	This record was entered for	ered for		
				purposes of the opposition to Grafoi lby Textiles de Asbestos LTDA - opposition successful 12/97.  Venezuelan Reg. No. 84,627-F dated 7/22/77 cited as priority.	osition to Grafoi stos LTDA - stos LTDA - ul 12/97.  b. 84,627-F as priority.		
	Goods: Rubber, gutta-percha, gum asbestos, mica and goods made from these materials and not	Rubber, gutta-percha, gum asbestos, mica goods made from these materials and not	ica and				
	included in other form for use in mand insulating mand	included in other classes: plastics in extruded form for use in manufacture; packing, stopping and insulating materials, flexible pipes, not of	stopping not of				
GRAFOIL	MR	1043	Registered	375259	152993	28-Feb-2004	
Country: Colombia	Owner: UCAR Carbon Technology Corp.	chnology Corp.		11-Feb-1993	28-Feb-1994		
	Agent: CAVE Cavelier Abogados	Abogados					
	Classes: 1		Remarks: (	Opposition to CRAFOL pending as	OL pending as		

Goods:

Remarks: Opposition to CRAFOL pending as of 10/98.

Thursday, November 05, 1998		Trademark List	List				Page: 13
	Division			Application	Registration Renewal First Use	Renewal	First Use
Trademark Name	Attorney(s)	Case Number	Status	Number/Filing	Number/Date	Date	Date
GRAFOIL	MR	1044	Registered	ğ	674/1981 13-Feb-2001	13-Feb-2001	
Country: Denmark	Owner: UCAR Carbon Technology Corp.	echnology Corp.			13-Feb-1981		
	Agent: BUDD Budde Schou & Co.	chou & Co.					

Goods: Flexible webs, cloths, individual or laminated sheets, strips, ribbons and foam. All the said goods made wholly of carbon and graphite for use as packing materials, including packing rings, and as insulating and sealing materials.

Classes: 17

Remarks: Assignment recorded 2/7/90.

Thursday, November 05, 1998	5, 1998		Trademark List	ist				Page: 14
Trademark Name		Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL		MR	1045	Registered	37291	37291	01-Apr-2006	
Country: European Community	munity	Owner: UCAR Carbon Technology Corp.	echnology Corp.		01 <b>-Ap</b> r-1996	28-Jan-1998		
Designated Countries	ountries	Agent: GEVE Gevers & Partners	k Partners					
AT F	Registered	Classes: 1 17		Remarks:				
ВX	Registered	Goods: Carbon and graphite in the form of flexible	bhite in the form of flexi	ble				
DE F	Registered	webs, cloths, inc	webs, cloths, individual or laminated sheets,	ets,				
DK F	Registered	strips, tapes, ribi filaments in Int	strips, tapes, ribbons, toam, strands and filaments in Int. Class 1. Gaskets, packing	n o				
ES F	Registered	rings, insulating	rings, insulating and sealing materials in Int.	n Int.				
FI	Registered	Class 17.						
FR F	Registered							
GB I	Registered							
GR I	Registered							
IE I	Registered							
IT I	Registered							
MC I	Registered							
PT	Registered							
SE	Registered							

Country: Ireland, Republic of	GRAFOIL	Country: Greece	GRAFOIL	Country: Finland	Trademark Name GRAFOIL
Owner: UCAR Carbon Technology Corp.  Agent: KELL F.R. Kelly & Co.  Classes: 1  Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts; graphite foam in class 1.	Classes: 17  Remarks: Assignment recorded 1/24/90.  Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	MR 1047 Registered 5  Owner: UCAR Carbon Technology Corp.  Agent: VAYA Vayanos Kostopoulos 0	Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.  Remarks: Assignment recorded 12/14/89.  License recorded 12/14/89.  License recorded 12/14/89.  Strips, tapes, ribbons, foam, strands, filaments,	Registered Registered Registered Registered	Trademark List  Division  Attorncy(s) Case Number Status Number/Filing  MR
154738 18-Nov-1999 18-Nov-1992	24/90. e filed.	59,625 05-Sep-2007 05-Sep-1997	(2/31/89). (789.	7,816 06-Oct-2000 06-Oct-1980	Registration Renewal Number/Date Date
99		)07		.000	Page: 15 val First Use Date

	5.				
Thursday, November 05, 1998	Trademark List	List			Page: 16
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration	Renewal	First Use
GRAFOIL	MR 1051	red	154739	18-Nov-1999	PAI
Country: Ireland, Republic of	Owner: UCAR Carbon Technology Corp.		18-Nov-1992		
	Agent: KELL F.R. Kelly & Co.				
	Classes: 17	Remarks: Associated with GRAFOIL appln. No. 6094/92.	AFOIL appln.		
		Worldwide consent with Societe Gravograph (GRAVOFOIL)	with Societe /OFOIL)		
Charon	Goods: gaskets and packing rings				
Country Issan	MR 1052	Registered	1664036	23-Feb-2004	
Country, Japan	Owner: UCAR Carbon Technology Corp.		23-Feb-1984		
	Agent: SUZU Suzuye & Suzuye				
	Classes: 34	Remarks: Original certificate lost (sent to Traub 3/84). Assignment recorded 11/5/90.	lost (sent to		
	Goods: Individual or laminated sheets, strips, and foam and all made of carbon and graphite.				
GRAFOIL	MR 1053	Registered 63714/88	2326663	30-Aug-2001	
Country, Japan	Owner: UCAR Carbon Technology Corp.	06-Jun-1988	30-Aug-1991		
	Agent: SUZU Suzuye & Suzuye				

Classes: 16

Remarks: This replaces Reg. No. 1,247,556.

Lapsed due to failure by Balogh to

renew.

Goods: Flexible webs, knittings, felts, non-woven fabrics, tapes and ribbons, all made of carbon or

graphite, and all other goods in the class.

Thursday, November 05, 1998	Tr	Trademark List				Page: 17
Trademark Name	Division Attorncy(s) Cas	Case Number Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR 1056	6 Registered	ered	201991	10-Jan-2002	A PART OF THE PROPERTY OF THE
Country: Mexico	Owner: UCAR Carbon Technology Corp.	оду Согр.		10-Jan-1992		
	Agent: BECE Becerrill, Coca & Beccrril, S.	& Becerril, S.				
	Classes: 35	Remarks:	<ul><li>s: Assignment and license recorded 2/9/93.</li></ul>	se recorded		
	Goods: Gaskets and packing rings.	ıgs.				
GRAFOIL	MR 1057	7 Registered	red	202353	10-Jan-2002	
Country: Mexico	Owner: UCAR Carbon Technology Corp.	ogy Corp.		10-Jan-1992		
	Classes: 13	æ Devettil, 5.  Remarke				
			K.3			
	Goods: Carbon and Graphite in the form of flexible	the form of flexible				
	webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments	or laminated sheets, am, strands, filaments.				
GRAFOIL	MR 1058	8 Registered	red	120039	12-Jul-2012	
Country: New Zealand	Owner: UCAR Carbon Technology Corp. Classes: 17	gy Corp. Remarks:	12-Jul-1984 s: Assignment recorded 8/21/90.	12-Jul-1984 8/21/90.		

Goods: Carbon and Graphite in the form of flexible

gaskets and packing rings.

webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments,

Thursday, November 05, 1998		Trademark List	st				Page: 18
Trademark Name	Division Attorney(s)	Case Number	Status 1	Application Number/Filing	Registration Number/Date	Renewal	First Use
GRAFOIL	MR	1059	red		104052	17-Jan-2000	
Country: Norway	Owner: UCAR Carbon Technology Corp.	nology Corp.			17-Jan-1990		
	Agent: BERG Bergen Patentkontor	ntkontor					
	Classes: 17		Remarks: As	Remarks: Assignment and license recorded 10/4/89.	nse recorded		
	Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets.	Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets.	ole ets.				
	gaskets and packing rings	gaskets and packing rings.	ients,				
GRAFOIL .	MR	1061	Registered	95298	95298	17-Dec-2017	
Country: Famppines	Owner: UCAR Carbon Technology Corp.	nology Corp.		19-Sep-1994	17-Dec-1997		
	Agent: SIGU Siguion Reys	Siguion Reyna, Montecillo & On					
	Classes: 9		Remarks: Th	Remarks: This application replaces Reg. No. 25,533.	aces Reg. No.		
	Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial art	Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and flaments for general use in the industrial arts	çs.				
GRAFOIL	MR	1064	Registered	75/3634	75/3634	14-Jul-2005	
Country: South Africa	Owner: UCAR Carbon Technology Corp. Agent: ADAM Adams & Adams	ology Corp. lams		14-Jul-1975	14-Jul-1995		

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual filaments; gaskets and packing rings.

Classes: 17

Remarks: Assignment recorded 9/7/90.

indisday, november 05, 1998		Trademark List	ist				Page: 19
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR	1065	Registered	165401	165401	10-Nov-2008	
Country: Sweden	Owner: UCAR Carbon Technology Corp.	hnology Corp.		10-Nov-1978	10-Nov-1988		
	Agent: ALBI Albihns Patentbyra Stockholm A	itentbyra Stockholm A					
	Classes: 10			Remarks: Assignment recorded 2/23/90.	12/23/90.		
	Goods: Carbon and graphite in the form of flexible	te in the form of flexil	ble	C			
	webs, cloths, individual or strips, tapes, ribbons, foan gaskets and packing rings	webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	ets, ments,				
GRAFOIL	MR	1068	Pending	87013219			
Country: laiwan	Owner: UCAR Carbon Technology Corp.	hnology Corp.		24-Mar-1998			
	Agent: LEE Lee and Li						
	Classes: 17		Remarks: []	Remarks: [Replaces 87,440 - covered goods	overed goods		
	Goods: Gaskets and packing rings.	ig rings.					
GRAFOIL	MR	1069	Pending	87013218			
Country: Tanwan	Owner: UCAR Carbon Technology Corp.	mology Corp.		24-Mar-1998			
	Agent: LEE Lee and Li						

Classes: 1

Remarks: Replaces 87,440 (covered goods not

in use).

Goods: Graphite in the form of flexible webs, cloths,

sheets, strips, tapes, ribbons, strands, and filaments for general use in industry.

1 musuay, November 05, 1998	Ţ	•				
<b>.</b>	Division Trademark List	k List				Page: 20
GRAFOIL	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use
Country: Turkey	MR 1070	Registered	59627	99456	12-Sep-2007	
	Agent: DERIS Deris Patents and Trademark Ag	kAg	12-Sep-1977	12-Sep-1997		
	Roods: Carbon and Graphite in the form of flaville	emarks;	Assignment recorded 1990.	d 1990.		
	webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	Hexible  I sheets, filaments,				
Country: United Kingdom	Owner: UCAR Carbon Technology	Registered	938730	938730	25-Feb-2004	
	Agent: GRAN Grant, Spencer, Caisley & Port	ort	25-Feb-1969	25-Feb-1990		
	Classes: 17	Remarks:	Consent obtained from Courtaulds Ltd. 1/20/71	m Courtaulds		
	Goods: Carbon and graphite, all being fail or lowing.		Assignment recorded 4/22/91	4/22/91		
	of foil and in the form of sheets, strip, tapes and ribbons, all for use in manufactures, gaskets and	tapes and gaskets and				
GRAFOIL	materials.					
Country: United States of America	Owner IICAB Co.1.	Registered		758239	15-Oct-2003	1,4
	Classes: 1	Remarks: Hig	Remarks: High Temperature Materials. Inc	15-Oct-1983		

Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.

merged with UCC 3/1/66, recorded 3/29/66, Reel 136 Frame 526.

Thursday, November 05, 1998	Trademark List	List				Page: 21
Trademark Name	Division Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use
GRAFOIL	MR 1073	Registered		850235	04-Jun-2008	
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 17	Remarks:		04-Jun-1988		
	Goods: Gaskets and packing rings.					
GRAFOIL	MR 1204	Pending				
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 1	Remarks: N	21-Oct-1998  New application filed after 1196891	d after 1196891		
	Goods: Graphite paste for use as a pipe thread sealant or thread lubricant; injectable graphite particle packing for use in packing stuffing boxes on					,
GRAFOII						
Country: Venezuela	Owner: UCAR Carbon Technology Com	Registered	84627		22-Jul-2007	
	Agent: VALL Vallina Grisanti & Asociados			: :		
	Classes: 1	Remarks: A	Assignment recorded 1/3/94	11/3/94.		

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets,

applications filed by Juan

Fernandez Martinez; pending as of

Oppositions filed against GRAFOIL

10/98.

strips, tapes, ribbons, foam, strands, filaments.

Thursday, November 05, 1998	Trademark List	List	Page: 22
Trademark Name	Division Attorney(s) Case Number	Application Re	Registration Renewal First Use
GRAFUIL AND CHINESE	MR 1077	ered	16_Nov_1999
Country: Taiwan	Owner: UCAR Carbon Technology Corp.		1080
	Agent: LEE Lee and Li		1104 1707
	Classes: 92	Remarks: Assignment recorded 11/15/89.	.5/89.
	Goods: Gaskets and packing rings.	ביניטושי ורכסושים אי 10/70	
GRAFOIL AND KOREAN	MR 1079	Registered	
Country: Korea, South	Owner: UCAR Carbon Technology Corp.		24-Apr-1990
	Agent: KIM Kim, Shin & Yu		- Thr - 1 / 200
	Classes: 16	Remarks: Assignment recorded 4/17/90. License and address change	/90. 3e
	Goods: Natural graphite and graphite.		
GRAFUIL IN KATAKANA	MR 1080	Registered 1756787 175	1756787 25-Mar-2005
Country: Japan	Owner: UCAR Carbon Technology Corp.	25-Mar-1995 25-l	995
	Agent: SUZU Suzuye & Suzuye		
	Classes: 34	Remarks: Assignment recorded 11/5/90.	/90.
	Goods: Individual or laminated sheets, strips and foam, all made of carbon or graphite, and all other goods in the class.		
OKAPSHIELD	MR 1201	Pending 75/517642	Not recovered to
Commy. Chica pales of Allenca	Owner: UCAR Carbon Technology Corp. Classes: 1	Remarks: 13-Jul-1998	
	Goods: plates, cylinders and other materials for use as industrial heat shields, baffles or seals.	use as	

Thursday, November 05, 1998	Tradamant, I:	•				
Trademark Name	Division I rademark List		Amiliation			Page: 23
GRAPHI-TOOI	Attorney(s) Case Number	Status	Number/Filing	Number/Date	Renewal Date	First Use Date
Collifty: Treland Domital:	MR 1084	Registered	6100/92	154737	-1999	
commy, metalle, Republic of	Owner: UCAR Carbon Technology Corp.		18-Nov-1992	18-Nov-1997	10 1101 1///	
	Agent: KELL F.R. Kelly & Co.			10 1101 1772		
		Remarks:				
	Goods: Graphite tooling systems used in tooling carbon and/or graphite composites for use in the defense, satellite and aerospace industries.	carbon				
Country: Taiwan	MR 1085  Owner: UCAR Carbon Technology Corp.  Agent: LEE Lee and Li	Registered	81063363 23-Dec-1992	614602 10-Oct-1993	30-Sep-2003	
	Classes: 84 Goods: Graphite tooling machines.	Remarks:				
Country: United Kingdom	MR 1086 Owner: UCAR Carbon Technology Corp.	Registered		1518774	13-Nov-1999	
	& Port  or all the  class 7.	Remarks:				
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 7  Goods: Graphite tooling systems used in tooling containing systems used in tooling containing systems.	tere rks:	27-Jun-1990 28-Jul-1992 Section 8 & 15 accepted 3/23/98.		28-Jul-2002	
	and/or graphite composites for use in the defense, satellite and aerospace industries.	arbon				

Thursday, November 05, 1998	Trademark List			Page: 24
Trademark Name	Application	Registration	Renewal	
GSP Country: United States of America	Registered 723111	1546426	04-Jul-2009	09-Sep-1987
	Goods: Flexible graphite packing material used for fluid sealing in pumps and valves in the valve and pump packing industry.	12/11/95.		
GTS  Country: United States of America	MR 1089 Registered 784266 15 Owner: UCAR Carbon Technology Corp. 03-Mar-1989 05 Agent: ACFT Assistant Commissioner for Tra	1569027 05-Dec-1989	05-Dec-1999 07-Apr-1988	07-Арг-1988
BVBOECAN	Classes: 1  Remarks: Sections 8 & 15 accepted 12/4/95 Goods: Graphite paste used as pipe thread scalant, in  Class 1.	1 12/4/95.		
PrkOFOAM Country: Canada	MR 1091 Registered 17 Owner: UCAR Carbon Technology Corp. 27 Agent: SIM Sim & McBurncy	177988 27-Aug-1986	27-Aug-2001	
	Remarks: Goods: Carbon and graphite foam sold in sheet, bar and billet form for general use in the industrial arts			
RIBBON-PACK  Country: United States of America	stered 723722 21-Apr-1988	İ	30-May-2009	
		01 F 01 7 0 .		

Thursday, November 05, 1998		Trademark List	ist				Page: 25
Trademark Name	Division Attorney(s)	Case Number	Status 1	Application Number/Filing	Registration Number/Date	Renewal Date	First Use
SMART RAM	MR	1094	Registered	74/170580	1727628	27-Oct-2002 18-Apr-1991	18-Apr-1991
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 19	ююду Согр.	Remarks: Se	28-May-1991 27-Oct-1992 Sections 8 & 15 accented 3/3/98			
	Goods: Refractory ramming mixes, in class 19	mixes, in class 19.					
SOCKET MARKING FOR ELECTRODES	MR	1095	Registered		10010	7005	
Country: United States of America	Owner: UCAR Carbon Techn	iology Com	C		11. Day 1085		
	Classes: 19	wieß corp.	Remarks:		11-DeC-1360		
	Goods: Carbon electrodes and graphite electrodes.	ıd graphite electrodes	į,				
SUPER GTO	MR 1	1096	Pending	75/309150			
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 17	ююду Согр	Remarks	16-Jun-1997			

Goods: Flexible graphite sheets for use in internal

combustion engines and automotive heat shielding applications in Int. Class 1.

Thursday, November 05, 1998		Trademark List	List				Page: 1
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1099	Renewing		1301614	26-Jul-1998	
Country: Argentina	Owner: Union Carbide Corporation	rporation			26-Jul-1988		
	Agent: MARV Marval, O'Farrell & Mairal	O'Farrell & Mairal					
	Classes: 1		Remarks:	Undertaking given by UCC to Messrs. Alexander Gross [Berlin]	by UCC to Gross [Berlin]		
				Assignment/change of name recorded 6/2/94. Merger/change of name recorded 12/28/95.	of name name recorded		
	Goods: Graphite and carbon for general industrial uses.	bon for general indus	trial uses.				
UCAR	MR	1100	Renewing		1301621	26-Jul-1998	
Country: Argentina	Owner: Union Carbide Corporation	orporation			26-Jul-1988		
	Agent: MARV Marval, O'Farreli & Mairai	D'Farrell & Mairal					

Classes: 9

Remarks: Undertaking given by UCC to Messrs. Alexander Gross [Berlin]

(ECCAR).

Assignment/Change of name recorded 6/2/94.

Merger/Change of name recorded 12/28/95.

Goods: Electrodes and anodes and connecting pins for electrodes and anodes, electric dry cells and

batteries and storage batteries.

cominy. Australia	UCAR							Country: Australia	OUAK	Trademark Name	Thursday, November 05, 1998
Owner: Union Carbide Corporation Agent: CALL Callinan Lawrie	MR	Goods: Graphite and carbon for general industrial uses.				Classes: 1	Agent: CALL Callinan Lawrie	Owner: Union Carbide Corporation	MR	Division Attorney(s)	
orporation Lawrie	1102	bon for general industi					Lawrie	orporation	1101	Case Number	Trademark List
	Registered	rial uses.	Merger & CH/Name recorded 1/15/97.	1/22/93.	214,417.  Assignment and Ch/Name recorded	Remarks: Associated with 187,860 and			Renewing	Application Status Number/Filing	List
24-Oct-1988	A214417		e recorded		Mame recorded	7,860 and		24-Oct-1988	A214,416	Registration Number/Date	
	24-Oct-2002								24-Oct-1998	Renewal F	
										First Use Date	Page: 2

Classes: 9

Remarks: Associated with 187,860 and

214,416. Assignment & Ch/Name recorded 1/22/93. Merger & Ch/Name recorded Jan.15, 1997.

Goods: Electrodes and anodes and connecting pins for

electrodes and anodes.

Thursday, November 05, 1998		Trademark List	ict				Page: 3
Trademark Name	Division Attornav(s)			Application		Renewal First Use	First Use
		Case Mulliper	Status	Number/Fuing	Number/Date	Date	Date
UCAK	MR	1104	Registered	bd	60703	30-Nov-2007	
Country: Austria	Owner: Union Carbide Corporation	poration			30-Nov-1997		

Agent: PUCH Patentanwalte Puchberger

Classes: 4 22B 23

Remarks: Assignment/change of name

30-Nov-1997

Merger/change of name recorded recorded 4/28/92.

Shared with Ralston

8/21/95

Goods: Class 4: Flashlights, electric flashlights, construction and lining of furnaces, cupolas, shaped sections of carbon or graphite for the and valves all made of carbon and graphite and and columns and parts thereof. Pipses, tubes plating metal, gas operated apparatus of this apparatus for heating and h ardening and industrial heating installations. Class 23, being parts of industrial-chemical installations, adsorption, fractionating and stripping, towers chemical installations in the form of scrubbing industrial-chemical installations, industrialapparatus, flashlight appartus, flashlight bulbs, 22B, physical, chemical and electro-technical carbons for electric lighting purposes. Class electric lamp bulbs, electric torches and parts thereof, heat exchangers and parts thereof, lighting and heating apparatus, electric lamps,

Thursday, November 05, 1998		Trademark List	List				Page: 4
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1105	Registered	bd	1912	06-Jul-2001	
Country: Belize	Owner: Union Carbide Corporation Classes: 9	orporation	Remarks:		06-Jul-1987		
	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus included in class 9 (Schedule IV) for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.	Electric dry cells, electric batteries, electrodes anodes, connecting pins for electrodes and anodes, electric apparatus included in class 9 (Schedule IV) for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.	ectrodes, s and class 9 ldering, d trical				
UCAR	MR	1106	Renewing	<u>60</u>	37050-A	29-Nov-1997	
Country: Bolivia	Owner: Union Carbide Corporation	orporation			29-Nov-1987		

Goods: Graphite and carbon for general industrial uses.

Classes: 1

Remarks: Assignment to UCC Holdings recorded 12/5/90.
Assignment to UCC recorded 2/7/91.

Merger and change/name recorded 1/23/96.

Agent: LAND Landivar & Landivar

Country: Botswana	UCAR						Country: Bolivia	UCAR	Trademark Name	Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	Goods: Electrodes and anodes and connecting pins for same.			Classes: 9	Agent: LAND Landivar & Landivar	Owner: Union Carbide Corporation	MR	Division Attorney(s)	
rporation	1108	odes and connecting pi				& Landivar	rporation	1107	Case Number	Trademark List
	Registered	ns for	Merger and change/name recorded 1/23/96.	Assignment to UCC recorded 2/7/91.	Remarks: Assignment to UCC Holdings recorded 12/5/90.			Renewing	Application Status Number/Filing	st
06-Nov-1987	U.K. 1,000		/name recorded	C recorded	C Holdings		29-Nov-1987	37043-A	Registration Number/Date	
	06-Jul-2001							29-Nov-1997	Renewal Date	
									First Use Date	Page: 5

Classes: 9

Remarks: Based on U.K. Reg. No. 896862

dated 7/6/66.

Merger & ch/name recorded

1/10/96.

Agent: ADAM Adams & Adams

Goods: Electric dry cells, electric batteries, electrodes,

anodes, connecting pins for electrodes and

anodes, electric apparatus included in class 9 for cutting, welding, soldering, brazing, scarfing,

plating, heating and hardening metal, and

carbons for electrical purposes.

, 1270	Trademark List	List			Page: 6
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR 1109	red	007175370	09-Mar-2000	
Country: Brazil	Owner: Union Carbide Corporation Classes: 6	09-Mar-1990 Remarks: Merger/Ch of name recorded	09-Mar-1990 recorded		
		6/11/96.			
	Goods: Electrodes, anodes and connecting pins for				
	electrodes and anodes.	וסו ניסו			
IICAB					
OCAK	MR 1110	Registered	9244	04-Dec-2003	
Country: Bulgaria	Owner: Union Carbide Corporation		04-Dec-1993		
	Agent: MAGA Magarita V. Harizanova				
	Classes: 9	Remarks: Assignment & Ch/name recorded.  Merger/change of name 8/4/95.	ame recorded. ume 8/4/95.		
	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and				
	anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardenint metal, and carbon for electrical	welding, leating			
UCAR	purposes.	Registered	171262	1000	
Country: Canada	Owner: Union Carbide Corporation	,	18-Sep-1985	1	

Goods: Graphite electrodes and connecting pins

Remarks: Associated with Reg. No. 161262.

Assignment and change/name recorded 11/23/90.

Merger and change/name recorded.

therefor.

Thursday, M. Johnson							
inuisuay, November (15, 1998		Trademark List	List				Page: 7
Tradamost None	Division			Application	Registration Renewal First Use	Renewal	First Use
I raueillark Name	Attorney(s)	Attorney(s) Case Number	Status	Number/Filing	Number/Date	Date	Date
UCAR	MR	1113	Renewing	9	330814	18-May-1998	
Country: Chile	Owner: Union Carbide Comoration	oration			18-May-1988		

Goods: Natural mineral substances, elaborated and and carbon and all other goods in class 1. Graphite and carbon used as lubricants or prepared for industrial use, especially graphite

same, electric batteries and dry cells (class 9).

Electrodes, anodes and connecting pins for the

greases and all other goods in class 4.

ingredients for various purposes, mineral

Remarks: Assignment and change/name

recorded 2/7/90 and 4/6/90.

Merger and change/name recorded

Owner: Union Carbide Corporation

18-May-1988

Agent: ESTU Estudio Federico Villaseca

Country: Colombia	UCAR	Trademark Name	Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	Division Attorney(s)	
orporation	11114	Attorney(s) Case Number	Trademark List
	Renewing	Application Status Number/Filing	List
12-Feb-1988	66,540	Registration Number/Date	
	12-Feb-1993	Renewal First Use Date Date	]
			Page: 8

Agent: CAVE Cavelier Abogados

Classes: 1

Remarks: Shared with UCC.

recorded 6/1/90. Assignment and change name

2/13/98. Merger and change name recorded

License from UCTC to UCCI recorded3/24/98, resolution no.

Goods: Chemical substances used in the industries, in class 1 of becree 755 of 1.972. especially graphite and carbond or lampblack agricultural and horticultural works and for industrial purposes, articles covered under photograph and scientific investigations, in

Country: Denmark	OCAR		Trademark Name		Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	Attorney(s)	Division		
orporation	1117	Attorney(s) Case Number		Trademark List	
Kegistered	Dagist	Status Number/Filing	Application	ist	
1878/1969 11-Jul-1999		~	Registration		
11-Jul-1999	1 (	Date	Ranawal		
<b>-</b>		Date L		Page: 9	

Remarks: Consent: Schering A.G. in

11-Jul-1989

Denmark.

Merger and change name recorded

recorded 5/7/90

Assignment and change name

Shared with Ralston.

Consent: Westvaco Corporation.

Agent: BUDD Budde Schou & Co.

Goods: Electric lamps and electric lamp bulbs electric of such towers and columns, and pipes tubes stripping towers and columns for gas an dparts namely scrubbing, adsorption, fractionating and chemical installations (not being machines), and plating metal, heat exchangers (not being gas operated apparatus for heating, hardening parts of machines) and parts thereof, industrial flashlights, electric torches and parts thereof,

electric lamps.

installations, nuclear reactors, and carbons for

graphite for the construction and lining of

installations, shaped sections of carbon or

furnaces, cupolas, industrial heating,

and valves, all made of carbon and graphite and

being parts of the mentioned industrial chemical

i nursday, November 05, 1998		Trademark List	ist		;		Page: 10
Trademark Name	Division Attorney(s)	Case Number	Status	Application	Registration	Renewal	First Use
UCAR	MR	1118	Danista	1 1	17010	2000	11
7	MAI	1110	Registered	<u>p.</u>	46210	24-May-2000	7
Country: Egypt	Owner: Union Carbide Corporation	rporation			24-May-1990		
	Agent: BAKI Bakir International Office	rnational Office					
	Classes: 9		Remarks:	Remarks: Assignment and change name published 3/1/92, issue 619.	nge name ue 619.		
				11/27/97.			
	Goods: Electric batteries and electric dry cells,	ınd electric dry cells,					
	electrodes, anodes	electrodes, anodes, connecting pins for					
	electrodes and and	electrodes and anodes being parts of these	se				
	electrodes and and in motion picture p	electrodes and anodes, carbon electrodes for use in motion picture projection apparatus.	s for use				
UCAR	MR	1119	Registered		16595/40	29-Jan-1999	!
Country: El Salvador	Owner: Union Carbide Corporation	poration			29-Jan-1994		

Classes: 12 22

Remarks: Assignment and change name recorded 7/10/90.

Agent: RICA Ricardo Romero-Guzman

Goods: Graphite and carbon for general industrial uses:

batteries.

electrodes and anodes and connecting pins for electrodes and anodes. Electric dry cells and

Thursday, November 05, 1998		Trademark List	St				Page: 11
Trademark Name	Division Attorney(s)	Case Number	Status	Application	Registration	Renewal	First Use
UCAR	MR		Pending	36590		Pare	5 3 7 6
Country: European Community	Owner: Union Carbide Corporation		a	01-Apr-1996			
Designated Countries	Agent: GEVE Gevers & Partners	Partners		•			
AT Pending	Classes: 1 2 9 19		Remarks				
BX Pending	Goods: Chemical products for use in industry						
DE Pending	agriculture and per	agriculture and personal care products,					
DK Pending	including synthetic	including synthetic organic chemicals and					
ES Pending	adhesives, organic	adhesives, organic oxides, synthetic organic	i.				
FI Pending	chemical solvents,	chemical solvents, chemical fuel additives,	•				
FR Pending	compounds compe	compounds compositions and missures	ids,				
GB Pending	containing syntheti	containing synthetic resins or plastics, carbon	bon				
GR Pending	and graphite, and	and graphite, and compounds, compositions	ns				
IE Pending	industrial gases, in	industrial gases, including acethylene, oxygen	e, en				
IT Pending	hydrogen, nitrogen	hydrogen, nitrogen, argon, helium, neon,	9				
MC Pending	kгypton and xenon	krypton and xenon and calcium carbide in Int.	. Int.				
PT Pending	paints, varnishes at	paints, varnishes and lacquers, metal and	ıngss,				
SE Pending	ceramic coating ma Electric dry cells ar	ceramic coating materials in Int. class 2.  Electric dry cells and batteries anodes					
	electrodes and cath	electrodes and cathodes, connecting pins for	or				
	anodes and electroc	anodes and electrodes, and carbon and graphite	phite				
	for electrical purpor	for electrical purposes in Int. class 9. Products	lucts				
	in Int. class 19.	made partly or wholly of carbon and/or graphite in Int. class 19.	phite				
	*** ***C. ****** * * .						

	Country: Finland	Trademark Name UCAR		Thursday, November 05, 1998
Agent: BERG Berggren OY AR	MR 1121	Attorney(s) Case Number	Trademark List	
	Registered	Status	List	
	ed	Application Number/Filing		
05-May-1997	50148	Registration Number/Date		
	05-May-200	Renewal Date		
	17	Renewal First Use  Bate Date	Page: 12	
ADE	M	ARK		

Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal and carbons for electrical purposes and all other goods in class 9.

Classes: 9

Remarks: Merger and change name recorded

6/19/95.

Shared with Ralston.

Shared with Ralston. Goods: Electric lamps and electric lamp bulbs, electric torches and parts thereof, gas operated

apparatus for heating, hardening and plating

adsorption, fractionating and stripping towers

metal, heat exchangers (not being parts of machines) and parts thereof, scrubbing,

and columns, all being parts of industrial

chemical installations (not being machines) and

chemical installations, and carbons for electric

installations, nuclear reactors, and industrial

graphite and being parts of industrial chemical

parts of such towers and columns, and pips tubes and valves, all made of carbon and

lighting purposes.

Remarks: Assignment and change name

recorded 3/7/90.

Agent: RINU Rinuy, Santarelli

Thursday, November 05, 1998			-				
		I rademark List	ist				Page: 14
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal e Date	First Use Date
OCAR	MR	1124	Registered	Уď	863961	17-Jul-2007	
Country. Germany	Owner: Union Carbide Corporation	poration			17-Jul-1997		

Agent: LOUI Louis, Pohlau, Lohrentz & Sege

Remarks: Assignment and change name recorded 2/20/92.

Merger Assignment and change name recorded 2/20/92.

Shared with Ralston.

Goods: Electrical flashlight apparatus, electrical bulb graphite for the construction and lining of graphite and being parts of industrial chemical fo rindustrial installations (not being machines), chemical apparatus for scrubbing adsorption, installations, nuclear reactors, and industrial installations; shaped sections of carbon and pipes, tubs and valves made of carbon and fractionating and stripping towers and columns cylinders; electric pocket lamps and parts furnaces, cupolas, industrial heating (not being parts of machines) and parts thereof, thereof, gas operated apparatus for heating hardening and plating metal, heat exchangers

lighting purposes.

chemical installations, carbons for electric

	Country: Greece	UCAR						Country: Germany	UCAR	Trademark Name	Thursday, November 05, 1998
Agent: VAYA Vayanos Kostopoulos	Owner: Union Carbide Corporation	MR	Goods: Electrodes, anodes and connecting pins for electrodes and anodes.			Classes: 9	Agent: LOUI Louis, Pohlau, Lohrentz & Sege	Owner: Union Carbide Corporation	MR	Division Attorney(s)	
Kostopoulos	rporation	1127	s and connecting pins odes.				hlau, Lohrentz & Seg	rporation	1126	Case Number	Trademark List
		Registered	for	Merger : 1/19/98.	recorded	Remarks: Assignm	V	25-1	Registered U74	Application Status Number/Fil	ist
				ınd change	recorded 2/20/92.	Assignment and change name		25-Feb-1989	U7439/9WZ	Application Number/Filing	
	30-Sep-1996	36265		Merger and change name recorded 1/19/98.		nge name		25-Feb-1989	1147030	Registration Number/Date	
		30-Sep-2006							25-Feb-1999	Renewal Date	
										First Use Date	Page: 15

Shared with Ralston. cells, electric batteries, electrodes,

Classes: 9

Remarks: Assignment and change name

recorded 11/17/89.

Merger and change name recorded 12/20/96.

Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes, and all other goods included in class 9.

Country: Greece Owner: Union Carbide Corporation	OLAK MR	nark Name Division		Thursday, November 15 1000
Carbide Co		orney(s)		
rporation	1128	Attorney(s) Case Number	Trademark List	
	Registered	Status	List	
	ed	Application Number/Filing		
18-Jul-1997	37849	Registration Number/Date		
	18-Jul-2007	Renewal Date		
	and the second s	First Use Date	Page: 16	

Agent: VAYA Vayanos Kostopoulos

Remarks: Assignment and change name

recorded 11/20/89.

Merger and change name recorded

12/19/96.

Shared with Ralston.

Goods: Electric flashlights, electric lamps and electric lamp bulbs, electric torches and parts thereof; gas operated apparatus for heating, hardening and plating metal, heat exchangers (not being parts of machines) and parts thereof, scrubbing adsorption fractionating and stripping towers and columns, and pipes tubes and valves, all made of carbon and graphite and being parts of industrial chemical installations, shaped sections of carbon or graphite for the construction and lining of furnaces, cupolas, industrial heating installations, nuclear reactors, and industrial chemical installations, and

carbons for electric lighting purpsoses.

Division Attorncy(s) Case Number Status Number/Filing Number Owner: Union Carbide Corporation Agent: FERN Fernandez Y Fernandez S.A. Classes: 9  Crase Number Status Application Registered Oumber/Filing 09-Jan-1 09-Jan-1 09-Jan-1

Classes; 1

Remarks: Assignment recorded.

Change/name not filed per agent advice.

Goods: Graphite and carbon for general industrial uses, and all other goods included in Class 1.

Country: Hungary			Country: Honduras	Trademark Name UCAR	Thursday, November 05, 1998
Owner: Union Carbide Corporation  Agent: SBGK S.B.G Z. & K. Patent and Law O	Goods: Electric batteries, electrodes, anodes, cathodes and connecting pins for electrodes and anodes.	Classes: 9  Remarks: This is old Reg. No. 14,794 broken  down into separate classes.	Carbide Corp Bufete Mejii	Application Number/Filing	Trademark List Page: 18

Remarks: Assignment recorded 11/27/89;

change/name recorded 7/10/90.

Merger and change/name recorded 9/8/97.

Shared with Ralston.

Goods: Electric dry cells, electric batteries, electrodes,

anodes and connected devices.

Thursday Manall or 120							
5 may 5 more all Del O3, 1998		Trademark List	List				Page: 19
Trademark Name	Division Attorney(s)			Application	Registration	Renewal	First Use
UCAR	( ) ( )	Case (valid)	Suiric	Number/Filing	Number/Date	Date	Date
County	MR	1133	Unfiled	218540	218540		
Country: Indonesta	Owner: Union Carbide Corporation	rporation					
	Agent: AMRO Amroos Law Consultants	aw Consultants					
	Classes: 1 9		Remarks:	Remarks: Merger and change/name recorded	name recorded		
	Goods: Electric dry cells, electric batteris, priector	electric batteris, prje		:			
	carbons, electrode	carbons, electrodes, anodes, connecting pins for	pins for				
	cutting, welding, soluting heating are	cutting, welding, soldering, brazing, scarfing, plating heating and hardening materials	us for arfing,				
	carbons for electri	carbons for electrical purposes, and all other goods in class 9.	other				•
UCAR	MR	1135	Registered		27507		
Cominy, 181801	Owner: Union Carbide Corporation	poration			)-1991	יין דיין דיין דיין דיין דיין דיין דיין	

Remarks: Assignment and change name

recorded.

Merger and change name recorded 2/1/96.

Shared with Ralston.

Agent: MULF A.E. Mulford

Goods: Electric dry cells and batteries, electrodes for

electrodes and anodes.

electric welding and for use in spectroscopic apparatus, anodes and connecting pins for

7 J - ADIMEL	Country: Israel	Trademark Name	* 1141 504), 110 VEHIDEF (13, 1998	Thursday November 02 1000
Owner: Union Carbide Corporation	MR	Division Attorney(s)		
rporation	1136	Attorncy(s) Case Number	Trademark List	
	Registered	Status	List	
		Application Number/Filing		
21-Sep-1991	32598	Registration Number/Date		
	21-Sep-2005	Renewal Date		
		First Use Date	Page: 20	

Agent: MULF A.E. Mulford

Classes: 11

Remarks: Assignment recorded 9/11/89.

21-Sep-1991

Merger and change name recorded

Shared with Ralston.

Goods: Flashlights not for photographic purposes, class 11. Nuclear reactors not included in other shaped sections of carbon or graphite for the classes and industrial chemical installations construction and lining of furnaces cupolas, included in class 11, carbons for electric industrial heating installations and included in chemical installations included in class 11, and pipes, tubes and valves, all made of carbon such towers and columns included in class 11, adsorption, fractionating and stripping towers and graphite and being parts of industrial installations (not being machines) and parts of and columns, all being industrial chemical electric lamps and electric lamp bulbs, electric parts thereof included in class 11, scrubbing, exchangers (not being parts of machines) and heating, hardening and plating metal; heat gas operated apparatus included in class 11 for torches and parts thereof included in class 11,

apparatus.

motion picture projectors and in therapeutic

lighting purposes, ARC carbons for use in

		/ 07/11/1-02	/ O / T = 110 f = 0.3		•		
		38 [] 1007	28_[n]_1967		nonzion	carotac Corporation	
					The state of the s		•
	28-Jul-1997	531802	220866	Kenewing			Country: Italy
					1137	MR	
Date	Date	Number/Date	Number/Filing	Suigic	CASC MUMBER	(1)	UCAR
First Use	Renewal		Application		Attorney(s) Case Number	Attorney(c)	Tanen
<b>!</b>			Ameliantia			Division	Tradam
Page:				List	I rademark List		
						Thursday, November 05, 1998	Thursd

Agent: BARZ Ing. Barzano & Zaardo Roma S.P.

Classes: 11

Remarks: Shared with Ralston.
Goods: Electric flashlights, electric lamps and electric

lamp bulbs, electric torches and parts thereof, gas operated apparatus for heating, hardening and plating metal, heat exchanger (not being parts of machines) and parts thereof, scrubbing adsorption, fractionating and stripping towers and columns, all being industrial chemical installations (not being machines) and parts of such towers and columns, and pipes, tubes and valves, all made of carbon and graphite and being parts of industrial chemical installations, shaped sections of carbon or graphite for the construction and lining of furnaces, cupolas, industrial heating installations, nuclear reactors, and industrial heating installations, nuclear reactors and industrial chemical installations

and carbons for electric lighting purposes.

71.					
mursuay, November 05, 1998	Trademark List	ırk List			Page: 22
Trademark Name	Division Attorncy(s) Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR 1138	Registered	14,925	7-2002	Mary charge and a
Country: Kenya	Owner: Union Carbide Corporation		16-Mav-1988	;	
	Agent: KAPL Kaplan & Stratton				
	Classes: 9	Remarks: Assignment recorded 11/15/89.	ed 11/15/89.		
	!	Change name recorded 10/23/89.	ded 10/23/89.		
	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and	s, electrodes, odes and			
	anoues, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal and carbons for electrical	ing, welding, 1g, heating for electrical			
IICAR	purposes, and all other goods in class 9.	ass 9.			
OCAK	MR 1139	Registered	27/66	15-Feb-2001	
Country, Madawi	Owner: Union Carbide Corporation		1-1987		
	Agent: JOHN John & Kernick				
	Classes: 9	Remarks: Assignment change name record 12/8/89.	name record		
		Merger and change name recorded 4/21/95.	name recorded		
	Conde Election				

Goods: Electric dry cells, electric batteries, electrodes,

anodes, connecting pins for electrodes and anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical

purposes.

Thursday, November 05, 1000	
	Trademark List Page: 23
Trademark Name	Application Registration Renewal
UCAR	Pending 92/08323
Country: Malaysia	
	Agent: SHEA Shearn Delamore
	Classes: 9  Remarks: Associated with 92/08322, 92/08321, 92/08320, 88/02536, R/18255.
	Goods: Graphite electrodes and graphite dies, namely, specialty graphite for casting applications such as molds and dies.
UCAR	MR 1141 Pending 92/08320
Cominy, Maldysid	Owner: Union Carbide Corporation 26-Nov-1992
	Agent: SHEA Shearn Delamore
	Classes: 1  Remarks: Associated with 88/02536 and R/18255.
	Goods: Manufactured or processed carbon and graphite materials, namely, anodes, electrodes, specialties, flexible graphite and powders.
	processed refractory materials produced from carbon, graphite or ceramic materials, namely
	protection tubes, water spray-cooled systems and furnace operating systems for electric arc melting furnaces.

rinisuay, november 05, 1998	Trademark List		4.00	Page: 24
Trademark Name	Attorney(s) Case Number Status Number/Filing	ion Registration Filing Number/Date	Renewal	First Use
Country: Mexico	Registered		06-Sep-2002	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Owner: Union Carbide Corporation	06-Sep-1992	-	
	Agent: BECE Becerrill, Coca & Beccrril, S.			
	Remarks:	Assignment and change/name		
		Ç		
	Merger re	Merger recorded 2/20/95;		
	Goods: Graphite and carbon for general industrial uses.	changerhanie recorded 12/7/95.		
Country: Mexico	MR 1143 Registered	146,448	06-Sep-2002	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Owner: Union Carbide Corporation	06-Sep-1967	,	٠
	Agent: BECE Becerrill, Coca & Becerril, S.			
	Remarks: ]	Merger recorded 2/20/95.		
		Change/name recorded 12/26/96.		
	Goods: Electrical apparatus, machines and supplies, especially carbon or graphite electrodes and			
	anodes and connecting pins for electrodes and anodes; electric dry cells and batteries			
UCAR	MR 1144 Registered	00558	0.4 0.000	
Country: New Zealand	Owner: Union Carbide Corporation  Agent: PARK A.J. Park & Son	-1988	21-Oct-2002	
	Classes: 1 Remarks: Assignment recorded.	recorded.		
	Merger and changer letter 12/8/95	Merger and change name recorded per letter 12/8/95.		

Goods: Graphite and carbon for general industrial uses.

Associated with Reg. No. 85501.

Commerty. Privatagua	Country Nicaraous	IIO v D			Commy. Then Evalding	Country: New Zealand	Trademark Name	Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	Goods: Electrodes and anodes and connecting pins for electrodes and anodes.	Classes: 9	Agent: PARK A.J. Park & Son	Owner: Union Carbide Corporation	MR	Division Attorney(s)	
poration	1147	odes and connectin		& Son	rporation	1145	Case Number	Trademark List
	Renewing		arks:			Registered	Status	List
			Assignment recorded.  Merger and change name recorded				Application Number/Filing	
20-Oct-1988	18420		d. name recorded.		24-Oct-1988	85501	Registration Number/Date	
	20-Oct-1998					24-Oct-2002	Renewal Date	
							First Use Date	Page: 25

Remarks: Assignment recorded 9/3/91.

Change name recorded 10/23/91.

Agent: GUY Guy J. Bendana Guerrero & Asso

Goods: Electrodes and anodes and connecting pins for

electrodes and anodes. Electric dry cells and

batteries.

		26-Jul-1991			orporation	Owner: Union Carbide Corporation	Country: Panama
	26-Jul-2001	30383	Ď	Registered	1149	MR	OCAK
First Use Date	Renewal Date	Registration Number/Date	Application Number/Filing	Status	Attorney(s) Case Number	Attorney(s)	Trademark Name
Page: 26				List	Trademark List		Ihursday, November 05, 1998

Agent: ARIAS Arias, Fabrega & Fabrega

Remarks: Based on Honduran Reg No. 14,794

due 1/1/88.
Divisional registration of No. 14,528.

Proof of renewal based on Honduran Reg. No. 14,794 recorded 2/19/90.

Assignment and change name recorded 5/16/90.

Goods: Carbons and graphite and products made partially or totally of carbons or graphite, industrial equipments. including structures for the construction of

Thursday, November 05, 1998		Trademark List	List				Page: 27
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR	1150	Registered	e l	14528	26-Jul-2001	
Country: Panama	Owner: Union Carbide Corporation	orporation			26-Jul-1991		

Agent: ARIAS Arias, Fabrega & Fabrega

Classes: 9

Remarks: Based on Honduran Reg. No.

14,794.

Divisional registration of no. 14,528.

Proof of renewal based on

2/9/90. Honduran Reg. No. 14749, recorded

recorded. Assignment and change/name

Merger and change/name recorded...

Goods: Electric batteries, therapeutic apparatus and class, for fine electrics, pin joints for electrodes carbons, electrodes, anodes and cathodes in the electric and electronics, oceanographic blocks and brushes for machines and electrical and anodes, brushes of carbon and graphite and apparatus, data processing equipment, arc oxygen, laser components and apparatus,

apparatus.

Thursday, November 05, 1998	Trademark List  Page: 28
Trademark Name	Application Registration Renewal First tatus Number/Filing Number/Date Date Date
Country: Paraguay	Renewing 126872 2
,	Chasses: 1  Classes: 1  Remarks: Assignment recorded 2/13/90.
	Change of name recorded 4/12/93.  Merger and change name recorded
	Goods: Graphite and carbon for general industrial uses, and all other goods in class 1.
UCAR	MD
Country: Paraguay	Owner: Union Carbide Corporation  Agent: ABEN AbenteSaguier  Renewing  126873  21-Oct-1997  21-Oct-1987
	Classes: 9  Remarks: Assignment recorded 2/12/00

Goods: Electrodes and anodes and connecting pins for

Remarks: Assignment recorded 2/13/90

Change of name recorded 4/12/93. Merger and change name recorded

electrodes and anodes, electric dry cells and batteries, and all other goods in class 9.

Country: Feru	OCAK	Trademark Name	Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	Division Attorney(s)	
orporation	1156	Attorney(s) Case Number	Trademark List
	Registered	Status N	List
		Application Number/Filing	
19-Jul-1992	12169	Registration Number/Date	
	19-Jul-2002	Renewal First Use Date Date	
		First Use Date	Page: 29

Agent: ESTU Estudio Barreda Moller

Classes: 1

Remarks: Opposition filed to application by

Uniquimica S.A. to register UKOCAR on 12/28/87. Trademark Office issued Resolution No. 63426

dated 7/3/90 sustaining the opposition against applicant:

confusingly similar to UCAR. Case closed.
Assignment and change name

recorded 6/20/90.
Opposition to UNICAR dismissed on appeal 3/95.

Merger and change name recorded 8/9/95.

Goods: Graphite and carbon for general industrial uses.

Thursday, November 05, 1998						
		Trademark List				Page: 30
Trademark Name	Division Attorney(s)	Case Number	Application Status Number/Elling	Registration	Renewal	
UCAR	MR		red	12170	19-Int-2002	Date
Country: refu	Owner: Union Carbide Corporation			19-Jul-1992	100 t	_
	Agent: ESTU Estudio Barreda Moller	rreda Moller		:		_
	Classes: 9					
		;	registration denied.	okocai upiteta;		
			Assignment and change/name recorded 6/20/90.	nge/name		
			Merger and change/name recorded 8/9/95.	name recorded		
	Goods: Electric dry cells, electric batteries, electrodes	lectric batteries, electrod				
	anodes, connecting	anodes, connecting pins for electrodes and				
	and hardening meta	anodes, electric apparatus for cutting welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical	ng, g			
UCAR	par poses.					
Country: Russian Federation	NIN WIN		Registered	57120	02-Feb-2006	
	Owner: Union Carbide Corporation	oration		02-Feb-1996		

Remarks: Assignment and change/name

Agent: SOJUZ Sojuzpatent

Goods: Electric dry cells; electric batteries; electrodes;

maintaining.

Ralston not interested in

merger/change of name per agents.

Not required to record recorded 9/10 and 9/11/90.

purposes.

and hardening metal; and carbons for electrical soldering, brazing, scarfing, plating, heating anodes; electric apparatus for cutting, welding, anodes; connecting pins for electrodes and

Thursday M						
maisuay, movember 05, 1998	Tradem	Trademark List				Page: 31
Trademark Name	Division Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR 1159	Registered S/41618	S/41618	41618	08-May-2002	A VA ELIMEN
Country: Singapore	Owner: Union Carbide Corporation		08-May-1967	08-May-1988		
	Agent: DREW Drew & Napier					
	Classes: 9	Remarks:				
	Goods: Electric cells, electric batteries, anodes, connecting pins for electrodes and anodes and electric apparatus for use on metals.	anodes, nd anodes and tals.				
UCAR	MR 1160	Registered		44159	17-Jun-2003	
county, singapore	Owner: Union Carbide Corporation			17-Jun-1989		

Remarks:

Agent: DREW Drew & Napicr

Goods: Carbon and graphite electrodes for electric furnaces; carbons for electrical purposes.

Country: South Africa	OCAK	Trademark Name	Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	Division Attorney(s)	
orporation	1161	Attorney(s) Case Number	Trademark List
	Registered	Application Status Number/Filing	List
06-Dec-1995	65/5071 06-Dec-200	Registration Renewal Number/Date Date	
	)5	Renewal First Use Date Date	Page: 32

Agent: ADAM Adams & Adams Classes: 9

Remarks: Associated with No. 65/3669

Assignment to UCC Holding recorded and RUS cancelled

Change/name recorded 2/15/91.

7/17/90.

Merger and change/name recorded

11/30/95

Goods: Electric dry cells, electric batteries, electrodes; anodes, connecting pins for electrodes and anodes; electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal; and carbons for electrical purposes, and all other goods included in this class

	Country: Spaill	Country Spain	Trademark Name	Thursday, November 05, 1998	
Agent: POLO Carlos Polo	Owner: Union Carbide Corporation	MR 1162	Attorney(s) Case Number		
		Registered	Application Status Number/Filing	Trademark List	
	30-May-1997	535591	Registration Number/Date		
		30-May-2007	Renewal First Use e Date Date	Page: 33	
۱D	ΕI	MΑ	RK	33	

Remarks: Consent: United Chemists Assoc.

Ltd. in Spain.

Goods: Electrodes and anodes and connecting pins for electrodes and anodes.

appliances and instruments. electrical, optical, weighing and control Additional goods added 10/20/84: Scientific,

Merger and ch/name recorded 2/2/95.

Assignment and ch/name recorded 12/28/90.

comit.j. opaill	Country: Spain	Trademark Name		Thursday, November 05, 1998
Owner: Union Carbide Corporation	MR	Division Attorncy(s)		
poration	1163	Attorney(s) Case Number	Trademark List	
	Registered	Application Status Number/Filing	List	
30-May-1970	540629	Registration Number/Date		
	30-May-2000	Renewal First Use		Carlot Ca
		First Use Date	Page: 34	

Agent: POLO Carlos Polo

Remarks: Consent: United Chemists Assoc.

Ltd. in Spain.

Consent to UCESA for I.R. UCARSEP.

Merger and change/name recorded 2/2/95.

Goods: Electric flashlights, electric lamps and electric lamp bulbs; electric torches and parts thereof; gas operated apparatus for heating hardening and plating metal; heat exchangers (not being parts of machines) and parts thereof; scrubbing, adsorption, fractionating and stripping towers and columns, all being industrial chemical installations (not being machines) and parts of such towers and columns; and pipes, tubes and valves, all made of carbon and graphite and being parts of industrial chemical installations; shaped sections of carbon or graphite for the construction and lining of furnaces, cupolas, industrial heating installations; nuclear reactors, and industrial chemical installations; and

carbon for electric lighting purposes.

	UCAR MR 1165 Registered 12071	Trademark Name Division Attorney(s) Case Number Status Number/Filing Numb	Thursday, November 05, 1998  Trademark List
18-Ang-1997	120714	Registration Number/Dat	
	18-Aug-2007	Renewal First Use e Date Date	Page: 35

Agent: ALBI Albihns Patentbyra Stockholm A

Remarks: (1) Consent: Puck Produits

(2) Consent: Schering A.G. in Chimiques (Ukapor) Sweden.

Sweden.

Sweden.

(3) Consent: Speri S.P.A. in

(4) Consent: Ucan Greenman Ltd

In Sweden.

(5) Consent: Westvaco Corporation.

recorded 4/26/90. (6) Assignment and ch/name

(7) Merger & ch/name recorded

(8) Shared with Ralston.

Goods: (Class 7): Electric apparatus for cutting and scarfing. (class 9): electric dry cells, electric apparatus. (Class 11): Electric apparatus for calculating machines; fire extinguishing apparatus; talking machines; cash registers; and instruments; coin and counterfreed weighting, measuring and life-saving apparatus batteries, electrodes, anodes, electric apparatus heating and hardening metal. metal; carbons for electrical purposes; for welding, soldering, brazing and plating

Trademai	rk List				Page: 36
Division Attorney(s) Case Number	Status			wal	First Use
MR 1166	red				Park
Owner: Union Carbide Corporation		2. •		50-3ant-2000	
Agent: ALBI Albihns Patenthyra Stockh	olm A				
Classes: 1	Remarks: Assig 4/26/	nment and ch/nam	le recorded		
	Merg 1/5/9¢	er and ch/name red 5.	orded		
Goods: Graphite and carbon for general in				•	
MR 1167	Registered	4.		1-Oct-2000	
Owner: Union Carbide Corporation		31	l-Oct-1990		
	Division  Attorney(s)  Attorney(s)  Case Number  MR  1166  Owner: Union Carbide Corporation  Agent: ALBI Albihns Patenthyra Stockh  Classes: 1  Goods: Graphite and carbon for general in  MR  1167  Owner: Union Carbide Corporation	Number Statu Regis  Stockholm A Remar  Remar  Regist  Regist	Application Number Status Number/Filing  Registered  Remarks: Assignment and ch/na 4/26/90.  Merger and ch/name r 1/5/96.  Registered  Registered	demark List  Application Registration Number Status Number/Filing Number/Date  Registered 122354  26-Jan-1998  Stockholm A  Remarks: Assignment and ch/name recorded 4/26/90.  Merger and ch/name recorded 1/5/96.  neral industrial uses.  Registered 43922  31-Oct-1990	demark List  Application Registration Renewal Number Status Number/Filing Number/Date Date  Registered 122354 26-Jan-2008  26-Jan-1998  Stockholm A  Remarks: Assignment and ch/name recorded 4/26/90.  Merger and ch/name recorded 1/5/96.  neral industrial uses.  Registered 43922 31-Oct-2000  31-Oct-2000

Remarks: Assignment & ch/name recorded

7/27 and 9/7/90.
Merger & ch/name not required to

be recorded.

Agent: LEE Lee and Li

Goods: Electrodes, anodes, connecting pins for

electrodes and anodes and arc carbons, and all other goods in the other articles group of class

inaisuay, movember 05, 1998		Trademark List	List				Page: 37
Trademark Name	Division Attorney(s)	Case Number	Status	Application	Registration	Renewal	First Use
UCAR	MR	1168	Registered		1005	06 Int 2001	Parc
Country: Tonga	Owner: Union Cartists Ca		2000000	•	000	1007-101-00	
•	Classes: 9	orporation	Remarks:	06-Jul-1987 Assignment and change/name not	06-Jul-1987 inge/name not		
				recorded.	i		
				Not doing business in Tonga; allow	n Tonga; allow		
				to lapse per client.			
	Goods: Electric dry cells, electric batteries, electrodes, anodes, connecting pins for electrodes and	anodes, connecting pins for electrodes and	ectrodes, s and				
	anodes, electric ap cutting, welding, plating, heating a	anodes, electric apparatus included in class 9 for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and	class 9 for scarfing,				
	carbons for electrical purposes	ical purposes.					
Country: United Kingdom	MR	1169	Renewing		896862	06-Jul-1997	
Survey Skill Buotil	Owner: Union Carbide Corporation Classes: 9	rporation	Remarks: (	06-Jul-196	06-Jul-1966		

Goods: Electric dry cells, electric batteries, electrodes,

recorded 1/17/92. (4) Merger recorded 1/26/95. (5) Change of

(2) consent: Ucan Greenman Ltd. In U.K. (3) Assignment ch/name

name recorded. (6) Shared with

anodes, connecting pins for electrodes and

anodes, electric apparatus included in class 9 for cutting, welding, soldering, brazing, scarfing,

plating, heating and hardening metal, and

carbons for electric purposes.

Classes: 11	Country: United Kingdom	Trademark Name Division Attorncy(s)		Thursday, November 05, 1998
poration	1170	Case Number	Trademark List	
Remarks:	Renewing	Status	List	
Remarks: (1) Associated with No. 896,862		Application Number/Filing		
12-May-1967	909435	Registration Number/Date	:	
	12-May-1998	Renewal Date		
a		First Usc	Page: 38	

Goods: Graphite and carbon heating and lighting elements.

(4) Merger recorded 1/26/95.(5) Change of name recorded.

		04-Feh-1969			orporation	Owner: Union Carbide Corporation	Owne	Country. Utilied States of America	Count
	04-Feb-2009	864455 (	P-	Registered	1172	MR		my United States of A	UCAR
				lbs; electric uposes); ratus for the heat ng parts of ractionating or gas; ses, tubes or graphite oresaid sof carbon furnaces), or nuclear	Electric lamps and electric lamp bulbs; electric flashlights (not for photographic purposes); Electric torches; gas operated apparatus for the hardening and plating of metals by heat treatment; heat exchangers (not being parts of machines); scrubbing, adsorption, fractionating and stripping towers and columns for gas; industrial chemical installations; pipes, tubes and valves, all made of carbon and/or graphite and being parts or fittings for the aforesaid chemical installations; shaped linings of carbon or of graphite for furnaces, cupolas (furnaces), industrial heating installations and for nuclear reactors, carbons for electric lamps.	Goods: Electric lamps and electric lamp bulbs; electric flashlights (not for photographic purposes); Electric torches; gas operated apparatus for the hardening and plating of metals by heat treatment; heat exchangers (not being parts of machines); scrubbing, adsorption, fractionating and stripping towers and columns for gas; industrial chemical installations; pipes, tubes and valves, all made of carbon and/or graphite and being parts or fittings for the aforesaid chemical installations; shaped linings of carbon or of graphite for furnaces, cupolas (furnaces), industrial heating installations and for nuclear reactors, carbons for electric lamps.	Goo		
		ch/name 1/26/95. recorded. ston.	In U.K.  (2) Assignment and ch/name recorded 1/17/92.  (3) Merger recorded 1/26/95. (4) Change of name recorded. (5) Shared with Ralston.				)		
		reenman Ltd.	Remarks: (1) Consent: Ucan Greenman Ltd.	Remarks:		Classes: 11	Class		
					CP Partnership	Agent: GSCP The GSCP Partnership	Age		
		29-Dec-1975			Corporation	Owner: Union Carbide Corporation	Own	Comitty. Cilited Kingdom	Comi
	29-Dec-2006	1056849	ed	Registered	1171	MR			
First Use Date	Renewal Date	Registration Number/Date	Application Number/Filing	Status	Case Number	Attorney(s)	MIG	Trademark Name	Trade
Page: 39				·k List	Trademark List		7	riiursuay, November 05, 1998	11111

Goods: Graphite pipe slide support sets.

I hursday, November 05, 1998	Trademark List	ist			Page: 40
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAK	MR 1173	Registered	884511	20-Jan-2000	
Country. Utilited States of America	Owner: Union Carbide Corporation		20-Jan-1970		
	Agent: MRD Margaret Ranft Day				
	Classes: 9	Remarks: Merger & ch/name recorded 2/11/95	recorded		
	Goods: Electrolytic anodes.				
Country: United States of America	MR 1174	Registered	893537	30-Jun-2000	
Commit. Cilica States of America	Owner: Union Carbide Corporation		30-Jun-1970		
	Agent: ACFT Assistant Commissioner for Tra	_			
	Classes: 19	Remarks: Merger & ch/name recorded	recorded		
	Goods: Carbon brick.	2/21/95.			
UCAR	MR 1175	Registered	909659	09-Mar-2001	
Country: United States of America	Owner: Union Carbide Corporation		.1971		
	Agent: MRD Margaret Ranft Day				
	Classes: 24	Remarks: Merger & clt/name recorded	recorded		

Goods: Carbon and graphite fabrics

Remarks: Merger & ch/name recorded 2/21/95.

Thursday, November 05, 1998		Trademark List				Page: 41
Trademark Name	Division Attorney(s) Ca	Case Number Status	Application  Number/Eiling	Registration	Renewal	First Use
UCAR	MR 1178		Registered	967344	04-Sep-2003	
Country. United States of America	Owner: Union Carbide Corporation Classes: 19	ation Remarks:		04-Sep-1973 recorded	,	
	Goods: Pastes and cements for use with or between	use with or between				
	carbon and graphite and between carbon or	nd between carbon or				
	graphite and other substances for use in gas lines, furnaces, thermic applications, electro apparatus, and construction work in the	graphite and other substances for use in gas lines, furnaces, thermic applications, electrolytic apparatus, and construction work in the	· ·			
	chemical and metallurgical industries, and pastes and cements for use in making molds, temporary walls, and protection to the control of the	gical industries, and use in making molds,				
UCAR	MR 1180	80 Registered		973945	27-Nov-2003	
Country: United States of America	Owner: Union Carbide Corporation Classes: 9	7-1	Merger & ch/name re			
			2/21/95.			
	Goods: Metal ceramic thermocouple protecting tubes.	ouple protecting tubes.				
Country: United States of Acres	MR 1182	Registered	ered	1008278	08-Apr-2005	
Country. Outled States of Affighed	Owner: Union Carbide Corporation Classes: 1	tion Remarks:	08-Apr-1975 ks: Merger & ch/name recorded	08-Apr-1975 corded		`

Goods: Unmachined carbon and graphite.

	Country: United States of America		UCAR Country: United States of America		Country: United States of America	OCAR	Trademark Name	Thursday, November 05, 1998
Goods: Graphite powder for various uses in the industrial arts.	MR 1186  Owner: Union Carbide Corporation  Classes: 1	Classes: 9  Goods: Carbon electrodes,	MR 1185	Goods: Graphite pipe.	Owner: Union Carbide Corporation Classes: 19	MR 1184	Division Attorney(s) Case Number	Trademark List
2/21/95.	Registered 1173765 20-Oct-198 Remarks: 8 & 15 Affidavit accepted 5/6/88. Merger & ch/name recorded	Remarks:	Registered	2/21/95.	Ē	Registered 73/018646	Application Status Number/Filing	List
	1173765 20-Oct-1981 epted 5/6/88. ecorded	22-Jul-1975	1016291		24-Jun-1975 recorded	101/1/12	Registration Number/Date	
	20 <b>-Oct-2</b> 001		22-Jul-2005		24-Jun-2003	34 I.m 300s	Renewal e Date	
							First Use Date	Page: 42

Thursday, November 05, 1998		Trademark List	<b>4</b>				Page: 43
Trademark Name	Division Attorney(s)	Case Number	Status	Application	Registration	Renewal	First Use
Country: United States of America	MR		Registered	0	1	19-Jul-2008	Dark
ייייים מוונים מו מווניםורים	Owner: Union Carbide Corporation Classes: 11		Remarks: (1)	19-Jul-198 (1) Opposition filed against Icar, 11/7/88.	19-Jul-1988 against Icar,		
			(2) 2/2	(2) 8 & 15 affidavit accepted 2/28/94.	accepted		
				(3) Merger & ch/name recorded 2/21/95.	ne recorded		
	Goods: Electric arc furnace components, namely, side walls, exhaust ports, exhaust hoods, ladie	Electric arc furnace components, namely, walls, exhaust ports, exhaust hoods, ladle	side				
	furnace covers and (U.S. Cl. 34).	furnace covers and parts thereof, in class 11. (U.S. Cl. 34).	F				
UCAR Country: United States of America	MR		Registered	74/095358	1692647 0	09-Jun-2002	
	Owner: Union Carbide Corporation Classes: 9		≀emarks: Me	Remarks: Merge & ch/name recorded	09-Jun-1992 orded		

Goods: Furnace operating systems for monitoring,

2/21/95. 8 & 15 filed 6/5/98.

controlling and reporting on the various

contents in International Class 9.

functions, processes and parameters of electric arc furnaces; chemistry management systems for monitoring the chemical makeup of furnace

Tradamast Name	Division Trademark List		
Trademark Name	Attorney(s) Case Number	Application Status Number/Filing	n Registration Iling Number/Date
UCAR Country: United States of America	MR 1189 Owner: Union Carbide Corporation	red	
Coming. Omica States of Affletica	Owner: Union Carbide Corporation Classes: 9	27-Jan-1992 Remarks: Merger & ch/nan 2/21/95.	27-Jan-1992 09-Mar-1993 Merger & ch/name recorded 2/21/95.
	Goods: Graphite electrodes and connecting pins for use in the steel and other metals manufacturing		
	industries and the ceramic refractory materials industry, in Class 9 (U.S. Cl. 21).	aterials	
Country: Uruguay	MR 1190 Owner: Union Carbide Corporation	Registered	246632
	Agent: BARB Barbosa Caravia & Co.		05-Feb-1971
	Classes: 9	Remarks: Assignment and or recorded 5/10/90 Change of name a	05-Feb-1971
		merger recor	chan,
UCAR	Goods: Graphite and carbon for general industrial uses.  MR 1191 Rene		O5-Feb-1971 Assignment and change/name recorded 5/10/90. Change of name and address re: merger recorded 1/31/96. Merger and change/name recorded 8/12/96.
Country: Venezuela	Owner: Union Carbide Corporation	wing	05-Feb-1971 and change/name 0/90. ame and address re: ded 1/31/96. change/name recorded
	Agent: BENT Bentata Hoet & Associados	wing	05-Feb-1971 and change/name 0/90. ame and address re: ded 1/31/96. change/name recorded 65826-F 07-Jul-1971
	Classes: 21	wing	05-Feb-1971 and change/name 0/90. ame and address re: ded 1/31/96. change/name recorded 65826-F 07-Jul-1971
		wing	Assignment and change/name recorded 5/10/90. Change of name and address re: merger recorded 1/31/96. Merger and change/name recorded 8/12/96. 65826-F 07-Jul-1971 Assignment, ch/name recorded 3/17/92.

Division  Attorney(s)  Case Number  Status  Number/Filing  MR  1192  Pending  13888  Owner: Union Carbide Corporation  Agent: BENT  Bentata Hoet & Associados  Remarks: Appln. Replaces reg no. 65,825-F lapsed due to failure by Balogh to renew.  Goods: Graphite and carbon for general industrial use.  MR  1193  Renewing  25-Jun-1978  Agent: MIKI  Mikijelj & Jankovic  Classes: 9  Remarks: Assignment & ch/name recorded.  All renewals under the number
Pag First Use Date

and hardening metal, and carbons for electrical

purposes.

anodes, electric apparatus for cutting, welding, soldering, brazing, scarfing, plating, heating

anodes, connecting pins for electrodes and

	Page 16
Case Number Status Number/Cities Number Case Number Status Number Case Number	Use
Registered 724/65 06-Dec-2000	
06-Dec-1065	
arks:	
)des;	
anodes; electric welding apparatus (not machines); carbons for electrical purposes	
(other than for lighting); electric soldering irons; foundry moulds and foundry cores, all made of carbon or of graphite.	
Registered 994/65	
06-Dec-1996 Remarks: Assignment & cl/name recorded	
Goods: Electric dry cells, electric batteries; electrodes, anodes, connecting pins for electrodes and	
machines); carbons for electric purposes (other	
foundry moulds and foundry cores, all made of carbon or of graphite.	
	Attorney(s) Case Number Status Number/Filing Number/Date Date Date  MR 1194 Registered 724/65 06-Dec-2000  mion Carbide Corporation 06-Dec-1965  DAM Adams & Adams  Remarks: Merger & ch/name recorded 8/8/95.  lectric dry cells, electric batteries, electrodes; nodes connecting pins for electrical purposes of ther than for lighting); electric soldering gons; foundry moulds and foundry cores, all ade of carbon or of graphite.  MR 1195 Registered 994/65 06-Dec-2006  Remarks: Assignment & ch/name recorded 8/8/95  non-carbide Corporation Remarks: Assignment & ch/name recorded 6/10/10/10/10/10/10/10/10/10/10/10/10/10/

Division  Attorney(s)  Owner: Union Carbide Corporation  Agent: SOJUZ Sojuzpatent  Application
lemark List  Application Registration Renewal First lumber Status Number/Filing Number/Date Date  Pending 97/703816  18-Mar-1997
Application Registration Renewal First Number/Filing Number/Date Date Date g 97/703816
Renewal First Date Date
First Date
Page: 47 First Use Date

Goods: Manufactured or processed carbon and graphite materials, namely, anodes, electrodes, cathodes, specialties, flexible graphite and powders; processed refractory materials, namely bricks, pastes, cements and thermocouple protection tubes; water spray-cooled systems and furnace operating systems for electric arc melting furnaces; graphite dies, namely specialty graphite for casting applications such as molds and dies.

Classes: 1 9

Remarks:

## **COMPUTER CODE DESIGNATIONS**

CAER Carbon Electrode Related

**CASP** Carbon Specialty

CMP UCAR Composites

CSV Carbon Savoie

FLXGR Flexible Graphite Related

**GRER** Graphite Electrode Related

**GRSP** Graphite Specialty

NCB Not Current Business

SCS Spray Cool System

F. J. McCARTHY



BUSINESS CONFIDENTIAL

TRADEMARK

**REEL: 1826 FRAME: 0187** 

Country: Denmark	DURACAST	Country: United States of America	DURABURN	C-CAT  Country: United States of America	Thursday, November 05, 1998  Trademark Name
Owner: UCAR Carbon Technology Corp.  Agent: BUDD Budde Schou & Co.  Classes: 19  Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	GSPEC MR 1005	Owner: UCAR Carbon Technology Corp. RClasses: 1, 17, 19 R Goods: graphite blocks for use in electric discharge machining	GSPEC MR 1202	Owner: UCAR Carbon Technology Corp. Classes: 1 Remarkable Condenses: Carbonaccous cement catalyst for joining or bonding carbon and graphite products, namely, clectrodes, bricks, cathode blocks, specialty graphite and refractory shapes	Trademark List  Division Attorncy(s) Case Number S
25-Jan-1995 21-Apr-1995 Remarks: ling and	Registered 0592/95 2532/95	27-Oct-1998 Remarks: Search ordered 10/7/98. Request to file application 10/15/98. Application filed via express mail 10/27/98.	Pending	Registered 74/455328 2051081  Remarks: 08-Nov-1993 08-Apr-1997  Ring or s, namely, ecialty	List  Application Registration Status Number/Filing Number/Date
	21-Apr-2005	il to		08-Apr-2007 25-Feb-1995	Page: 1 ion Renewal First Use Date Date Date

Thursday, November 05, 1998			!		
Tradamat. W	Trademark List				Page: 2
DURACACT	Attorney(s) Case Number Status	Application Number/Filing	Registration	wal	First Use
Collings: Eight	GSPEC MR 1006 Registered		1400/6		שונכ
Miraina (	Owner: UCAR Carbon Technology Corp.		20 14.000	20 <b>-</b> May-2006	
	Agent: BERG Berggren OY AB	50 Jan-1775	20-way-1990		
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.				
Courter					
Sound J. 11dilCC	Owner: UCAR Carbon Technology Corp.			23-Feb-2005	
	Agent: RINU Rinuy, Santarelli		73~FeD-1993		
	Classes: 19  Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.				
Country Germany	GSPEC MIR 1008 Registered	395036054			
The Symmetry			28-Sen_100s	28-Sep-2005	
	Agent: LOUI Louis, Pohlau, Lohrentz & Sege		#0 00p #225		
	Classes: 19 Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous maters.				
DURACAST	GSPEC MP				
Country: Ireland, Republic of	CAR Carbon Technology Corp.	1146/95 17-Feb-1995	173285 1 17-Feb-1995	17-Feb-2002	
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.				-

Thursday, November 05, 1998	Trademark List	List			The state of the s	Page: 3
Trademark Name	Division  Attornay(c)	1	Application	Registration	Renewal	First Use
DURACAST	Case Number	Status	Number/Filing	Number/Date	Date	Date
DURACASI	GSPEC MR 1010	Registered	96718	96718	25-lan-2002	
Country: Israel	Owner: UCAR Carbon Technology Corp.	Ţ	26-Jan-1995	08-Oct-1996	E0-3011 E00E	
	Agent: MULF A.E. Mulford					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ling and				
DURACAST	GSPEC MR 1011	Registered	95C/000868	717975	77_Feh_7005	
Country: Italy	Owner: UCAR Carbon Technology Corp.	Ç	22-Feb-1995	13-Jun-1997	## 1 60° E000	
	Agent: BARZ Ing. Barzano & Zaardo Roma S.P	S.P				
	Classes: 1	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ing and				
DURACAST	GSPEC MR 1012	Registered	95/0653	173947	06-Jun-2006	
Country Norway	Owner: UCAR Carbon Technology Corp.		02-Feb-1995	06-Jun-1996		
	Agent: BERG Bergen Patentkontor					-
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ing and				
DURACAST	GSPEC MR 1013	Registered	306816	306816	03-Jan-2006	
Country: Portugal	Owner: UCAR Carbon Technology Corp.	,	27-Jan-1995	1996	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
	Agent: CUNH A.G. Da Cunha Ferreira LDA					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and	ng and				

Thursday, November 05, 1998	Trademark List	ist				Page: 4
Trademark Name	Division Attorney(s) Case Number	of the state of th	Application	Registration	Renewal	First Use
DURACAST	GSPEC MR 1014	Registered	0	10/8/729	OD Eat DOOR	Date
Country: Spain	Owner: UCAR Carbon Technology Corp.	Ċ		02-Feh-1995	0007±000	
	Agent: POLO Carlos Polo			0 1 1 0 1 1 1 1		
	Classes: 1	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	g and				
DURACAST	GSPEC MR 1015	Registered	95-0785	307171	מחחה החחה	
Country: Sweden	Owner: UCAR Carbon Technology Corp.	C	24-Jan-1995	22-Dec-1995	**-1000	
	Agent: ALBI Albihns Patentbyra Stockholm A					
	Classes: 1	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	gand				
DURACAST	GSPEC MR 1016	Registered	2009155	2009155	27-Jan-2005	
Country. United Kingdom	Owner: UCAR Carbon Technology Corp.		27-Jan-1995	27-Jan-1995		
	Agent: GRAN Grant, Spencer, Caisley & Port					
	Classes: 1	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	and				
DURACAST  Country: United States of America	GSPEC MR 1017	Registered	74/454090	2003368	24-Sep-2006	
Commen plants of Willelley	Owner: UCAR Carbon Technology Corp. Classes: 19	Remarks	04-Nov-1993	24-Sep-1996		
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	and				

Trademark Name  Attorney(s)  OURAPRESS  Country: United States of America  Classes: 1  Goo is: artificial graphite for use in indupressing of metallic powders	Trademark List		Page: 5
	Caso Number Status	; }	Renewal
	Diameter Comments	Manufer/Filling Manufer/Pate	Date Date
0.5	1200 Pending 75	75/517643	The state of the s
Goo is: artificial graphite pressing of metal	Remarks:	13-Jul-1998	
	ndustrial hot		
	1023 Registered 75/	75/194888 2189843	15-Sep-2008 23-Dec-1997
Owner: UCAR Carbon Technology Corp.  Classes: 17		08-Nov-1996 15-Sep-1998	

Goods: Flexible graphite sheet gasket material for use in industrial applications.

		10-l <sub>11</sub> l-1998	08-Oct-1996		chaology Com	Owner: IICAR Carbon Tachnology Com		Country: Janan
	10-Jul-2008	4166366	113097/96	Registered	1028	MR		GRAFGUARD
							Published	SE
							Published	PT
							Published	MC
							Published	TI
							Published	Œ
							Published	GR
							Published	GB
							Published	FR
							Published	FI
							Published	ES
							Published	DK
					fire retardant products in int. class 1.	fire retardant pro	Published	DE
				facture of	s for use in the manul	Goods: Graphite particles for use in the manufacture of	Published	ВХ
				Remarks:		Classes: 1	Published	
					Partners	Agent: GEVE Gevers & Partners	Designated Countries	Designat
			20-Aug-1996		chnology Corp.	Owner: UCAR Carbon Technology Corp	Community	Country: European Community
			327,031	Published	1027	MR		GRAFGUARD
First Use Date	Renewal Date	Registration Number/Date	Application Number/Filing	Status	Case Number	Division Attorney(s)		Trademark Name
Page: 6				List	Trademark List		er 05, 1998	Thursday, November 05, 1998

Classes: 1

Rcmarks: Renewal due between 6/11/07 and

7/10/08.

Goods: Graphite particles for use in the manufacture of fire retardant products, in Int. Class 1.

Agent: SUZU Suzuye & Suzuye

	Edition of place of Willelle	Country: United States of Amazin	Trademark Name		Thursday, November 05, 1998
	Owner: UCAR Carbon Technology Corp. Classes: 9	MR 1029	rncy(s)	Trademark List	
Kemarks	<del>.</del>	Registered	Status	List	
Also searched charg	20-May-1996 04-Nov-1997		Application Number/Filing		
uard.	04-Nov-1997	75/106979 2111370 04-Nov-2007	Registration Renew Number/Date Date		
		04-Nov-2007	Renewal First Use		
		7	First Use Date	Page: 7	
٧E	DΕ	MA	ARK		

Goods: Graphite particles for use in the manufacture of fire retardant products

Applicant is owner of Reg. Nos. 1,681,196 for grafoil and 1,812,925 for Grafkote (by Examiner's Amendment of 10/21/96).

Hursday, November 05, 1998	Trademark List	k List	- 1	5	Page: 8
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration	Renewal	First Use
GRAFKOTE	MR 1030	red	1812925	21-Dec-2003	l l
Community. Connect States of America	Owner: UCAR Carbon Technology Corp. Classes: 17	01-Nov-1991 21-Dec-19 Remarks: Also conducted full searches for	21-Dec-1993 I searches for		
		Graphkoke Graflene and Graphlene. Additional preliminary searches were conducted for	te and onal preliminary ucted for		
		Monofilm, Monograf, Monofoil, Soloseal, Solograf, Grafplas, Graf-	af, Monofoil, Grafplas, Graf-		
		plus, Grafilm, Thermocarb, Plasti- Kote, Super-Graf, Tuff-Foil and Extra.	mocarb, Plasti- ſuff-Foil and		
		Consent given by Dixon Ticonderoga to use GRAFKOTE for restricted goods: flexible graphite	ixon GRAFKOTE for xible graphite		
		and polymer composite sheets and rolls.	site shects and		
	Goods: Flexible graphite and polymer composite sheets and rolls for use as gaskets in the fluid sealing	site shects id sealing			
	The midwelles	SHICS.			
GRAFLITE	MR 1203	Pending			
Country: Office States of Afficence	Owner: UCAR Carbon Technology Corp. Classes: 1	21-Oct-1998 Remarks: ITU application filed via express	d via express		

**REEL: 1826 FRAME: 0195** 

Goods: natural graphite-based blocks and shapes for use in industrial high temperature applications.

21-Oct-1998 Remarks: ITU application filed via express

mail 10/21/98.

Thursday, November 05, 1998		Trademark I is:	T ic				Page: 9
Trademark Name	Division Attornov(s)			Application	Registration	Renewal	First Use
GRAFOIL	MR	1034		a	1270200	00 1/2 1000	D 1100
Country: Argentina			5 CHO HILL		1270770	06-14141-1220	
County: Algorithm	Owner: UCAR Carbon Technology Corp.	echnology Corp.			08-Mar-1988		
	Agent: MARV Marval, O'Farrell & Mairal	O'Farrell & Mairal					
	Classes: 22		Remarks: (See a)	(See also Der No. 1 279 707)	7070		
				Assignment filed for recordal 3/1/90; recorded 8/3/92. License filed 5/9/90.	recordal 92. License		
	Goods: Carbon and graphite in the form of flexible	hite in the form of fle	xible				
	strips, tapes, ribl for textile use	strips, tapes, ribbon, foam, strands, filaments, for textile use.	aments,				
GRAFOIL	MR	1035	Renewing		1278797	08-Mar-1998	
Country: Argentina	Owner: UCAR Carbon Technology Corp.	echnology Corp.			08-Mar-1988		
	Agent: MARV Marval, O'Farrell & Mairal	O'Farrell & Mairal					
	Classes: 17		Remarks: (This is between Assignm 8/28/92.	(This is old Reg. No. 897,212 split between classes 17 and 22) Assignment filed 3/1/90; recorded 8/28/92	897,212 split id 22) 90; recorded		
	<b>.</b>			License filed 5/9/90.			
	Goods: Carbon and graphite in the form of flexible webs, cloth, individual or laminated sheets,	Carbon and graphite in the form of flexible webs, cloth, individual or laminated sheets,	xible leets,				
	strips, tapes, ribbon, foar other than for textile use	strips, tapes, ribbon, foam, strands, filaments, other than for textile use.	aments,				
GRAFOIL	MR	1036	Registered		1381802	31-Mav-2000	- Carlos A.
Country: Argentina	Owner: UCAR Carbon Technology Corp	chnology Corp.			1990	•	
	Agent: MARV Marval, O'Farrell & Mairal	D'Farrell & Mairal			,		
	?						

Classes: 17

Remarks:

Goods: Gaskets and packing rings.

Ihursday, November 05, 1998	Trademark List	k List				Page: 10
Trademark Name	Division Attorney(s) Case Number		Application	Registration	wal	First Use
GR A FOII		Status	Number/Filing	Number/Date	Date	Date
O STATE OFF	MR 1037	Registered		A288753	11-Jul-2006	
Country: Australia	Owner: UCAR Carbon Technology Corp.			11-Jul-1982		
	Agent: CALL Callinan Lawrie					
	Classes: 17	Remarks: A	Assignments recorded 11/10/89	ed 11/10/89		
	Goods: Carbon and graphite in the form of sheets, strips, tapes and ribbons, all of the foregoing being foil or laminates of foil and all being	g	· ·			
GRAFOIL		,				
Country: Rrazil	MK 1038	Registered	750133090	750133090	14-Nov-2004	
County). Didtil	Owner: UCAR Carbon Technology Corp.		16-Jul-1975	14-Nov-1995		

Goods:

816459495 - court action pending as of 10/98.

Opposition filed against Juntalit Ind e Com. - GRAFOIL reg. No.

Agent: DANI Daniel & Cia

Remarks: Opposition filed against Nacional de Grafite Ltda. - GRAFOIL appln. No. 820695084 - 9/98.

Country: China	GRAFOIL	Country: Canada	Trademark Name GRAFOIL	Thursday, November 05, 1998
Owner: UCAR Carbon Technology Corp.  Agent: CCPIT CCPIT Patent and Trademark Law Classes: 15  Registered 162830 162830 28-Sep-2002 30-Sep-1982 29-Sep-1992 Classes: 15  Remarks: Assignment and license recorded. Goods: Carbon and Graphite flexible webs, sheets, strips, tape, foam, strands and filaments.	Remarks: Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.  Amended 9/26/69 to include gaskets and packing rings.  Amended 7/31/73 to include graphite foam.	Owner: UCAR Carbon Technology Corp.  Agent: SIM Sim & McBurney  Registered 137196 04-Sep-2009  04-Sep-1964	Orney(s) Case Number Status Number/Filing Number/Date Date Date	Trademark List
			Jse	Page: 11

Thursday, November 05, 1998	Trademark List	List				Page: 12
Trademark Name	Division Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use
Country: Colombia	MR 1042	Registered	375258	i I	28-Jan-2008	
Country, Coloniold	Owner: UCAR Carbon Technology Corp.		11 <b>-</b> Feb-1993	1998		
	Agent: CAVE Cavelier Abogados					
	Classes: 17	Remarks: 1	This record was entered for	ered for		
		d V	purposes of the opposition to Grafoi lby Textiles de Asbestos LTDA - opposition successful 12/97. Venezuelan Reg. No. 84,627-F dated 7/22/77 cited as priority	sition to Grafoi stos LTDA - 1 12/97. . 84,627-F		
	Goods: Rubber, gutta-percha, gum asbestos, mica and goods made from these materials and not included in other classes: plastics in extruded form for use in manufacture; packing, stopping	G.				
CR V EOII	Inetal.					
Country: Colombia	MR 1043	Registered	375259	152993	28-Feb-2004	
County, Colvilloid	Owner: UCAR Carbon Technology Corp.		11-Feb-1993	28-Feb-1994		
	Agent: CAVE Cavelier Abogados					
	2					

Classes: 1

Remarks: Opposition to CRAFOL pending as of 10/98.

Goods:

	Country: Denmark	Trademark Name GRAFOIL	Inursday, November 05, 1998
Agent: BUDD Budde Schou & Co.	Owner: IICAR Carbon Toob 1044	y(s)	Trademark List
	Registered	Status	List
	ed	Application Number/Filing	
13-Feb-1981	674/1981 13-Feb-2001	Registration Renev Number/Date Date	
	13-Feb-2001	Renewal Date	
		First Use Date	Page: 13
ADE	ΞM	ARK	

Remarks: Assignment recorded 2/7/90.

oods: Flexible webs, cloths, individual or laminated

sheets, strips, ribbons and foam All the said

Classes: 17

Goods: Flexible webs, cloths, individual or laminated sheets, strips, ribbons and foam. All the said goods made wholly of carbon and graphite for use as packing materials, including packing rings, and as insulating and sealing materials.

Thursday, November 05, 1998	Trademark List	List			Page: 14
Trademark Name	Division Attorncy(s) Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR 1045	Registered 37291	37291	01-Apr-2006	
Country: European Community	Owner: UCAR Carbon Technology Corp.	01-Apr-1996	28-Jan-1998		
Designated Countries	Agent: GEVE Gevers & Partners				
AT Registered	Classes: 1 17	Remarks:			
BX Registered	Goods: Carbon and graphite in the form of flexible	xible			
DE Registered	webs, cloths, individual or laminated sheets,	heets,			
DK Registered	strips, tapes, ribbons, toam, strands and filaments in Int. Class 1. Gaskets packing	d King			
ES Registered	rings, insulating and sealing materials in Int.	in Int.			
FI Registered	Class 17.				
FR Registered					
GB Registered					
GR Registered					
IE Registered					
IT Registered					
MC Registered					
PT Registered					
SE Registered					

Country: Ireland, Republic of	GRAFOIL	Country: Greece			Trademark Name GRAFOIL Country: Finland	Thursday, November 05, 1998
Owner: UCAR Carbon Technology Corp.  Agent: KELL F.R. Kelly & Co.  Classes: 1  Goods: Graphite in the form of flexible webs, cloths, filaments for general use in the industrial arts;  Registered 6094/92 154738 18-Nov-1999  18-Nov-1999 18-Nov-1992  Registered 6094/92 154738 18-Nov-1999  Remarks: 18-Nov-1992 18-Nov-1992  Remarks: 318-Nov-1992 18-Nov-1992	Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, gaskets and packing rings.  Remarks: Assignment recorded 1/24/90. Petition to record license filed. Petition to record license filed.  Petition to record license filed.  Petition to record license filed.	Owner: UCAR Carbon Technology Corp.  Agent: VAYA Vayanos Kostopoulos  Classes: 17	Remarks: Assignment recorded 12/31/89.  Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments.	7,816 06-Oct-2000 06-Oct-1980	ark Li	

Thursday, November 05, 1998		Trademark List	ist				Page: 16
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal	First Use
GRAFOIL	MR	1051	red	6095/92	154739	1999	
Country: Ireland, Republic of	Owner: UCAR Carbon Technology Corp.	chnology Corp.		18-Nov-1992	18-Nov-1992		
	Agent: KELL F.R. Kelly & Co.	& Co.					
	Classes: 17		Remarks: A	Associated with GRAFOIL appln. No. 6094/92.	AFOIL appin.		
			ତ ୫	Worldwide consent with Societe Gravograph (GRAVOFOIL).	with Societe OFOIL)		
	Goods: gaskets and packing rings	ng rings					
GRAFOIL	MR	1052	Registered		1664036	23-Fcb-2004	
Country: Japan	Owner: UCAR Carbon Technology Corp.	hnology Corp.			23-Feb-1984		
	Agent: SUZU Suzuye & Suzuye	Suzuye					
	Classes: 34		Remarks: Oi Tr 11	Original certificate lost (sent to Traub 3/84) Assignment recorded 11/5/90.	ost (sent to ment_recorded		
	Goods: Individual or laminated sheets, strips, and foam and all made of carbon and graphite.	nated shects, strips, an	nd foam				
GRAFOIL	MR	1053	Registered	63714/88	2326663	30-Aug-2001	
Country: Japan	Owner: UCAR Carbon Technology Corp.	hnology Corp.		06-Jun-1988	30-Aug-1991		
	Agent: SUZU Suzuye & Suzuye	Suzuye					

Classes: 16

Remarks: This replaces Reg. No. 1,247,556.

Lapsed due to failure by Balogh to

renew.

Goods: Flexible webs, knittings, felts, non-woven

graphite, and all other goods in the class.

fabrics, tapes and ribbons, all made of carbon or

Thursday, November 05, 1998		Trademark List	isi			Page: 17
Trademark Name	Division Attorney(s)	Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR	1056	Registered	201991	10-Jan-2002	
Country: Mexico	Owner: UCAR Carbon Technology Corp.	chnology Corp.		10-Jan-1992		
	Agent: BECE Becerrill, Coca & Becerril, S.	Coca & Becerni, S.				
	Classes: 35		Remarks: Assignment and license recorded 2/9/93.	cense recorded		
	Goods: Gaskets and packing rings.	ing rings.				
GRAFOIL	MR	1057	Registered	202353	10-Jan-2002	
Country: Mexico	Owner: UCAR Carbon Technology Corp.	chnology Corp.		10-Jan-1992		
	Agent: BECE Becerrill, Coca & Becerril, S.	Coca & Becerril, S.				
	Classes: 13		Remarks: Assignment and license recorded 2/3/93.	ense recorded		
	Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets	Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets	ible erk			
	strips, tapes, ribbo	strips, tapes, ribbons, foam, strands, filaments	ments.			
GRAFOIL	MR	1058	Registered	120039	12-Jul-2012	
Country: New Zealand	Owner: UCAR Carbon Technology Corp. Classes: 17	thnology Corp.	12-Jul-1984 Remarks: Assignment recorded 8/21/90.	12-Jul-1984 ed 8/21/90.		

Goods: Carbon and Graphite in the form of flexible

webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments,

gaskets and packing rings.

Thursday, November 05, 1998		Trademark List	List				Page: 18
Trademark Name	Division Attorncy(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR	1059	Registered		104052	17-Jan-2000	
Country: Norway	Owner: UCAR Carbon Technology Corp.	chnology Corp.			17-Jan-1990		
	Agent: BERG Bergen Patentkontor	atentkontor					
	Classes: 17		Remarks: A	Remarks: Assignment and license recorded	nse recorded		
		•		9 11 0 2 .			
	Goods: Carbon and Graphite in the form of flexible webs cloths individual or laminated charts	Carbon and Graphite in the form of flexible webs cloths individual or laminated shoets	xible beets				
	strips, tapes, ribbons, foan gaskets and packing rings	strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	aments,				
GRAFOIL	MR	1061	Registered	95298	95298	17-Dec-2017	
Country: Philippines	Owner: UCAR Carbon Technology Corp.	chnology Corp.		19-Sep-1994	17-Dec-1997		
	Agent: SIGU Siguion R	Siguion Reyna, Montecillo & On	)n				
	Classes: 9		Remarks: T	Remarks: This application replaces Reg. No.	laces Reg. No.		
	Goods: Cranbita in the f			• 3• • • •			
	sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial art	Sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts	oloths, id				
GRAFOIL	MR	1064	Registered	75/3634	75/3634	14-Jul-2005	
Country: South Africa	Owner: UCAR Carbon Technology Corp.	chnology Corp.		14-Jul-1975	14-Jul-1995		
	Agent: ADAM Adams & Adams	Adams					

Classes: 17

Remarks: Assignment recorded 9/7/90.

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual filaments; gaskets and

packing rings.

	7:	l rademark List	ist				Page: 19
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR	1065	řed	165401	165401	10-Nov-2008	
Country: Sweden	Owner: UCAR Carbon Technology Corp.	hnology Corp.	,	10-Nov-1978	-1988		
	Ágent: ÁĽBI Albihns Pa	Albihns Patentbyra Stockholm A	,IA				
	Classes: 10		Remarks: ,	Assignment recorded 2/23/90.	12/23/90.		
	Goods: Carbon and graphite in the form of flexible	te in the form of flexi		(			
	webs, cloths, individual or strips, tapes, ribbons, foan gaskets and packing rings.	webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	eets, ments,				
GRAFOIL	MR	1068	Pending	87013219			
Country: Taiwan	Owner: UCAR Carbon Technology Corp.	hnology Corp.		24-Mar-1998			
	Agent: LEE Lee and Li						
	Classes: 17		Remarks: []	Replaces 87,440 - covered goods	overed goods		
	Goods: Gaskets and packing rings.	ıg rings.					
GRAFOIL	MR	1069	Pending	87013218			40.
Country: Taiwan	Owner: UCAR Carbon Technology Corp.	hnology Corp.		24-Mar-1998			
	Agent: LEE Lee and Li						
	Classes: 1		Remarks: R	Replaces 87,440 (covered goods not in use).	ered goods not		
	Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands, and filaments for general use in industry.	Graphite in the form of flexible webs, clot sheets, strips, tapes, ribbons, strands, and flaments for general use in industry.	oths, d				

Thursday, November 05, 1998		Trademark List	ist				Page: 20
Trademark Name	Division Attorncy(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR	1070	Registered	59627	99456	12-Sep-2007	
Country: Turkey	Owner: UCAR Carbon Technology Corp	chnology Corp.		12-Sep-1977	12-Sep-1997		
	Agent: DERIS Deris Patents and Tradomark Ag	ents and Tradomark A	50				
			Remarks: A	Remarks: Assignment recorded 1990.	d 1990.		
	Goods: Carbon and Graphite in the form of flexible	hite in the form of fle	xible				
	webs, cloths, individual or strips, tapes, ribbons, foan gaskets and packing rings	webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	heets, aments,				
GRAFOIL	MR	1071	Registered	938730	938730	25-Feb-2004	
Country: United Kingdom	Owner: UCAR Carbon Technology Corp	chnology Corp.		25-Feb-1969	25-Feb-1990		
	Agent: GRAN Grant, Spencer, Caisley & Port	encer, Caisley & Por					
	Classes: 17		Remarks: (	Remarks: Consent obtained from Courtaulds Ltd. 1/20/71. Assignment recorded 4/22/91.	om Courtaulds d 4/22/91.		
	Goods: Carbon and graphite, all being foil or laminates of foil and in the form of sheets, strip, tapes and ribbons, all for use in manufactures, gaskets and	Carbon and graphite, all being foil or laminates of foil and in the form of sheets, strip, tapes and ribbons, all for use in manufactures, gaskets and	aminates tapes and skets and				
Ca veou	) (T)	1072	Donalda		758770	15-Oct-2003	
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 1	schnology Corp.	Remarks: I	Remarks: High Temperature Materials, Inc. merged with UCC 3/1/66, recorded	15-Oct-1983 Watcrials, Inc. V/1/66, recorded	:	

Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and

filaments for general use in the industrial arts.

Thursday, November 05, 1998							Dagat 11
Trademark Name	Division  Attornay(c)	Trademark List	ist	Application	Registration	Renewal	First Use
GRAFOIL	MR	1073	Registered		850035	04-100-2008	
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 17	chnology Corp.	Remarks:		04-Jun-1988		
	Goods: Gaskets and packing rings	ng rings.					
GRAFOIL							
Country: United States of Amorica	Owner HOAD Out - To	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lenang	)			
County: Ontica States of Miliciles	Owner: UCAR Carbon Technology Corp. Classes: 1	chnology Corp.	Remarks:	21-Oct-1998 Remarks: New application filed after 1196891 cancelled.	d after 1196891		
	Goods: Graphite paste for use as a pipe thread sealant or thread lubricant; injectable graphite particle packing for use in packing stuffing hoves on	Graphite paste for use as a pipe thread sealant or thread lubricant; injectable graphite particle packing for use in packing stuffing hoves on	sealant particle				
	packing for use in packing stuvalves, pums or sliding joints	packing for use in packing stuffing boxes on valves, pums or sliding joints.	es on				
GRAFOIL	MR	1076	Registered	84627	84627	22-Jul-2007	
Country: Venezuela	Owner: UCAR Carbon Technology Corp.  Agent: VALL Valling Grisanti & Asociados	chnology Corp.		22-Jul-1977	22-Jul-1992		
	Classes: 1		Remarks: /	Assignment recorded 1/3/94. Oppositions filed against GRAFOIL	1 1/3/94. ainst GRAFOIL		
				applications filed by Juan Fernandez Martinez; pending as of 10/98.	Juan ; pending as of		

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets,

strips, tapes, ribbons, foam, strands, filaments.

Trademark Name					or use as	Goods: plates, cylinders and other materials for use as industrial heat shields, baffles or seals.	Goods: plates, cylinde industrial hear	
Trademark List  Division  Attorney(s)  Case Number   Status   Number/Filing   Number/Date   Date   D				13-Jul-1998	Remarks:	1 Technology Corp.	Owner: UCAR Carbon Classes: 1	Country: United States of America
Trademark List    Division   Attorney(s)   Case Number   Status   Number/Filing   Number/Date   Date   Date   Date   Date   Date				75/517642	Pending	1201	MR	GRAFSHIELD
Trademark List  Application Registration Renewal First  Application Number/Date Date  DCHINESE MR 1077 Registered 124151 16-Nov-1999  an Owner: UCAR Carbon Technology Corp.  Goods: Gaskets and packing rings.  DKOREAN MR 1079 Registered 4/10/90.  Goods: Gaskets and packing rings.  DKOREAN MR 1079 Registered 6/8805 24-Apr-2000  Agent: KIM Kim, Shin & Yu  Classes: 16  Classes: 16  Classes: 16  MR 1080  MR 1080  Goods: Natural graphite and graphite.  ATAKANA MR 1080  Owner: UCAR Carbon Technology Corp.  Agent: SUZU Suznye & Suznye  Classes: 34  Remarks: Assignment recorded 4/11/90.					and foam, other	laminated sheets, strips a ubon or graphite, and all lass.	Goods: Individual or all made of ca goods in the c	
Trademark List			111/5/90.	Assignment recorded	rks:		Classes: 34	
Division Attorney(s)  Order UCAR Carbon Technology Corp.  Agent: LEE Lee and Li  Classes: 92  CREAR Owner: UCAR Carbon Technology Corp.  Agent: KIM Kim, Shin & Yu  Classes: 16  Classes: 16  Application Registration Renewal First  Application Number/Filing Number/Date Date Date  Application Registration Renewal First  Date Date Date Date Date Date  Date Date Date Date Date  Date Date Date Date  Date Date Date Date Date  Date Date Date Date  Date Date Date Date  Date Date Date Date Date  In-Nov-1989  Agent: LEE Lee and Li  Classes: 92  Remarks: Assignment recorded 4/10/90.  Agent: KIM Kim, Shin & Yu  Classes: 16  Class						≀e & Suzuye	Agent: SUZU Suzuy	
Trademark List    Division			25-Mar-1995	25-Mar-1995		1 Technology Corp.	Owner: UCAR Carbon	Country: Japan
Division Attorney(s) Case Number  MR 1077 Registered 124151 Classes: 92 Classes: 92  MR 1079 Goods: Gaskets and packing rings.  MR 1079 Agent: UCAR Carbon Technology Corp. Agent: KIM Agent: UCAR Carbon Technology Corp. Classes: 16  Classes: 16  Classes: 16  Classes: 16  Classes: 16  Crase Number		25-Mar-2005			Registered	1080	MR	GRAFOIL IN KATAKANA
Division Attorney(s) Case Number  Status Number/Filing Number/Date Date Date  Date Date Date Date Date						nite and graphite.	Goods: Natural graph	
Division  Attorney(s)  Case Number  Status  Number/Filing  Owner: UCAR Carbon Technology Corp.  Agent: LEE Lee and Li  Classes: 92  Goods: Gaskets and packing rings.  Application  Registered  Application  Number/Filing  Number/Filing  Number/Filing  Number/Filing  Number/Filing  Number/Date  Date  D			d 4/17/90. change	Assignment recorded License and address recorded 6/15/93.			Classes, 10	
Division Attorncy(s) Case Number Status Number/Filing Number/Date Date Date Date Pagent: LEE Classes: 92 Remarks: Assignment recorded 11/15/89. License recorded 4/10/90. EAN Coods: Gaskets and packing rings. Agent: UCAR Carbon Technology Corp. Agent: UCAR Carbon Technology Corp. Agent: KIM Kim Skin & V. Agent: KIM Kim Skin & V. Agent: KIM Kim Skin & V.						Silli & I u	3	
Division Attorney(s) Case Number  Status Number/Filing Number/Date Date  Division Attorney(s)  Case Number Status Number/Filing Number/Date Number/Date Date  Date  Pagent: LEE Lee and Li Classes: 92  Classes: 92  Goods: Gaskets and packing rings.  Covner: UCAR Carbon Technology Corp.  Goods: Gaskets and packing rings.  Covner: UCAR Carbon Technology Corp.  Goods: Gaskets and packing rings.  Remarks: Assignment recorded 11/15/89. License recorded 4/10/90.  EAN  Owner: UCAR Carbon Technology Corp.  Registered  68805 24-Apr-2000			1			Shin & V.	Agent: KIM Kim	
Division  Attorney(s)  Case Number  MR  1077  Agent: LEE  Lee and Li  Classes: 92  MR  1079  Registered  Remarks: Assignment recorded 11/15/89.  License recorded 4/10/90.  Registered  Application  Registration  Registration  Registration  Rencwal First  Application  Rencwal First  Application  Registered  124151  16-Nov-1999  16-Nov-1989  16-Nov-1989  License recorded 11/15/89.  License recorded 4/10/90.						n Technology Corp.	Owner: UCAR Carbor	Country: Korea, South
Division  Attorney(s)  Case Number  Status  Number/Filing  Number/Date  Date  Date  MR  1077  Registered  Owner: UCAR Carbon Technology Corp.  Agent: LEE Lee and Li  Classes: 92  Remarks: Assignment recorded 11/15/89.  License recorded 4/10/90.		24-Apr-2000			Registered	1079	MR	GRAFOIL AND KOREAN
Trademark List  Division  Attorney(s)  Case Number  Status  Number/Filing  Owner: UCAR Carbon Technology Corp.  Agent: LEE Lee and Li  Classes: 92  Trademark List  Application Registration Renewal First  Number/Filing  Number/Pate Date  Date  16-Nov-1999  16-Nov-1989  Remarks: Assignment recorded 11/15/89.  License recorded 4/10/90.						oacking rings.	Goods: Gaskets and p	
Trademark List  Division Attorney(s) Case Number Status Number/Filing Number/Date Date  CHINESE Owner: UCAR Carbon Technology Corp.  Application Registration Renewal First Number/Filing Number/Date Date  Application Number/Filing Number/Date Date  Application Registration Number/Date Date  Application Number/Date Date  16-Nov-1999  16-Nov-1989			<b>d</b> 11/15/89.  0/90.	Assignment recorded License recorded 4/1			Classes: 92	
Trademark List  Division  Attorney(s) Case Number Status Number/Filing Number/Date Date  CHINESE  Owner: UCAR Carbon Technology Corp.  Trademark List  Application Registration Renewal First Number/Filing Number/Date Date  Application Registration Number/Date Date  Application Registration Number/Date Date  16-Nov-1999						nd Li		
Trademark List  Division  Attorney(s) Case Number Status Number/Filing Number/Date Date  CHINESE MR 1077 Registered 124151 16-Nov-1999			16-Nov-1989			n Technology Corp.	Owner: UCAR Carbon	Country: Tanvan
Trademark List  Division  Attorney(s) Case Number Status Number/Filing Number/Date Date		16-Nov-1999	124151	12	Registered	1077	MR	GRAFOIL AND CHINESE
Trademark List	First Use Date	wal	Registration Number/Date	Application Number/Filing	Status			Trademark Name
	Page: 22			The second section of the section of the second section of the section of the second section of the section of the second section of the section of th	List	Trademark		Thursday, November 05, 1998

Country: United States of America Owner: UCAR Carbon Technology Corp.  Classes: 7	MR Owner: UCAR Carbon Tech Agent: GRAN Grant, Spen Classes: 7 Goods: Machine tools, parts aforesaid goods, all	n Owner:   Agent Classes: Goods:	Country: Ireland, Republic of  Owner: UCAR Carbon Technology Corp.  Agent: KELL F.R. Kelly & Co.  Classes: 7  Goods: Graphite tooling systems used in tooling carbon and/or graphite composites for use in the defense, satellite and aerospace industries.	Thursday, November 05, 1998  Division  Attorncy(s)
MR 1087 Regis  Dwner: UCAR Carbon Technology Corp.  Plasses: 7 Remains Coods: Graphite tooling systems used in tooling carbon and/or graphite composites for use in the	1086 nology Corp. cer, Caisley & Port and fitting for all ti	1085 nology Corp. chines.	1084 10logy Corp. 2 Co. 2 tems used in tooling tems used in the posites for use in the laerospace industri	Trademark List
rks:	Registered Remarks:	Registered Remarks:	stered stered	tatus
d 073356 1702837 27-Jun-1990 28-Jul-1992 Section 8 & 15 accepted 3/23/98.		81063363 23-Dec-1992	6100/92 18-Nov-1992	Application Number/Filing
1702837 28-Jul-1992 sted 3/23/98.	1518774 13-Nov-1992	614602 10-Oct-1993	154737 18-Nov-1992	Registration Number/Date
28-Jul-2002	13-Nov-1999	30-Sep-2003	18-Nov-1999	Renewal
				Page: 23 First Use

and a second section

Trademark List  Division  Attorney(s)  Case Number  MR  1088  Registered  Trademark List  Application  Registration  Number/Filing  Number/Pate  Num
Application Number/Filing  d 723111  18-Apr-1988 Sections 8& 15 accepte 03-Mar-1989  03-Mar-1989  1  723722  1  21-Apr-1988 34 sections 8 & 15 accepte

	Country: United States of America			Country. Office States of America	SOCKET MARKING FOR ELECTRODES			Country: United States of America	Trademark Name	Thursday, November 05, 1998
Goods: Flexible graphite sheets for use in internal combustion engines and automotive heat shielding applications in Int. Class 1.	Owner: UCAR Carbon Technology Corp. Classes: 17	MR 1096	Goods: Carbon electrodes and graphite electrodes.	Owner: UCAR Carbon Technology Corp. Classes: 19	MR 1095	Goods. Excitactory familing mixes, in class 19.	Classes: 19	MR 1094	Division Attorney(s) Case Number	Trademark List
nal It	16-Jun-1997 Remarks:	Pending 75/309150	les.	Remarks:	Registered		28-May-1991 27-Oct-19 Remarks: Sections 8 & 15 accepted 3/3/98	Registered 74/170580	Application Status Number/Filing	ist
				11-Dec-1985	418218 11-Dec-2005		27-Oct-1992 epted 3/3/98.		Registration Renewal Number/Date Date	
					15			27-Oct-2002 18-Apr-1991	First Use Date	Page: 25

DURABURN  Country: United States of America	Thursday, November 05, 1998  Trademark Name  C-CAT  Country: United States of America
GSPEC MR 1202  Owner: UCAR Carbon Technology Corp.  Classes: 1, 17, 19  Goods: graphite blocks for use in electric disch machining	Division  Attorncy(s)  Case Number  Stat  MR  Owner: UCAR Carbon Technology Corp.  Classes: 1  Goods: Carbonaceous cement catalyst for joining or bonding carbon and graphite products, namely, electrodes, bricks, cathode blocks, specialty graphite and refractory shapes
emarks:	Aptatus Nu kegistered cemarks:
-1998 red 10/7/98. Request to tion 10/15/98. filed via express mail	plication Registration mber/Filing Number/Date 74/455328 2051081 08-Nov-1993 08-Apr-1997
	Page: 1 Renewal First Use Date Date  08-Apr-2007 25-Feb-1995
	GSPEC MR 1202 Pending Owner: UCAR Carbon Technology Corp. Classes: 1, 17, 19  Goods: graphite blocks for use in electric discharge machining

Thursday November 05 1000						
J	Trademark List					Page: 2
Trademark Name	Attorney(s) Case Number St	Application Status Number/Filing		Registration	wal	First Use
DURACAST				Number/ Pare	Date	Date
Country: Finland	v Com	1 5 J	•	143965	20-May-2006	
	Agent: BERG Berggren OY AB	50-341-1795		20-May-1996		
		Remarks				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals	đ				
DURACAST		Registered				
County: riance	Owner: UCAR Carbon Technology Corp.		<b>.</b>		23-reb-2005	
	Agent: RINU Rinuy, Santarelli			43 <b>-</b> 1°CU-1993		
		Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	14.				
DURACAST		Registered 395036054		30503605	2000	
country. Certifany	Owner: UCAR Carbon Technology Corp.			2	2002-q50-02	
	Agent: LOUI Louis, Pohlau, Lohrentz & Sege	ļ		orb-1999		
		Remarks;				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
Country: Ireland, Republic of		Registered 1146/95	177	173285 1	17-Feb-2002	
	Classes: 1 Remarks:  Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	17-Feb-1995 iarks:		17-Feb-1995		-

Inursday, November 05, 1998	Trademark List	List				Page: 3
Trademark Name	Division  Attorney(s)  Company Number		Application	Registration	Renewal	First Use
DURACAST		Registered	96718	96718	25-Jan-2002	Date
Country: Israel	Owner: UCAR Carbon Technology Corp.	(	26-Jan-1995	08-Oct-1996	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
	Agent: MULF A.E. Mulford					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ling and				
DURACAST	GSPEC MR 1011	Registered	95C/000868	712925	22-Feb-2005	
Country: Italy	Owner: UCAR Carbon Technology Corp.	•	22-Feb-1995	13-Jun-1997		
	Agent: BARZ Ing. Barzano & Zaardo Roma S.P.	S.P				
	Classes: 1	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ing and				
DURACAST	GSPEC MR 1012	Registered	95/0653	173947	06-Jun-2006	
Country: Norway	Owner: UCAR Carbon Technology Corp.		02-Feb-1995	06-Jun-1996		
	Agent: BERG Bergen Patentkontor					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ing and				
DURACAST	GSPEC MR 1013	Registered	306816	306816	03-Jan-2006	
Country: Portugal	Owner: UCAR Carbon Technology Corp.		27-Jan-1995	1996		
	Agent: CUNH A.G. Da Cunha Ferreira LDA					
	Classes: 19	Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.	ng and				

inursday, November 05, 1998					
	1 rademark List				Page: 4
ri aucimark Name	Attorney(s) Case Number Status	Application	Registration	wal	First Use
DURACAST		1 1	Trumper/Date	Date	Date
Country: Spain	Owner: UCAR Carbon Technology Com	_	1948738	02-Feb-2005	
	Agent: POLO Carlos Polo		02-Feb-1995		
	Classes: 1				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.				
DURACAST	GSPEC MR 1015 Registered	95_0785	202141		
Commy. Swedell	Owner: UCAR Carbon Technology Corp.	24-Ian-100s	33 73 1005	22-Dec-2005	
	Agent: ALBI Albihns Patentbyra Stockholm A	FT-1411-1775	77-Dec-1992		
	Classes: 1 Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals				
Country: United Kingdom	GSPEC MR 1016 Registered	2009155	2000155	77 7005	
THOME TANKS		27-Jan-1995	<b>2</b> 00	*/-3411-2000	
	Agent: GRAN Grant, Spencer, Caisley & Port		7 Jun 1//		
	Classes: 1 Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.				
DURACAS I	GSPEC MR 1017 Registered	74/454000	2002260		
Comments of America	Owner: UCAR Carbon Technology Corp.  Classes: 19  Remarks:	04-Nov-1993	996	24-3ch-2000	
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.			0	

Country: United States of America	EVBANDOGAT	Country: United States of America	DURAPRESS	Trademark Name	Thursday, November 05, 1998
Owner: UCAR Carbon Technology Corp. Classes: 17  Goods: Flexible graphite sheet gasket material for use in industrial applications.	Goo ls: artificial graphite for use in industrial hot pressing of metallic powders	Owner: UCAR Carbon Technology Corp. Classes: 1	GSPEC MR 1200	Division Attorney(s) Case Number	Trademark List
Registered Remarks: S for use	hot	Remarks:	Pending	Status	List
Registered 75/194888 2189843 08-Nov-1996 15-Sep-1998 Remarks: Statement of Use accepted 8/6/98.		13-Jul-1998	75/517643	Application Number/Filing	
2189843 15-Sep-1998 cepted 8/6/98.				Registration Number/Date	
15-Sep-2008	(C	<b>3</b>		Renewal Date	
15-Sep-2008 23-Dec-1997				First Use Date	Page: 5

			Haucmain Disc	S				, : 500
Trademark Name		Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFGUARD		MR	1027	Published	327,031			
Country: European Community	Community	Owner: UCAR Carbon Technology Corp.	chnology Corp.		20-Aug-1996			
Designate	Designated Countries	Agent: GEVE Gevers & Partners	Partners					
	Published	Classes: 1		Remarks:				
ВХ	Published	Goods: Graphite particles for use in the manufacture of	for use in the manufac	ture of				
DE	Published	fire retardant proc	fire retardant products in int. class 1.					
DK	Published							
ES	Published							
FI	Published							
FR	Published							
GB	Published							
GR	Published							
Æ	Published							
TI	Published							
MC	Published							
PT	Published							
SE	Published							
GRAFGUARD		MR	1028	Registered	113097/96	4166366	10-Jul-2008	
Country: Japan		Owner: UCAR Carbon Technology Corp.	chnology Corp.		08-Oct-1996	10-Jul-1998		

Classes: 1

Remarks: Renewal due between 6/11/07 and

7/10/08.

Goods: Graphite particles for use in the manufacture of fire retardant products, in Int. Class 1.

Division  Attorney(s)  Case Number  Status  Number/Filing  Number/Date  MR  1029  Registered  75/106979  Classes: 9  Remarks: Also searched charguard.  Applicant is owner of Reg. Nos. 1,681,196 for grafoil and 1,812,925  for Graphite particles for use in the manufacture of  P  Application  Registration  Renewal First Us  Number/Date  Date  Application  Remarks: Also searched charguard.  Applicant is owner of Reg. Nos. 1,681,196 for grafoil and 1,812,925  for Grafkote (by Examiner's  Amendment of 10/21/96).			Country: Office States of America	Country United States of A	Trademark Name	Thursday, November 05, 1998	
Application Registration Renewal First  stered 75/106979 2111370 04-Nov-2007  20-May-1996 04-Nov-1997  rks: Also searched charguard. Applicant is owner of Reg. Nos. 1,681,196 for grafoil and 1,812,925 for Grafkote (by Examiner's  Amendment of 10/21/96).	Goods: Graphite particles for use in the manuf		Owner: UCAR Carbon Technology Corp. Classes: 9	MR 1029	Attorney(s)	Trademark	
e age:	facture of	A fé l A	20-May-1996 04-Nov-1997 Remarks: Also searched charguard.	75/106979 2111370	Application Registration Renewal Number/Filing Number/Date Date	List Page: 7	

ods: Graphite particles for use in the manufacture of fire retardant products

Thursday, November 05, 1998	Trademark List		Page: 8
Trademark Name	Division Attorney(s) Case Number Status Number/Filing Number/Date n	Renewal	First Use
GRAFKOTE	1812925	21-Dec-2003	
Some years of Allienca	Owner: UCAR Carbon Technology Corp. 01-Nov-1991 21-Dec-1993 Classes: 17 Remarks: Also conducted full searches for		
	Graphkoke Graflene and Graphlene Additional preliminary		
	searches were conducted for	1	
	Monofilm, Monograf, Monofoil, Soloseal, Solograf, Grafplas, Graf-	6	
	plus, Grafilm, Thermocarb, Plasti- Kote, Super-Graf, Tuff-Foil and Extra		
	Consent given by Dixon Ticonderoga to use GRAFKOTE for		
	Goods: Flexible graphite and polymer composite sheets and rolls for use as gaskets in the fluid sealing and internal combustion engine industries.		
GRAFLITE			
Country: United States of America	Owner, IICAD C. 1 T. 1		
Figure 5 miles of Afficilly	Owner: UCAR Carbon Technology Corp. 21-Oct-1998		

Owner: UCAR Carbon Technology Corp. Classes: 1

21-Oct-1998 Remarks: ITU application filed via express

mail 10/21/98.

Goods: natural graphite-based blocks and shapes for use in industrial high temperature applications.

Thursday, November 05, 1998		Trademark List	List				Page: 9
Trademark Name	Division Attorney(s)	Case Number	fatus	Application	Registration	Renewal	First Use
GRAFOIL	MR	1034	) E		1278798	08-Mar-1998	
Country: Argentina	Owner: UCAR Carbon Technology Corp.	chnology Corp.	ı		08-Mar-1988		
	Agent: MARV Marval, O'Farrell & Mairal	D'Farrell & Mairal					
	Classes: 22		Remarks: (S	(See also Reg No. 1 778 797)	778 797)		
				Assignment filed for recordal 3/1/90; recorded 8/3/92. License filed 5/9/90.	r recordal //92. License		
	Goods: Carbon and graphite in the form of flexible webs, cloths individual or laminated cheets	Carbon and graphite in the form of flexible webs, cloths individual or laminated sheets	-				
	strips, tapes, ribbo for textile use.	strips, tapes, ribbon, foam, strands, filaments, for textile use.	aments,				
GRAFUIL	MR	1035	Renewing		1278797	08-Mar-1998	
Country: Argentina	Owner: UCAR Carbon Technology Corp.	chnology Corp.			08-Mar-1988		
	Agent: MARV Marval, O'Farrell & Mairal	)'Farrell & Mairal					
	Classes: 17		Remarks: (Ti bet As 8/2	(This is old Reg. No. 897,212 split between classes 17 and 22) Assignment filed 3/1/90; recorded 8/28/92	. 897,212 split nd 22) 1/90; recorded		
			Lic	License filed 5/9/90.	•		
	Goods: Carbon and graphite in the form of flexible webs, cloth, individual or laminated sheets,	Carbon and graphite in the form of flexible webs, cloth, individual or laminated sheets,	xible neets,				
	other than for textile use	other than for textile use.	iments,				
GRAFOIL	MR	1036	Registered		1381802	31-May-2000	
Country: Argentina	Owner: UCAR Carbon Technology Corp	hnology Corp.			1990	•	
	Agent: MARV Marval, O'Farrell & Mairal	Farrell & Mairal					

Classes: 17

Remarks:

Goods: Gaskets and packing rings.

Thursday November of 1000						
3) (	Trademark List	List				Page: 10
Trademark Name			Application	Registration	Renewal	First Use
GRAFOIT	Attorney(s) Case Number	Status	Number/Filing	Number/Date		Date
	MR 1037	Registered		A)88753	11_1,1_2006	
Country: Australia	Owner: UCAR Carbon Technology Com	(		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11.2m.7000	
	Agent: CALL Callinan Lawrie			11-Jul-1982		
	Classes: 17	Remarks: A	Assignments recorded 11/10/89	ed 11/10/89		
	Goods: Carbon and graphite in the form of sheets,			***************************************		
	strips, tapes and ribbons, all of the foregoing being foil or laminates of foil and all being	egoing				
	goods included in this class.	91118				
GRAFOIL	MR 1038	Registered	750133090	750133090	14-Nov-2004	
Country, DIAZII	Owner: UCAR Carbon Technology Corp.		16-Jul-1975	14-Nov-1995		

Goods:

Agent: DANI Daniel & Cia

Remarks: Opposition filed against Nacional de Grafite Ltda. - GRAFOIL appin.
No. 820695084 - 9/98.

816459495 - court action pending

as of 10/98.

Opposition filed against Juntalit Ind e Com. - GRAFOIL reg. No.

Country: China		Country: Canada	Thursday, November 05, 1998  Trademark Name
Owner: UCAR Carbon Technology Corp.  Agent: CCPIT CCPIT Patent and Trademark Law  Classes: 15  Registered 162830 162830 28-Sep-2002  30-Sep-1982 29-Sep-1992  Classes: 15  Remarks: Assignment and license recorded.  Goods: Carbon and Graphite flexible webs, sheets, strips, tape, foam, strands and filaments.	Remarks:  Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.  Amended 9/26/69 to include gaskets and packing rings.  Amended 7/31/73 to include graphite foam.	MR 1040 Registered 137196 04-Sep-2009 Owner: UCAR Carbon Technology Corp. 04-Sep-1964 Agent: SIM Sim & McBurney	Trademark List  Division  Attorney(s)  Case Number  Status  Number/Filing  Number/Date  Date  Page: 11  Application  Application  Registration  Renewal First Use  Number/Date  Date

Thursday, November 05, 1998		Trademark List	ist				Page: 12
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use
GRAFOIL	MR	1042	Registered		206335	28-Jan-2008	
Country: Colombia	Owner: UCAR Carbon Technology Corp.	echnology Corp.		11-Feb-1993	29-Jan-1998		
	Agent: CAVE Cavelier Abogados	Abogados					
	Classes: 17		Remarks: T	This record was entered for	ered for		
			d / 0 = F	purposes of the opposition to Grafoi lby Textiles de Asbestos LTDA - opposition successful 12/97. Venezuelan Reg. No. 84,627-F dated 7/22/77 cited as priority.	osition to Grafoi stos LTDA - 112/97.  1. 84,627-F  as priority.		
	Goods: Rubber, gutta-percha, gum asbestos, mica and goods made from these materials and not included in other classes: plastics in extruded	Rubber, gutta-percha, gum asbestos, mica and goods made from these materials and not included in other classes: plastics in extruded					
	form for use in m and insulating m metal.	form for use in manufacture; packing, stopping and insulating materials; flexible pipes, not of metal.	topping not of				
GRAFOIL	MR	1043	Registered	375259	152993	28-Feb-2004	
Country: Colombia	Owner: UCAR Carbon Technology Corp.	chnology Corp.		11-Feb-1993	28-Feb-1994		
	Agent: CAVE Cavelier Abogados	Abogados					

Classes: 1

Remarks: Opposition to CRAFOL pending as of 10/98.

Goods:

Thursday, November 05, 1998		Trademark List	ist				Page: 13
Trademark Name	Division Attorney(s)	Attorney(s) Case Number	Status	Application Number/Filing	Registration Renewal First Use Number/Date Date	Renewal Date	First Use Date
GRAFOIL	MR	1044	Registered	:d	674/1981	13-Feb-2001	
Country: Denmark	Owner: UCAR Carbon Technology Corp.	echnology Corp.			13-Feb-1981		

Classes: 17 Remarks: Assignment recorded 2/7/90. Goods: Flexible webs, cloths, individual or laminated

Agent: BUDD Budde Schou & Co.

Goods: Flexible webs, cloths, individual or laminated sheets, strips, ribbons and foam. All the said goods made wholly of carbon and graphite for use as packing materials, including packing rings, and as insulating and sealing materials.

Thursday, November 05, 1998	05, 1998		Trademark List					Page
Trademark Name		Division Attorney(s)	Case Number	A Status N	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL		MR	1045	Registered	37291	37291	01-Apr-2006	
Country: European Community	mmunity	Owner: UCAR Carbon Technology Corp.	hnology Corp.		01-Apr-1996	28-Jan-1998		
Designated Countries	Countries	Agent: GEVE Gevers & Partners	Partners					
AT	Registered	Classes: 117		Remarks:				
ВХ	Registered	Goods: Carbon and graphite in the form of flexible	ite in the form of flexibl	O				
DE	Registered	webs, cloths, indiv	webs, cloths, individual or laminated sheets,	ls,				
DK	Registered	strips, tapes, nooo filaments in Int. C	strips, tapes, motions, toam, strands and filaments in Int. Class 1. Gaskets, packing	14				
ES	Registered	rings, insulating a	rings, insulating and sealing materials in Int.	nt.				
FI	Registered	Class 17.						
FR	Registered							
GB	Registered							
GR	Registered							
Ħ	Registered							
II	Registered							
MC	Registered							
PT	Registered							
SE	Registered							

Thursday, November 05, 1998	Trademark List Page: 15
Trademark Name	Division Application Registration Renewal First Use  Attorney(s) Case Number Status Number/Filing Number/Date Date
GRAFOIL	Registered 7,816 06-Oct-2000
Country: Finland	06-Oct-1980
	Classes: 1 17  Remarks: Assignment recorded 12/31/89.  License recorded 12/14/89.
	Goods: Carbon and graphite in the form of flexible
	webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.
GRAFOIL	MR 1047 Registered 59,625 05-Sep-2007
Country: Greece	Owner: UCAR Carbon Technology Corp. 05-Sep-1997
	Agent: VAYA Vayanos Kostopoulos
	Classes: 17  Remarks: Assignment recorded 1/24/90.  Petition to record license filed.
	Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets,
	gaskets and packing rings.
GRAFOIL	MR 1050 Registered 6094/92 154738 18-Nov-1999
Country: Ireland, Republic of	Owner: UCAR Carbon Technology Corp. 18-Nov-1992 18-Nov-1992
	Agent: KELL F.R. Kelly & Co.
	Classes: 1 Remarks:
	Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts; graphite foam in class 1.

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indisuay, November 05, 1998	Trademark List	List				Page: 16
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing		Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR 1051	Registered 6095/92		154739	18-Nov-1999	
Country: Ireland, Republic of	Owner: UCAR Carbon Technology Corp.		1992	18-Nov-1992		
	Agent: KELL F.R. Kelly & Co.					
	Classes: 17	Remarks: Associated with GRAFOIL appln. No. 6094/92.	l with GRAF 92.	OIL appln.		
		Worldwide Gravograp	Worldwide consent with Societe Gravograph (GRAVOFOIL)	h Societe		
	Goods: gaskets and packing rings					
GRAFOIL	MR 1052	Registered		1664036	23-Feb-2004	
Country: Japan	Owner: UCAR Carbon Technology Corp.		2	23-Feb-1984		
	Agent: SUZU Suzuye & Suzuye					
	Classes: 34	Remarks: Original certificate lost (sent to Traub 3/84). Assignment reco	Original certificate lost (sent to Traub 3/84). Assignment recorded 11/5/90.	(sent to nt recorded		
	Goods: Individual or laminated sheets, strips, and foam and all made of carbon and graphite					÷
GRAFOIL	MR 1053	Registered 63714/88		2326663	30-Aug-2001	
Country: Japan	Owner: UCAR Carbon Technology Corp.	06-Jun-1988		1991	ı	
	Agent: SUZU Suzuye & Suzuye					

Classes: 16

Remarks: This replaces Reg. No. 1,247,556.
Lapsed due to failure by Balogh to

renew.

Goods: Flexible webs, knittings, felts, non-woven fabrics, tapes and ribbons, all made of carbon or

graphite, and all other goods in the class.

i hursday, November 05, 1998	Trademark List	List			Page: 17
Trademark Name	Division Attorney(s) Case Number	Application Status Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR 1056	Registered	201991	10-Jan-2002	
Country: Mexico	Owner: UCAR Carbon Technology Corp.		10-Jan-1992		
	Agent: BECE Becerrill, Coca & Becerril, S.				
	Classes: 35	Remarks: Assignment and license recorded 2/9/93.	cense recorded		
	Goods: Gaskets and packing rings.				
GRAFOIL	MR 1057	Registered	202353	10-Jan-2002	
Country: Mexico	Owner: UCAR Carbon Technology Corp.		10-Jan-1992		
	Agent: BECE Becerrill, Coca & Becerril, S.				
	Classes: 13	Remarks: Assignment and license recorded 2/3/93.	ense recorded		
	Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments	xible neets, nments			
GRAFOIL	MR 1058	Registered	120039	12-Jul-2012	-
Country: New Zealand	Owner: UCAR Carbon Technology Corp. Classes: 17	12-Jul-1984 Remarks: Assignment recorded 8/21/90.			
	Goods: Carbon and Graphite in the form of flexible	cihle			

gaskets and packing rings.

webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments,

Thursday, November 05, 1998		Trademark List	ist				Page: 18
Trademark Name	Division Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL	MR	1059	<u>e</u>		104052	17-Jan-2000	
Country: Norway	Owner: UCAR Carbon Technology Corp.	chnology Corp.			17-Jan-1990		
	Agent: BERG Bergen Patentkontor	atentkontor					
	Classes: 17		Remarks: A	Remarks: Assignment and license recorded 10/4/89.	inse recorded		
	Goods: Carbon and Graphite in the form of flexible	hite in the form of flex					
	webs, cloths, indi strips, tapes, ribbo	webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments	eets,				
GRAFOIL	Mm 10/1						
	MR	1061	Registered	95298	95298	17-Dec-2017	
Country: Philippines	Owner: UCAR Carbon Technology Corp.	chnology Corp.		19-Sep-1994	17-Dec-1997		
	Agent: SIGU Siguion R	Siguion Reyna, Montecillo & On	n				
	Classes: 9		Remarks: Ti	Remarks. This application replaces Reg. No.	laces Reg. No.		
	Goods: Granhita in the fa			-			
	coods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial art	Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts	oths, 1 1 arts.				
GRAFOIL	MR	1064	Registered	75/3634	75/3634	14-111-2005	
Country: South Africa	Owner: UCAR Carbon Technology Corp.	chnology Corp.		14-Jul-1975	14-Jul-1995		

Classes: 17

Remarks: Assignment recorded 9/7/90.

Agent: ADAM Adams & Adams

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual filaments; gaskets and packing rings.

Country: Taiwan	GRAFOII	Country: Taiwan	GRAFOII	Country: Sweden	Trademark Name GRAFOIL	Thursday, November 05, 1998
MR 1069 Pending 87013218  Owner: UCAR Carbon Technology Corp. 24-Mar-1998  Agent: LEE Lee and Li	Classes: 17  Remarks: [Replaces 87,440 - covered goods Goods: Gaskets and packing rings.	Owner: UCAR Carbon Technology Corp.  Agent: LEE Lee and Li  Pending 87013219  24-Mar-1998	Classes: 10  Remarks: Assignment recorded 2/23/90.  Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	Carbon Technology Corp.  Registered 165401 165401 10-Nov-2008  10-Nov-1978 10-Nov-1988	Division  Attorney(s)  Case Number  Status  Number/Filing  Number/Date  Date  Date  Page: 19  Application  Registration  Renewal First Use	Tradamark I to

Classes: 1

Goods: Graphite in the form of flexible webs, cloths,

Remarks: Replaces 87,440 (covered goods not

in use).

sheets, strips, tapes, ribbons, strands, and filaments for general use in industry.

Thursday, November 05, 1998		Trademark List	<b>+</b>				Page: 20
Trademark Name	Division Attorney(s)	Case Number	tatus	Application Number/Filing	Registration Number/Date	Renewal	First Use
GRAFOIL :	MR 1	1070	Registered	59627	99456	12-Sep-2007	
Country: Turkey	Owner: UCAR Carbon Technology Corp.	ology Corp.		12-Sep-1977	12-Sep-1997	,	
	Agent: DERIS Deris Patents and Trademark Ag	and Trademark Ag			,		
		72	emarks:	Assignment recorded 1990.	1990.		
	Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets,	in the form of flexible al or laminated sheets	•				
	strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.	foam, strands, filame, ings.	nts,				
GRAFOIL	MR 1	1071 F	Registered	938730	938730	25-Feb-2004	
Country: United Kingdom	Owner: UCAR Carbon Technology Corp.	ology Corp.		25-Feb-1969	25-Feb-1990		
	Agent: GRAN Grant, Spencer, Caisley & Port	er, Caisley & Port					
	Classes: 17		emarks: Co	Remarks: Consent obtained from Courtaulds	n Courtaulds		
			As:	Ltd. 1/20/71. Assignment recorded 4/22/91.	4/22/91.		
	Goods: Carbon and graphite, all being foil or laminates of foil and in the form of sheets, strip, tapes and	all being foil or lamin of sheets, strip, tapes					
	packing rings, all made from the aforesaid materials.	manufactures, gaskets le from the aforesaid	and				
GRAFOIL	MR 10		Registered		758239	15-Oct-2003	
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 1		emarks: Hig mer 3/2	15-Oct-1983 Remarks: High Temperature Materials, Inc. merged with UCC 3/1/66, recorded 3/29/66, Reel 136 Frame 526.	15-Oct-1983 sterials, Inc. /66, recorded me 526.		
	Chada: Caralita in the first in			,	,	!	

Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.

Thursday, November 05, 1998		Trademark List				Page: 21
Trademark Name	Division Attorney(s) C	Case Number Status	Application Number/Filing	Registration Number/Date	Renewal   Date	First Use Date
GRAFOIL	MR 10		red	850235 0	-2008	
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 17	logy Corp. Remarks:		04-Jun-1988		
	Goods: Gaskets and packing rings	ings.		(	·	
GRAFOIL	MR 12	1204 Pending	Ora			And the second s
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 1		21-Oct-1998 s: New application filed after 1196891 cancelled.	l after 1196891		
	Goods: Graphite paste for use as a pipe thread sealant or thread lubricant; injectable graphite particle packing for use in packing stuffing boxes on valves, pums or sliding joints.	Graphite paste for use as a pipe thread sealant or thread lubricant; injectable graphite particle packing for use in packing stuffing boxes on valves, pums or sliding joints.				
GRAFOIL	MR 10	1076 Registered	red 84627	84627 2	22-Jul-2007	
Country: Venezuela	Owner: UCAR Carbon Technology Corp.  Agent: VALL Vallina Grisanti & Asociados	logy Corp. ıti & Asociados	22-Jul-1977	22-Jul-1992		
	Classes: 1	Remarks:	s: Assignment recorded 1/3/94. Oppositions filed against GRAFOIL applications filed by Juan	1/3/94. inst GRAFOIL Juan		

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets,

Fernandez Martinez; pending as of 10/98.

strips, tapes, ribbons, foam, strands, filaments.

	Country: United States of America			GRAFOII IN KATAKANA G		GRAFOII AND FOREAS		Trademark Name GRAFOIL AND CHINESE	Thursday, November 05, 1998
Cwner: UCAR Carbon Technology Corp.  Classes: 1  Goods: plates, cylinders and other materials for use as industrial heat shields, baffles or seals.	MR 1201	Classes: 34  Rema Goods: Individual or laminated sheets, strips and foam, all made of carbon or graphite, and all other goods in the class.	MR 1080 Owner: UCAR Carbon Technology Corp. Agent: SUZU Suzuye & Suzuye	Classes: 16  Goods: Natural graphite and graphite.	MR 1079 Owner: UCAR Carbon Technology Corp. Agent: KIM Kim, Shin & Yu	Classes: 92  Goods: Gaskets and packing rings.	MR 1077  Owner: UCAR Carbon Technology Corp.  Agent: LEE Lee and Li	Attorney(s) Case Number	Trademark List
Remarks: 13-Jul-1998 use as	Pending 75/517642	Remarks: Assignment recorded 11/5/90, d foam, ther	Registered 1756787 1 25-Mar-1995 2	Remarks: Assignment recorded 4/17/90. License and address change recorded 6/15/93.	Registered	Remarks: Assignment recorded 11/15/89. License recorded 4/10/90.	Registered	Application Status Number/Filing	List
(10)		1/5/90.	1756787 25-Mar-2005 25-Mar-1995	\$/17/90. \ange	68805 24-Apr-2000 24-Apr-1990	11/15/89. /90.	124151 16-Nov-1999 16-Nov-1989	Registration Renewal First Use Number/Date Date Date	Page: 22

Thursday, November 05, 1998	Trademark List	ist	Application	Registration	Renewal	Page: 23
Trademark Name	Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Date
GRAPHI-TOOL	MR 1084	Registered		154737	_	i l
Country: Ireland, Republic of	Owner: UCAR Carbon Technology Corp.	1		18-Nov-1992		
	Agent: KELL F.R. Kelly & Co.					
	Classes: 7	Remarks:				
	•	INCINGING.				
	Goods: Graphite tooling systems used in tooling carbon	carbon				
	and/or graphite composites for use in the defense, satellite and aerospace industries	e. es.				
GRAPHI-TOOL	MR 1085	Registered	81063363	614602	30-Sep-2003	
Country: Taiwan	Owner: UCAR Carbon Technology Corp.		23-Dec-1992	10-Oct-1993		
	Agent: LEE Lee and Li					
	Classes: 84	Remarks:				
	Goods: Graphite tooling machines.					
GRAPHI-TOOL	MR 1086	Registered		1518774	13-Nov-1999	
Country: United Kingdom	Owner: UCAR Carbon Technology Corp.			13-Nov-1992		
	Agent: GRAN Grant, Spencer, Caisley & Port					
	Classes: 7	Remarks:				
	Goods: Machine tools, parts and fitting for all the aforesaid goods, all included in Class 7.	ē				
GRAPHI-TOOL	MR 1087	Registered	073356	1702837	28-Jul-2002	
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 7	Remarks: S	27-Jun-1990 28-Jul-1992 Section 8 & 15 accented 3/23/98	28-Jul-1992 nted 3/73/98		
	Goods: Graphite tooling systems used in tooling carbon and/or graphite composites for use in the				9	
	defense, satellite and aerospace industries	S.		(		

States of America	RIBBON-PACK	FYROFOAM  Country: Canada		GTS  Country: United States of America		Country: United States of America	Trademark Name	Thursday, November 05, 1998
Owner: UCAR Carbon Technology Corp.  Classes: 17  Re  Goods: Flexible graphite packing materials used for fluid sealing in pumps, valves and related	n and graphite	MR 1091 Owner: UCAR Carbon Technology Corp. Agent: SIM Sim & McBurney	Classes: 1 Rer Goods: Graphite paste used as pipe thread sealant, in Class 1.	MR 1089 Owner: UCAR Carbon Technology Corp. Agent: ACFT Assistant Commissioner for Tra	Goods: Flexible graphite packing material used for fluid sealing in pumps and valves in the valve and pump packing industry.	MR 1088 Owner: UCAR Carbon Technology Corp. Classes: 17	Attorney(s) Case Number	Trademark List
Registered 723722 1541522  21-Apr-1988 30-May-1989  Remarks: Sections 8 & 15 accepted 3/25/96.  or	Remarks: Par and Il arts.	Registered	Remarks: Sections 8 & 15 accepted 12/4/95. t, in	Registered 784266 03-Mar-1989		Registered 723111 1546426 18-Apr-1988 04-Jul-1989 Remarks: Sections 8&15 accepted 12/11/95.	Application Status Number/Filing	ist
		177988 27 27-Aug-1986	pted 12/4/95.	1569027 05 05-Dec-1989			Registration Number/Date	
30-May-2009		27-Aug-2001		05-Dec-1999 07-Apr-1988		04-Jul-2009 09-Sep-1987	Renewal First Usc Date Date	Page: 24

Thursday, November 05, 1998	Trademark List	ist				Page: 25
Trademark Name	Division Attorney(s) Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
SMART RAM	MR 1094	Registered	74/170580	1727628	27-Oct-2002	27-Oct-2002 18-Apr-1991
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 19	Remarks: S	28-May-1991 27-Oct-19 Sections 8 & 15 accepted 3/3/98.	27-Oct-1992 pted 3/3/98.	1	
	Goods: Refractory ramming mixes, in class 19.			•		
SOUKE I MAKKING FOR ELECTRODES	)ES MR 1095	Registered		418218	11-Dec-2005	
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 19	Remarks:		11-Dec-1985		
	Goods: Carbon electrodes and graphite electrodes.	es.			The Company	
SUPERGIO	MR 1096	Pending	75/309150			
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 17	Remarks:	16-Jun-1997		٠ ټ	
	Goods: Flexible graphite sheets for use in internal combustion engines and automotive heat shielding applications in Int. Class 1.	1 2			 *****	

Wednesday, November 04, 1990	Langeral	TATASTEL TIST BY DIVISION	Page:
Division CAER Carbon Electrode Related	ode Related		
Case			
017054 FJM	FILED	SELF CENTERING ELECTRODE JOINT	COLEMAN, PD
			FULGENZI, CF
UCAR Carbon Technology Corp	logy Corp		KLOTZ, JA
			STEWART, JR

ountry	Sub Country Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
AR	Granted	ORD 326661	24-Nov-1993 251086	251086	16-Sep-1997		24-Nov-2013		
ΑŪ	GRANTED	ORD 51932/93	24-Nov-1993	663839	19-Oct-1995		24-Nov-2013		
во	PENDING	ORD B-000196	25-Nov-1993						
BR	PENDING	ORD P19304811-4	24-Nov-1993				24-Nov-2008		
CA	GRANTED	ORD 2109909	24-Nov-1993	2109909	30-Jul-1996		24-Nov-2013		
CN	PENDING	ORD 93120594.8	24-Nov-1993			PA	24-Nov-2013		
DE	GRANTED	EPC 69314749.0-0 19-Nov-1993	19-Nov-1993	599211	22-Oct-1997		19-Nov-2013		
DO	PENDING	ORD	08-Sep-1993						
EP	GRANTED	ORD 93118639.9	19-Nov-1993	599211	22-Oct-1997		19-Nov-2013		
ES	GRANTED	EPC 93118639.9	19-Nov-1993	ES2108190T3 22-Oct-1997	22-Oct-1997		19-Nov-2013		
FR	GRANTED	EPC 93118639.9	19-Nov-1993	599211	22-Oct-1997		19-Nov-2013		
Z	PENDING	ORD 1320/DEL/93	24-Nov-1993				24-Nov-2007		
TT	GRANTED	EPC 93118639.9	19-Nov-1993	27669/BE/97	01-Oct-1997		19-Nov-2013		
O	PENDING	ORD 93/4255	24-Nov-1993				24-Nov-2013		
PL	GRANTED	ORD P301186	24-Nov-1993	172238	08-Jan-1997		24-Nov-2013		
RU	PENDING	ORD 93052366.0	24-Nov-1993				24-Nov-2013		

UCAR BUSINESS CONFIDENTIAL

Sub Case Application Figure Country Case Status Type Number D  US -1 PENDING CON 08/919,689 28-	Electrode Related  Technology Corp	Wednesday, November 04, 1998
Filing Patent Issue Tax Expiration Agent Agent Ref # Date Number Date Schedule Date Agent Agent Ref #	Sure Status  Open OXIDATION INHIBITION OF CARBON ELECTRODES Chiu, CC Greinke, RA Klotz, JA	Master List By Division

Wednesday, November 04, 1998	vember 04, 1	998	Master l	Master List By Division	ion				Page: 4	
Division CASP	į	Carbon Specialty								
Case Number	A	Attorney	Disclosure Status	Title				Inventors		
009426	Ţ.	FJM	FILED	CEMENTED FOR ALUMI	CEMENTED COLLECTOR BAR ASSEMBLIES MILNER, RG FOR ALUMINUM CELL CARBON BOTTOM VADLA. JJ	BAR ASS	EMBLIES OTTOM	MILNER, R VADLA, JJ	RG	
	UCAR Carb	UCAR Carbon Technology Corp	dre	BLOCK				,		
Sub	)	Case Application		Patent	Issue	Tax	Expiration	•	A good Dof #	
Country Case Status	Status	Type Number		Number	Date	Schedule Date	Date	Agent	Agent Agent Ref#	11
CA	GRANTED	ORD		1046456	16-Jan-1979	OT.	16-Jan-1996			

Wednesday, November 04, 1998	nber 04, 19	98	Master	Master List By Division	sion				Page: 5
Division CASP		Carbon Specialty						:	
Case Number	Att	Attorney	Disclosure Status	Title				Inventors	
016513	FJM	V	FILED	CONDUCT CARBONA	CONDUCTIVE EXPANDABLE CARBONACEOUS PASTE MATERIAL	BLE MATERI		CLARK, WR KING, HL	R
Ų	CAR Carbo	UCAR Carbon Technology Corp	J					WILLEY, HE	Œ
Sub		Case Application	on Filing	Patent	Issue	Tax	Expiration		
Country Case Status	itus	Type Number		Number	Date	Schedule Date	Date	Agent /	Agent Ref #
DE GR	GRANTED	EPC 92102709.0	.0 19-Feb-1992	0500061	26-Oct-1994		19-Feb-2012		
EP GR	GRANTED	ORD 92102709.0	.0 19-Feb-1992	0500061	26-Oct-1994		19-Feb-2012		
FR GR	GRANTED	EPC 92102709.0	.0 19-Fcb-1992	0500061	26-Oct-1994		19-Feb-2012		
GB GR	GRANTED	EPC 92102709.0	.0 19-Fcb-1992	0500061	26-Oct-1994		19-Feb-2012		
IT GR	GRANTED	EPC 92102709.0	.0 19-Feb-1992	0500061	26-Oct-1994	ΕP	19-Feb-2012		
SE GR	GRANTED	EPC 92102709.0	.0 19-Feb-1992	0500061	26-Oct-1994	EP	19-Feb-2012		
US GR	GRANTED	ORD 658700	21-Feb-1991	5167868	01-Dec-1992	Œ	01-Dec-2009		

Wednes	day, N	Wednesday, November 04, 1998	1998	Master	Master List By Division	sion			regions a soon a constitution and	Page: 6
Di	vision	Division CASP Ca	Carbon Specialty							
Case Number			Attorney	Disclosure Status	Title				Inventors	
016901			FIM	FILED	ROOM TEN	ROOM TEMPERATURE SETTING CARBONACEOUS CEMENT WITH	TING THE	<b>L</b>	BRETZ, RI GREINKE, RA	RA
		UCAR Carl	UCAR Carbon Technology Corp		ÍNCREASE AND FLEX	INCREASED ELECTRICAL CONDUCTIVITY AND FLEXURAL STRENGTH	L COND		KAMPE, DJ LEWIS, IC PIRRO, TA	
Sub Country Case Status	Sub Case	Status	Case Application Type Number	1 Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration e Date	Agent /	Agent Agent Ref#
DE		GRANTED	ORD P4312571.9	17-Apr-1993	4312571.9	30-Dec-1997		17-Apr-2013		
DE		GRANTED	DIV P4345359.7	22-Dec-1995	4345359.7	23-Dec-1997		22-Dec-2015		
JP		PENDING	ORD 087247/93	14-Apr-1993						
US		GRANTED	ORD 870314	17-Apr-1992	5280063	18-Jan-1994	Œ	18-Jan-2011		
SU	-2	GRANTED	CIP 135153	12-Oct-1993	5373051	13-Dec-1994	LE	13-Dec-2011	·	
US	చ	GRANTED	CON 409896	23-Mar-1995 5550176	5550176	27-Aug-1996	LE			

030018 FJM Open TOOL AND N UCAR Carbon Technology Corp	Wednesday, November 04, 1998  Master List By  Division CMP UCAR Composites
TOOL HOLDER BALANCING ASSEMBLY HARPER, RTAND METHOD	Master List By Division
RT	Page: 7

Wednesday, November 04, 1998	1998	Master	Master List By Division	vision			Page: 8
Division CSV C	Carbone Savoie						
Case Number	Attorney	Disclosure Status	Title				Inventors
BR2068	FJM	Filed	CARBON AMBIENT	CARBONACEOUS LUTING PASTE AND AMBIENT TEMPERATURE LUTING PROCESS	PASTE LUTIN(		DUMAS, D LACROIX, S
Carbone Savoie	avoie		(US)				LATARD, JM MONTILLOT, AM
							VALLUIN, J
Sub	Case Application		Patent		Tax Expi	Expiration	
Country Case Status	Type inumber	Date	TAMINOCI	Parc	Semediano	Dair	ragent ragent area ii
CA GRANTED	ORD 325926	19-Apr-1979	1135457	16-Nov-1982		16-Nov-1999	
DE GRANTED	EPC 2964780.1	18-Apr-1979	0005410	16-Feb-1983		18-Apr-1999	
FR GRANTED	ORD 7812447	20-Apr-1978	2423467	29-Jun-1981		20-Apr-1998	
GB GRANTED	EPC 79420019.6	6 18-Apr-1979	0005410	16-Feb-1983		18-Apr-1999	
IT GRANTED	ORD 21938A/79	18-Apr-1979	1113325	20-Jan-1986		18-Apr-1999	
JP GRANTED	ORD 48501/79	19-Apr-1979	1316474	15-May-1986		19-Apr-1999	
NO GRANTED	ORD 791299	19-Apr-1979	149500	04-Jun-1985		19-Apr-1999	
US GRANTED	ORD 31952	20-Apr-1979 4192730	4192730	11-Mar-1980	N,	20-Apr-1999	

Wednesday, November 04, 1998	ember 04, 19	98		Master ]	Master List By Division	sion				Page: 9
Division CSV		Carbone Savoie	(P							
Case Number	Ati	Attorney	Disc	Disclosure Status	Title		:		Inventors	
BR2068/A1	FJM	<b>S</b>		Filed	CARBONA	CARBONACEOUS PASTE FOR COLD	FOR CO		DUMAS, D	)
					SHAPING				LACROIX, S	, N
	Carbone Savoie	)ie							LATARD, JM	JM
									MONTILLOT, AM	OT, AM
									VALLON, J	J
S <sub>m</sub>		Case A	Case Application	Filing	Patent	Issue	Tax	Expiration		
Country Case Status	tatus	Type Number	umber	Date	Number	Date	Schedule Date	Date	Agent	Agent Agent Ref#
FR G	GRANTED	ORD 7904769	04769	19-Feb-1979 2453839	2453839	28-Aug-1981		20-Apr-1998		

Wednesday, November 04, 1998	ovember 04, 19	998		Master I	Master List By Division	ion				Page: 10
Division CSV		Carbone Savoie								
Case Number	A	Attorney	Disclos	Disclosure Status	Title				Inventors	
BR2144	Ę	FJM		Filed	ELECTRIC CALCINAT	ELECTRIC FURNACE FOR THE CALCINATION OF CARBONACEOUS	THE NACEOU		AUBRY, M BERNARD, JC	JC
	Carbone Savoie	oie			MATERIALS (US)	S (US)			GEORJON, P LATARD, JM	M P
									PHILIPON, P	P
Sub		Case Application		Filing	Patent	Issue	Tax	Expiration	-	
Country Case Status	Status	Type Number		Date	Number	Date	Schedule Date	Date	Agent A	Agent Ket#
CA	GRANTED	ORD 329386	•	08-Jun-1979	1148494	21-Jun-1983		21-Jun-2000		
DE	GRANTED	ORD 2953691.2		08-Jun-1979	2953691	03-Jan-1985		08-Jun-1999		
ES	GRANTED	ORD 481644/7			481644/7	16-Feb-1980		16-Feb-2000		
FR	GRANTED	ORD 7736454		25-Nov-1977	2410235	12-Mar-1982		25-Nov-1997		
GB	GRANTED	ORD 7900049		08-Jun-1979	2063030	15-Jun-1983		08-Jun-1999		
NO	GRANTED	ORD 791859		05-Jun-1979	154702	03-Dec-1986		05-Jun-1999		
SU	GRANTED	ORD 227052		08-Feb-1981	4357210	02-Nov-1982	H	02-Nov-1999		
ZA	GRANTED	ORD 79/2745		04-Jun-1979	79/2745	25-Jun-1980		04-Jun-1999		

Wednesday, N	Wednesday, November 04, 1998	998	Master	Master List By Division	sion		Page: 11
Division CSV		Carbone Savoie					
Case Number	<b>&gt;</b>	Attorney	Disclosure Status	Title			Inventors
BR2155	<b>'</b> Aj	FJM	Filed	SYNTHETI	SYNTHETIC CARBONACEO	EOUS GRANULES	
	Control	<b>.</b>		HAVING H CHARACTI	HAVING HIGH MECHANICAL CHARACTERISTICS (US)	ICAL	DUMAS, D GEORJON, P
	Calbolic payor	VOIC					LACROIX, P
							LATARD, JM
Sub	•	Case Application	on Filing	Patent	Issue	Tax Expiration	tion Agent Agent Ref#
CA	GRANTED	ORD 359388	28-Aug-1980 1154211	1154211	27-Sep-1983	27-Sep-2000	-2000
FR	GRANTED	ORD 7922253	29-Aug-1979	2464294	09-May-1983		3-1999
Jp	GRANTED	ORD 116903/80	0 25-Aug-1980	1240938	26-Nov-1984		<sub>3</sub> 2000
NO	GRANTED	ORD 802516	25-Aug-1980	152013	17-Jul-1985	25-Aug-2000	<sub>3</sub> -2000
US -1	Granted	CON 551568	14-Nov-1983	4483840	20-Nov-1984	H	7-2003
ZA	GRANTED	ORD 80/5353	28-Aug-1980 80/5353	80/5353	28-Apr-1982	28-Aug-2000	g-2000

Wednesday, November 04, 1998	vember 04, 19	98	Master	Master List By Division	ision				Page: 12
Division CSV		Carbone Savoic							
Case Number	At	Attorney	Disclosure Status	Title				Inventors	
BR2366	FJM	X	Filed	REFRACT	REFRACTORY PRODUCTS FORMED BY	FORMEI	S	DUMAS, D	
	Carbone Savoie	)ie		AND METAL S AND PROCESS	AND METAL SILICON IN POWDER FORM AND PROCESS	POWDER		MESNILDOT, DB MICHEL, C MONTILLOT, AM	7 %
Sub		Case Application		Patent		Tax	Expiration		
Country Case	Case Status	Type Number	Date	Number	Date	Schedule Date	Date	Agent Agent Ref#	Ref#
AU	GRANTED	ORD 22651/83	06-Dec-1983	578594	03-Apr-1989		06-Dec-2003		
CA	GRANTED	ORD 442745	07-Dec-1983	1209593	12-Aug-1986		12-Aug-2003		
DE	GRANTED	EPC 3373893.9	06-Dec-1983	0128165	30-Sep-1987		06-Dec-2003		
FR =1	GRANTED	EPC 83903801.5	5 06-Dec-1983	0128165	30-Sep-1987		06-Dec-2003		
GB	GRANTED	EPC 83903801.5	.5 06-Dec-1983	0128165	30-Sep-1987		06-Dec-2003		
Z	GRANTED	ORD 1430/CAL/83	/83 21-Nov-1983	161625	02-Dec-1988		21-Nov-1997		
IZ -1	GRANTED	ORD 712/CAL/86	86 21-Nov-1983	166330	14-Dec-1990		21-Nov-1997		
II	GRANTED	ORD 24046A/83	3 06-Dec-1983	1167300	13-May-1987		06-Dec-2003		
US	GRANTED	ORD 629547	06-Dec-1983	4544641	01-Oct-1985	Œ	06-Dec-2003		

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Wednesday, November 04, 1998	mber 04, 19	98	Master	Master List By Division	sion .			Page: 13	13
Division CSV		Carbone Savoie							
Case									
Number	Atı	Attorney	Disclosure Status	Title				Inventors	
BR2648	FJM	M	Filed	PROCESS A	PROCESS AND APPARATUS FOR SEALING	JS FOR S	EALING	AUDRAS, G	
C	Carbone Savoie	ē.		CATHODIC BARS	CATHODIC BARS IN A PRE CONDITION (US)	ESTRESSED	_	I.ATARD, JM MICHARD, L	
								MONTILLOT, AM	
Sub		Case Application	on Filing	Patent	Issue	Tax	Expiration		
Country Case Status	atus	Type Number	Date	Number	Date S	Schedule Date	Date	Agent Agent Ref#	
AU GR	GRANTED	ORD 80910/87	09-Nov-1987	589876	08-Mar-1990		09-Nov-2007		
BR GR	GRANTED	ORD 8706015	09-Nov-1987	8706015-9	25-Apr-1995		09-Nov-2002		
CH GR	GRANTED	ORD 4349/87-6	06-Nov-1987	674212-9	15=May=1990		06-Nov-2007		
CN GR	GRANTED	ORD 87107682	09-Nov-1987	12352	12-Apr-1991		09-Nov-2002		
FR GR	GRANTED	ORD 8615803	10-Nov-1986	2606428	23-Jan-1989		10-Nov-2006		
IS GR	GRANTED	ORD 3281	09-Nov-1987	1401	15-Dec-1989		09-Nov-2007		
NO GR	GRANTED	ORD 874658	09-Nov-1987	176768	11-May-1988		09-Nov-2007		
US GR	GRANTED	ORD 111192	22-Oct-1987	4773980	27-Sep-1988	H	22-Oct-2007		
VE GR	GRANTED	ORD 1784/87	06-Nov-1987	50548	12-Nov-1993		06-Nov-2002		

Wednesday, N	Wednesday, November 04, 1998	998	Master l	Master List By Division	0 <b>n</b>				Page: 14
Division CSV		Carbone Savoie	i						
Case Number	A	Attorney D	Disclosure Status	Title				Inventors	
BR2649	P	FJM	Filed	PROTECTIV BARS OF PR	PROTECTIVE COATING FOR THE CARRIER BARS OF PREBAKED ANODES AND THE	OR THE (	界	AUDRAS, G	G G
	Carbone Savoie	oie		EMERGING	EMERGING PART OF SAID	O ANODES (US)		MIGNOT, F	ה ה ה
<u>E</u>		Case Application	Filing	Patent	Issue	Tax	Expiration		
Country Case Status	Status	Type Number	Date	Number	-	Schedule Date	Date	Agent	Agent Ref #
ĄĒ	GRANTED	ORD VOL17NO208 26-Jun-1988	•	NO32	05-Sep-1991		14-Nov-2006		
AU	GRANTED	ORD 81194/87		590185	22-Feb-1990		13-Nov-2007		
CA	GRANTED	ORD 551398	09-Nov-1987	1284783	11-Jun-1991		11-Jun-2008		
ΕP	FILED	ORD	12-Nov-1987				12-Nov-2007		
FR -l	GRANTED	EPC 87420308.6	12-Nov-1987	0269534	24-Jun-1992		12-Nov-2007		
NZ	GRANTED	ORD 222473	06-Nov-1987	222473	30-May-1991		06-Nov-2007		
SU	GRANTED	ORD 118023	06-Nov-1987 4787965	4787965	29-Nov-1988	H	06-Nov-2007		

Wednesday, November 04, 1998	, 1998	Master	Master List By Division	sion				Page: 15
Division CSV (	Carbone Savoie							
Case Number	Attorney	Disclosure Status	Title				Inventors	
BR2649/A1	FJM	Filed	PROTECTI BARS OF F	PROTECTIVE COATINGS FOR THE CARRIER BARS OF PRE-BAKED ANODES AND THE	OR THE	CARRIER D THE	AUDRAS, G LATARD, JM	M. G
Carbone Savoie	Savoie		EMERGIN	EMERGING PART OF THE ANODES (US)	ANODES	(US)	MIGNOT, F SAMANOS, B	, В
Sub	Case Application	on Filing	Patent	Issue	Tax	Expiration		
Country Case Status	ORD VOLISM	ORD VOI 18NO231 20-Jul-1989	Manner	Parc	14-N	14-Nov-2006	) (Agent	Agent agen
AU GRANTED	ORD 27429/88	21-Dec-1988	610964	25-Sep-1991		21-Dec-2008		
CA FILED	ORD 586322	19-Dec-1988				19-Dec-2008	34	
EP FILED	ORD 88420430	) 21-Dec-1988	322326	12-Aug-1992		21-Dec-2008	-	
FR GRANTED	D ORD 8718452	22-Dec-1987	2624886	03-Jan-1992		14-Nov-2006	Ο.	
FR -1 GRANTED	D EPC 88420430.6	).6 21-Dec-1988	0322326	12-Aug-1992		21-Dec-2008	•	
NZ GRANTED	D ORD 227342	15-Dec-1988	227342	24-Apr-1992		06-Nov-2007	7	
US -1 GRANTED	D ORD 07/426200	0 25-Oct-1989	4946502	07-Aug-1990	LE	25-Oct-2009		

Wednesday, 1	Wednesday, November 04, 1998	1998	Master	Master List By Division	ision			Page: 16
Division CSV		Carbone Savoie				and the second second		
Case Number	A	Attorney	Disclosure Status	Title				Inventors
BR3042	יבו	FJM	Filed	COATING	COATING TO PROTECT MATERIAL FROM REACTION WITH AIR AT HIGH	WATERIA HIGH	L FROM	FARGE, Y
	Carbone Savoie	/oie		TEMPERATURE	TURE	HIGH		FIGUERES, R MIGNOT, F
								MOREL, B
C.		Case Application	Riiina	Datant	Tonio	3		
Country Case	Status	Type Number	Date	Number	Date	Schedule Date	Date	Agent Agent Ref#
AU	GRANTED	ORD 54738/94	28-Jan-1994	666061	14-May-1996		28-Jan-2014	
BR	GRANTED	ORD 9400344/0	26-Jan-1994	9400344	16-Aug-1994		26-Jan-2009	
CA	GRANTED	ORD 2114071	24-Jan-1994	2114071	29-Jul-1994		24-Jan-2014	
DE	GRANTED	EPC 69400098.1	1 25-Jan-1994	0609160	20-Mar-1996		25-Jan-2014	
EP	GRANTED	ORD 94420021	25-Jan-1994	609160	20-Mar-1996		25-Jan-2014	
FR	GRANTED	ORD 9301258	28-Jan-1993	2700773	03-Mar-1995		28-Jan-2013	
FR -1	GRANTED	EPC 94420021.1	1 25-Jan-1994	0609160	20-Mar-1996		25-Jan-2014	
GB	GRANTED	EPC 94420021.1	1 25-Jan-1994	0609160	20-Mar-1996		25-Jan-2014	
IT	GRANTED	EPC 94420021.1	1 25-Jan-1994	0609160	20-Mar-1996		25-Jan-2014	
JP	GRANTED	ORD 8798/94	28-Jan-1994	6287468	11-Oct-1994		28-Jan-2014	
US	GRANTED	ORD 08/181037	14-Jan-1994	5420084	30-May-1995	H	14-Jan-2004	
ZA	GRANTED	ORD 94/0505	25-Jan-1994	94/0505	30-Nov-1994		25-Jan-2014	

Wednesday, N	Wednesday, November 04, 1998	98	Master 1	Master List By Division	ion			Page: 17
Division	Division FLXGR Flex	Flexible Graphite Related	Δ.					
Case Number	At	Attorney	Disclosure Status	Title			Inventors	
012025	FJM	M	FILED	INJECTABI CONTAINII	INJECTABLE PACKING FORMULATION CONTAINING FLEXIBLE GRAPHITE	ORMULATION GRAPHITE	COX, CV	
	UCAR Carbo	UCAR Carbon Technology Corp						
	Keyword(s):							
	GRAFOIL							
Sub Country Case Status	e Status	Case Application Type Number	n Filing Date	Patent Number	Issue Date	Tax Expiration Schedule Date	Agent	Agent Agent Ref#
CA	GRANTED	ORD		1117516	02-Feb-1982	02-Feb-1999	9	
ΪÞ	PENDING	ORD 009271/79	31-Jan-1979					
US	GRANTED	ORD		4162078	24-Jul-1979	24-Jul-1996		

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Division FLXGR Fle	Flexible Graphite Related	环.						
Case Number	Attorney	Disclosure Status	Title				Inventors	
012083 F	FJM	FILED	PACKING R GRAPHITE	PACKING RING CONTAINING FLEXIBLE GRAPHITE	VING FLEXIE		SCHNITZLER, DL	R, DL
UCAR Cart	UCAR Carbon Technology Corp							
Keyword(s):	**							
GRAFOIL								
Sub Country Case Status	Case Application Type Number	n Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent A	Agent Agent Ref#
CA GRANTED	ORD		1129904	17-Aug-1982		17-Aug-1999	:	
US GRANTED	ORD		4190257	26-Feb-1980	26	26-Feb-1997		

Wednesday,	Wednesday, November 04, 1998	98	Master	Master List By Division	ision				Page: 19
Divisio	Division FLXGR Flex	Flexible Graphite Related	ed				And the state of t		
Case Number	At	Attorney	Disclosure Status	Title			П	Inventors	
015410	FJM	M	FILED	INTERCA	INTERCALATION OF GRAPHITE	APHITE	I	BECK, EJ	D A
	UCAR Carbo	UCAR Carbon Technology Corp					~ ~	GREINKE, RA MERCURI, RA	, RA
	Keyword(s):								
	GRAFOIL								
)		· ·	1	<b>,</b>					
Country Cas	Case Status			Number	Date	Schedule Date	Date	Agent	Agent Ref#
CH	GRANTED	EPC 88114165.9	9 31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
DE	GRANTED	EPC 88114165.9	9 31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
EP	GRANTED	ORD 88114165.9	9 31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
EP -I	OPPOSITION	ORD 88114165.9	9 31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
FR	GRANTED	EPC 88114165.9	9 31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
GB	GRANTED	EPC 88114165.9	9 31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
II	GRANTED	EPC 88114165.9	9 31-Aug-1988	0305984	05-Jan-1994	甲	31-Aug-2008		
JP	GRANTED	ORD 218207/88	31-Aug-1988	2543583	20-May-1996				
US -1	GRANTED	CON 323214	16-Mar-1989	4895713	23-Jan-1990	LΕ	23-Jan-2007		

Wednesday, November 04, 1998	nber 04, 199	8	Master	Master List By Division	sion				Page: 20
Division FLXGR	1	Flexible Graphite Related	ted						
Case Number	Att	Attorney	Disclosure Status	Title				Inventors	
015676	FJM		FILED	COMPOSIT PARTICLE	COMPOSITES OF FLEXIBLE OF FLEX	LE GRAPHITE HOUS CARBO	Z	HOWARD, RA	
UC	CAR Carbon	UCAR Carbon Technology Corp	Ð						
ζ.	Keyword(s):								
GI	GRAFOIL								
Sub Country Case Status		Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#	#
CA GR	GRANTED	ORD	***************************************	1322633	05-Oct-1993	J2	05-Oct-2010		
DE GR/	GRANTED	EPC 89101969.7	.7 04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
EP GR/	GRANTED	ORD 89101969.7	.7 04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
FR GR	GRANTED	EPC 89101969.7	.7 04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
GB GR	GRANTED	EPC 89101969.7	.7 04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
IT GR	GRANTED	EPC 89101969.7	.7 04-Feb-1989	0328008	02-Jun-1993	ΕP	04-Feb-2009		
JP GR	GRANTED	ORD 029581/89	08-Feb-1989	2077617	09-Aug-1996				

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06-Jul-1993

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06-Jul-2010

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ORD 154034

09-Feb-1988

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02-May-1989

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02-May-2006

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Division	Division FLXGR Flex	Flexible Graphite Related	d						
Case Number	Aí	Attorney	Disclosure Status	Title				Inventors	
015701	FJM	M	FILED	FLEXIBLE AMORPHO	FLEXIBLE GRAPHITE ARTICLES WITH AN AMORPHOUS CARBON PHASE AT THE	TICLES W	THE	GREINKE, RA	RA RA
	UCAR Carbo	UCAR Carbon Technology Corp		SURFACE					
	Keyword(s):								
	GRAFOIL								
a <del>F</del>		Cose Application	ਦ ਹੋੜ ਹੈ		Togeth		<del>.</del>		
Country Case	Case Status			Number	Date	Schedule Date	Date	Agent 1	Agent Ref#
CA	PENDING	ORD 594331	21-Mar-1989						
DE	GRANTED	EPC 89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	9	
ΕP	GRANTED	ORD 89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	9	
FR	GRANTED	EPC 89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	9	
GB	GRANTED	EPC 89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	9	
II	GRANTED	EPC 89302769.8	21-Mar-1989	0334589	20-Oct-1993	甲	21-Mar-2009	9	
Ħ	GRANTED	ORD 069120/89	20-Mar-1989	1880153	21-Oct-1994		20-Mar-2009	9	
US -1	GRANTED	CON 590582	28-Sep-1990	5228701	20-Jul-1993	H	20-Jul-2010		

Sub Case Application Filing Patent Issue Tax Expiration Country Case Status Type Number Date Number Date Schedule Date Ag		Keyword(s): GRAFOIL	UCAR Carbon Technology Corp	FILED COMPOSITE COMPRISING NEARLY CHU PARALLEL EXFOLIATED GRAPHITE WORMS	Case Number Attorney Disclosure Status Title Inven	Division FLXGR Flexible Graphite Related	Wednesday, November 04, 1998 Master List By Division	
	ration			Y CHUNG, DDL TE WORMS	Inventors			
	Agent Agent Ref#			G, DDL	)TS		Page: 22	

Wednesday, November 04, 1998	, 1998	Master	Master List By Division	sion				Page: 23
Division FLXGR F	Flexible Graphite Related	<b>25.</b>						
Case Number	Attorney	Disclosure Status	Title				Inventors	
015798	FJM	FILED	COMPOSIT GRAPHITE	COMPOSITES OF IN-SITU E GRAPHITE	EXFOLIATED		CHUNG, DDL	JDL
UCAR C	UCAR Carbon Technology Corp							
Keyword(s):	l(s):							
GRAFOIL	ľ							
Sub Status	Case Application Type Number	n Filing Date	Paten: Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA GRANTED			1330609	05-Jน1-1994	OL	05-Jul-2011		
US GRANTED	ORD 105102	05-Oct-1987	4946892	07-Aug-1990	LE	07-Aug-2007		

Page: 24   Division FLXGR   Flexible Graphite Redated   Flactor   Disclosure Status   Title						- Commence Control of			
Attorney   Disclosure Status   Title	Wednesday, I	November 04,	1998	Master	List By Div	ision			Page: 24
	Division	[	exible Graphite Relate	8.					
FIM	Case Number	<b>.</b>		Disclosure Status	Title				
Sub         Case Application         Filing         Patent         Issue         Tax         Expiration           GRANTED         ORD         Date         Number         Date         Schedule         Date         Date           GRANTED         ORD         28-Apr-1989         0341869         15-Dec-1993         Chedule         Date           GRANTED         ORD         89304270.5         28-Apr-1989         0341869         15-Dec-1993         28-Apr-2009           GRANTED         EPC         89304270.5         28-Apr-1989         0341869         15-Dec-1993         EP         28-Apr-2009           GRANTED         EPC         89304270.5         28-Apr-1989         0341869         15-Dec-1993         EP         28-Apr-2009           GPANTED         EPC         89304270.5         28-	015889		ME	FILED	HIGH PURI THREAD S	ITY, HIGH TEN	(PERATI	URE PIPE	HOWARD, RA
Sub         Case Application (Case Status)         Case Application (Pase Status)         Filing (Pase Status)         Patent (Pase Status)         Issue (Pase Status)         Tax (Pase Status)         Expiration (Pase Status)           GRANTED (GRANTED)         ORD (Case Status)         Type (Pase Number)         Date (Pase Status)         131906 (Pase Status)         13-Sep-1994 (Pase Status)         OL (Pase Pase Pase Pase Pase Pase Pase Pase		UCAR Cart	on Technology Corp						
Sub         Case         Application         Filing         Patent         Issue         Tax         Expiration           Case         Status         Type         Number         Date         Number         Date         Schedule         Date           GRANTED         ORD         1331906         13-Sep-1994         OL         13-Sep-2011           GRANTED         ORD         89304270.5         28-Apr-1989         0341869         15-Dec-1993         28-Apr-2009           GRANTED         EPC         89304270.5         28-Apr-1989         0341869         15-Dec-1993         EP         28-Apr-2009           GRANTED         EPC         89304270.5         28-Apr-1989         0341869         15-Dec-1993         EP         28-Apr-2009           BED         28-Apr-2009         15-Dec-1993         EP         28-Apr-2009         28-Apr-2009									
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GRANTED         ORD         1331906         13-Sep-1994         OL           GRANTED         EPC         89304270.5         28-Apr-1989         0341869         15-Dec-1993           GRANTED         ORJ         89304270.5         28-Apr-1989         0341869         15-Dec-1993           GRANTED         EPC         89304270.5         28-Apr-1989         0341869         15-Dec-1993         EP           GRANTED         ORD         111901/89         28-Apr-1989         1914049         23-Mar-1995         EP           Granted         REI         589614         29-Apr-1990         RE33760         03-Dec-1991         LE           -2         Granted         REI         589614         28-Sep-1990         5085700         04-Feb-1992         LE		כה אוליים	- ( (		TAMIIIDEL	nate	Scheuff	с рате	Agent Agent Ref #
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-3 GRANTED DIV 608396 02-Nov-1990 5085700 04-Feb-1992 LE		Granted		28-Sep-1990	RE33760	03-Dec-1991	H	03-Dec-2008	
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Division FLXGR	- 1	Flexible Graphite Related							
Case Number	Attorney	Dis	Disclosure Status	Title				Inventors	
015889RE	FJM		Open	HIGH PURI THREAD S	HIGH PURITY, HIGH TEMPERATURE PIPE THREAD SEALANT PASTE	PERATUI	E PIPE		
UCAR	UCAR Carbon Technology Corp	nology Corp							
Sub	Case	Case Application	Filing	Patent	Issue	Tax	Expiration	<b>A</b>	A cont Dof #
try Case		Type Maniper	28-Sen-1990	RE33760	03-Dec-1991			0	Bone
US Granted		REI 589614	28-Sep-1990 RE33760	RE33760	03-Dec-1991	LE			

Wednesday, November 04, 1998	998	Master I	Master List By Division	On				Page: 26
Division FLXGR Flexible Graphite Related	kible Graphite Related							
Case Number A	Attorney	Disclosure Status	Title			In	Inventors	
	FJM	FILED	INSULATIN	INSULATING COMPOSITE GASKET	GASKET	×	MERCURI, RA	·
UCAR Carbo	UCAR Carbon Technology Corp							
Keyword(s):	••							
GRAFOIL								
Sub Country Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#	nt Ref#
JP GRANTED	ORD	15-Jun-1989	1921863	07-Apr-1995	<b></b>	15-Jun-2009		
US GRANTED	ORD 231711	12-Aug-1988 4911972	4911972	27-Mar-1990	LE Z	27-Mar-2007		

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Division 1	FLXGR Flex	Division FLXGR Flexible Graphite Related						į		
Case Number	At	Attorney	Disclosure Status	Title				Inventors		
016138	FJM	M	FILED	FLEXIBLE GRA	FLEXIBLE GRAPHITE EXPANDABLE SEAL AND METHOD	PANDABI		HOWARD, RA	RA	
	UCAR Carbo	UCAR Carbon Technology Corp								
	Keyword(s):									
	GRAFOIL									
Sub Country Case Status	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#	
SII	GRANTED	ORD 658010	20-Feb-1991 5130199	5130199	14-Jul-1992	H	14-Jul-2009			

Wednesday, N	Wednesday, November 04, 1998	98	Master	Master List By Division	sion				Page: 28
Division FLXGR	ŀ	Flexible Graphite Related	ed						
Case Number	Atı	Attorney	Disclosure Status	Title				Inventors	
016166	FJM	<b>K</b>	FILED	ULTRA-TH	ULTRA-THIN PURE FLEXIBLE GRAPHITE	IBLE GRA		GETZ, G GREINKE, RA	
	UCAR Carbo	UCAR Carbon Technology Corp						HOWARD, RA	
	Keyword(s):							MERCURI, RA	
	GRAFOIL								
Sub Country Case	Sub Case Status	Case Application Type Number	n Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#	Ref#
CA	GRANTED	ORD 2020148	29-Jun-1990	2020148	11-Jul-1995		29-Jun-2010		
DE	GRANTED	EPC 90307148.8	8 29-Jun-1990	0406008	21-Sep-1994		29-Jun-2010		
EP	GRANTED	ORD 90307148.8	8 29-Jun-1990	0406008	21-Sep-1994		29-Jun-2010		
FR	GRANTED	EPC 90307148.8	8 29-Jun-1990	0406008	21-Sep-1994		29-Jun-2010		
GB	GRANTED	EPC 90307148.8	8 29-Jun-1990	0406008	21-Sep-1994		29-Jun-2010		
JP	GRANTED	ORD 174291/90	30-Jun-1990	2555212	22-Aug-1996		30-Jun-2010		
US -1	GRANTED	CIP 574807	30-Aug-1990 5149518	5149518	22-Sep-1992	H	22-Sep-2009		

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Division FLXGR Flexible Graphite Related	Flexible Gra	phite Related							
Case Number	Attorney	Dis	Disclosure Status	Title				Inventors	
016203	FJM		FILED	STABLE BI GRAPHITE	STABLE BLISTER FREE FLE GRAPHITE AND METHOD	LEXIBLE		BRETZ, RI GREINKE, RA	RA
UCAR	UCAR Carbon Technology Corp	ology Corp							
Sub Country Case Status	Case Type	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent /	Agent Agent Ref#
JP -1 PENDING		ORD 239612/92	08-Sep-1992						
US -3 GRANTED		CON 532365	22-Sep-1995	5582811	10-Dec-1996	TE			

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Division FLXGR	į.	Flexible Graphite Related	elated				,			
Case Number	At	Attorney	Disclos	Disclosure Status	Title			I	Inventors	
016287	FJM	X	h	FILED	FLEXIBLE (	FLEXIBLE GRAPHITE LAMINATE	MINATE		HOWARD, RA POLOMSKY, JJ	), RA KY, JJ
	UCAR Carbo	UCAR Carbon Technology Corp	orp							
	Keyword(s):									
	GRAFOIL									
Sub Country Case Status	Status	Case Application Type Number	tion	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Ref #
CA	GRANTED	ORD 2035092		28-Jan-1991	2035092	13-Jun-1995		28-Jan-2011	814	
DE	PENDING	EPC 69117992.1-0		26-Jan-1991				26-Jan-2011		
EP	GRANTED	ORD 91101011.4		26-Jan-1991	0440116	20-Mar-1996		26-Jan-2011		
FR	PENDING	EPC 91101011.4		26-Jan-1991				26-Jan-2011		
æ	PENDING	EPC 91101011.4		26-Jan-1991				26-Jan-2011		
II	PENDING	EPC 91101011.4		26-Jan-1991				26-Jan-2011		
JP	Granted	ORD 028107/91		29-Jan-1991	2760904	20-Mar-1998		29-Jan-2011		
US	GRANTED	ORD 471531		29-Jan-1990	4961991	09-Oct-1990	Œ	09-Oct-2007		

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Division FLXGR	Flexible Graphite Related	led		
Case Number	Attorney	Disclosure Status	Title	Inventors
016612	FJM	FILED	METHOD OF FABRICATING A FLEXIBLE GRAPHITE LAMINATE WITH A METAL OR	MERCURI, RA ROHNETH, EJ
UCAR (	UCAR Carbon Technology Corp	75	FIBERGLASS CORE	
Sub Country Case Status	Case Application Type Number	on Filing Date	Patent Issue Tax Expiration Number Date Schedule Date	tion Agent Agent Ref#
US -4 FILED	CON 910476	25-Jul-1997	LE	

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Division FLXGR	Flexible Graphite Related	e Related				
Case Number	Attorney	Disclosure Status	atus Title			Inventors
016618	FJM	FILED	FLEXIBLE RETARDA	FLEXIBLE GRAPHITE COMPOSITE FIRE RETARDANT WALLPAPER AND METHOD	APOSITE FIRE	HOWARD, RA
UCAI	UCAR Carbon Technology Corp	gy Corp				
Sub	Case Application	plication Filing	Patent	Issue	Tax Expiration	
DE GRANTED	TED EPC 92307159.1	07159.1 05-Aug-1992	1992 69204399	30-Aug-1995	05-Aug-2012	2
EP GRANTED	TED ORD 92307159.1	07159.1 05-Aug-1992	1992 0527046	30-Aug-1995	05-Aug-2012	2
FR GRANTED	TED EPC 92307159.1	07159.1 05-Aug-1992	1992 0527046	30-Aug-1995	05-Aug-2012	2
GB GRANTED	TED EPC 92307159.1	07159.1 05-Aug-1992	1992 0527046	30-Aug-1995	05-Aug-2012	2
JP PENDING	NG ORD 206755/92	755/92 03-Aug-1992	1992			
US GRANTED	TED ORD 742641		06-Aug-1991 5176863	05-Jan-1993	LE 05-Jan-2010	)

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	Master L	ist By Division	1			rage, so
Graphite Related						
	sure Status	Title				Inventors
	FILED	METHOD AN REINFORCIN	D ASSEMBLY G FLEXIBLE (	FOR RAPHITE		MERCURI, RA
		AKTICLE				
Technology Corp						
Case Application	Filing Date	Patent Number	Issue 7	edule	Expiration	Agent Agent Ref#
92305069.4	11	69222472.6 0519620	23-Dec-1992 01-Oct-1997		)2-Jun-2012 )2-Jun-2012	
	02-Jun-1992				02-Jun-2012 02-Jun-2012	
42	02-Jun-1992 02-Jun-1992				2010	_
ORD 709214 CON 674897	03-Jun-1991 03-Jul-1996	5198063	30-IVIAI-1973			
	School Sc	Disclos  F  14 0  14 0  14 0  14 0  15 0  16 0  17 0  18 0  18 0  19 0	Master Li d  Disclosure Status FILED  FILED  A 02-Jun-1992	Master Li d  Disclosure Status FILED  FILED  A 02-Jun-1992	Master List By Division    Master List By Division	Master List By Division    Master List By Division

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Division FLXGR Flexible Graphite Related	Graphite Related							
Case Number Attorney		Disclosure Status	Title				Inventors	
016742 FJM		FILED	LOW SURF/ GRAPHITE .	LOW SURFACE ACID INTERCALATED GRAPHITE AND METHOD	ERCALA		BRETZ, RI GREINKE, RA	RA
UCAR Carbon Technology Corp	echnology Corp							
Keyword(s):								
GRAFOIL								
Sub Country Case Status Tv	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	<b>Expiration</b> Date	Agent A	Agent Agent Ref #
US -1 GRANTED C	CON 953293	30-Sep-1992 5376450	5376450	27-Dec-1994	F	27-Dec-2011		

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division			Page: 35
Division FLXGR	Flexible Graphite Related	e Related				
Case Number	Attorney	Disclosure Status	Title		Inventors	tors
016764	FJM	FILED	EPOXY RESIN BONDED FLE	EPOXY RESIN BONDED FLEXIBLE	OD	LEWIS, RT
UCAR	UCAR Carbon Technology Corp	у Согр			OHNI	OHNETH, EJ
Sub	Case Application	plication Filing	Patent Is	Issue Tax Expi	ration	
US GRANTED	ED ORD 769554	554 01-Oct-1991 5192605		09-Mar-1993 LE	09-Mar-2010	

Wadnaday	Wadnarday Navambar 04 1008	NAG	Maeter	Maeter Liet By Division	3			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Dana: 36
Divisio	n FLXGR Flex	Division FLXGR Flexible Graphite Related	ted						
Case Number	AI	Attorney	Disclosure Status	Title			l li	Inventors	
016919	F	FJM	FILED	EXHAUST SEAL RING	AL RING		e =	MERCURI, RA	, RA
	UCAR Carbo	UCAR Carbon Technology Corp	Þ						
	Keyword(s):	••							
	GRAFOIL								
Sub Country Case Status	b se Status	Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
US	GRANTED	ORD		5451064	19-Sep-1995		19-Sep-2012		

Wednesday, November 04, 1998	vember 04, 19	98	Master	Master List By Division	/ision				Page: 37
Division FLXGR	1	Flexible Graphite Related	<b>E</b>			i managang ang ang ang ang ang ang ang ang			
Case Number	Att	Attorney	Disclosure Status	Title				Inventors	
017197	FJM	<u>s</u>	FILED	FLAME RI BOARD S'	FLAME RETARDANT ORIENTED STRAND BOARD STRUCTURE ELEMENT	ENTED S		FORD, BM POLLOCK, MW	V, MW
	UCAR Carbon	UCAR Carbon Technology Corp						WETULA, JJ	, JJ
	Keyword(s):								
	GRAFOIL								
Sub Country Case	Status	Type Number	n Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Ref#
AU	Granted	ORD 17781/95	01-May-1995	687170	19-Feb-1998		01-May-2015		
CA I	PENDING	ORD 2151538	12-Jun-1995				12-Jun-2015		
DE I	PENDING	EPC 95303023.6	6 03-May-1995				03-May-2015		
EP I	PUBLISHED	ORD 95303023.6	6 03-May-1995				03-May-2015		
FI I	PENDING	ORD 95/2072	28-Apr-1995				28-Apr-2015		
FR I	PENDING	EPC 95303023.6	6 03-May-1995				03-May-2015		
GB I	PENDING	EPC 95303023.6	6 03-May-1995				03-May-2015		
JP I	PENDING	ORD 134243/95					,		
NO I	PENDING	ORD 95/1655	28-Apr-1995				28-Apr-2015		
US	GRANTED	ORD 282908	29-Jul-1994	5443894	22-Aug-1995	H	22-Aug-2012		

Wednesday, November 04, 1998	14, 1998	Master	Master List By Division			Page: 38
Division FLXGR	Flexible Graphite Related	ited				
Case Number	Attorney	Disclosure Status	Title		Inventors	
017211	FJM	FILED	WATCH SERVICE	Œ		
UCAR (	UCAR Carbon Technology Corp	Ţ				
Keyword(s):	rd(s):					
GRAFOIL	)[L					
Sub Country Case Status	Case Application Type Number	ion Filing Date	Patent Is Number D	Issue Tax Expiration Date Schedule Date	Agent Agent Ref#	ent Ref#
US FILED	ORD					

Wednesday,	Wednesday, November 04, 1998	98	Master ]	Master List By Division				Page: 39
Division	Division FLXGR Flexible Graphite Related	ible Graphite Rel	ated		and the second s			
Case Number	At	Attorney	Disclosure Status	Title		In:	Inventors	
017264	FJM	X	FILED	WATCH SERVICE	VICE			
	UCAR Carbo	UCAR Carbon Technology Corp	di.					
	Keyword(s):							
	GRAFOIL							
Sub Country Case Status	se Status	Case Application Type Number	tion Filing Date	Patent Number	Issue Tax Date Sched	Tax Expiration Schedule Date	Agent /	Agent Agent Ref#
JP WS	WS FILED	ORD 290106/94	94					

Wednesday, November 04, 1998	1998	Master	Master List By Division	sion			Page: 40
Division FLXGR FI	Flexible Graphite Related	d					
Case Number	Attorney	Disclosure Status	Title				Inventors
017265	FJM	FILED	FIRE-RESIS	FIRE-RESISTANT SHEET MATERIAL	MATERIA		FORD, BM MERCURI, RA
UCAR Car	UCAR Carbon Technology Corp						WEBER, TW
Sub Country Case Status	Case Application Type Number	ı Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#
AU PENDING	ORD 5034696	28-Mar-1996				28-Mar-2016	
CA PENDING	ORD 2172878	28-Mar-1996				28-Mar-2016	
DE PENDING	EPC	13-Mar-1996					
EP PUBLISHED	D ORD 96302098.7	27-Mar-1996				27-Mar-2016	
FI PENDING	EPC	13-Mar-1996					
FR PENDING	EPC	13-Mar-1996					
GB PENDING	EPC	13-Mar-1996					
IT PENDING	EPC	13-Mar-1996					
JP PENDING	ORD 077292/96	29-Mar-1996				29-Mar-2016	
NO PENDING	ORD P961219	26-Mar-1996					
US -1 PENDING	CON 937416	07-Oct-1997			H.		

Wednesday, l	Wednesday, November 04, 1998	)98	Master	Master List By Division	ision				Page: 41
Division	Division FLXGR Flex	Flexible Graphite Related	ed					and the second s	
Case Number	At	Attorney	Disclosure Status	Title				Inventors	
017266	FJM	X	FILED	GAS FILTERI GENERATOR	GAS FILTERING DEVICE FO GENERATOR	FOR AIR BAG		FORD, BM WETULA, JJ	
	UCAR Carbo	UCAR Carbon Technology Corp							
	Keyword(s):								
	GRAFOIL								
Country Case	e Status	Type Number	Date	Number	Date	Schedule D:	Date	Agent Age	Agent Ref#
AU	Granted	ORD 40972/96	15-Jan-1996	690391	23-Apr-1998	15	15-Jan-2016		
CA	PENDING	ORD 2167227	15-Jan-1996			15	15-Jan-2016		
DE	PENDING	EPC	19-Dec-1995			19	19-Dec-2015		
EP	PUBLISHED	ORD 96300287.8	8 16-Jan-1996			16	16-Jan-2016		
FR	PENDING	EPC	19-Dec-1995			19	19-Dec-2015		
GB	PENDING	EPC	19-Dec-1995			19	19-Dec-2015		
TI	PENDING	EPC	19-Dec-1995			19	19-Dec-2015		
JP	PENDING	ORD 005454/96	17-Jan-1996			17	17-Jan-2016		
MX.	PENDING	ORD 9600255	16-Jan-1996			16	l6-Jan-2016		
US	GRANTED	ORD 373593	17-Jan-1995	5494506	27-Feb-1996	LE			

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Division FLXGR	11	Flexible Graphite Related				
Case Number	Att	Attorney Dis	Disclosure Status	Title		Inventors
030008	FJM	A	Filed	FLEXIBLE GRA	FLEXIBLE GRAPHITE COMPOSITE SHEET AND METHOD	MERCURI, RA
	UCAR Carbo	UCAR Carbon Technology Corp				
	Keyword(s):					
	GRAFOIL					
Sub	Sub Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Tax Expiration Date Schedule Date	n Agent Agent Ref#
TW	FILED	ORD 87104061	23-Mar-1998			
TW -1	Filed	ORD 87109463	15-Jun-1998		H	
US	PENDING	ORD 819744	18-Mar-1997		H	
US -1	PENDING	CIP 887188	02-Jul-1997		Œ	
WO	FILED	ORD US98/03802	17-Mar-1998			845
WO -1	Filed	ORD US98/13578	01-Jul-1998		Ħ	

Wednesday,	Wednesday, November 04, 1998	998	Master	Master List By Division	sion			Page: 43
Divisio	Division FLXGR Flex	Flexible Graphite Related						
Case Number	Ai	Attorney Di	Disclosure Status	Title				Inventors
030010	٦.	FJM	Filed	FLEXIBLE	FLEXIBLE GRAPHITE COMPOSITE	OMPOSITE		CAPP, JP
	UCAR Carbo	UCAR Carbon Technology Corp						MERCURI, RA
Sub Country Case	se Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#
TW	FILED	ORD 87104727	30-Mar-1998					] }
TW -1	Filed	ORD 87109066	08-Jun-1998			LE		
TW -2	Filed	ORD 87109067	08-Jun-1998			LE		
US	PENDING	ORD 833136	04-Apr-1997			LE		
US -1	PENDING	CIP 886875	02-Jul-1997			LE		
US -2	PENDING	CIP 900736	25-Jul-1997			Ε		
US -3	Pending	CIP 111139	07-Jul-1998			LE		
US -4	Pending	CIP 088850	02-Jun-1998			LE		
US -5	Pending	CIP 112717	09-Jul-1998			LE		
US -6	Pending	DIV 136323	19-Aug-1998			LE		
WO	FILED	ORD US98/06476	03-Apr-1998					
WO -I	Filed	ORD US98/13579	01-Jul-1998			LE		
WO -2	Filed	ORD US98/14804	22-Jul-1998			LE		

Wednesd	ay, N	Wednesday, November 04, 1998	998	Master	Master List By Division	ion		Page: 44
Div	ision	Division FLXGR Flex	Flexible Graphite Related					
Case Number		A	Attorney Di	Disclosure Status	Title			Inventors
030011		<u></u>	FJM	Filed	OXIDATION FLEXIBLE	V AND CORRO GRAPHITE CO	OXIDATION AND CORROSION RESISTANT FLEXIBLE GRAPHITE COMPOSITE SHEET	BLAIN, DP MCGLAMERY, JT
		UCAR Carb	UCAR Carbon Technology Corp		AND METHOD	OD		MERCURI, RA
Sub	Sub		Case Application	Filing	Patent Number	Issue Date	Tax Expiration Schedule Date	Agent Agent Ref#
WT		FILED	ORD 87104730	30-Mar-1998				
TW	<u>.</u>	FILED	ORD 87104728	30-Mar-1998			LE	
SU		PENDING	ORD 833356	04-Apr-1997			E	
SU	<u>.</u>	PENDING	CIP 887190	02-Jul-1997			H	
WO		FILED	ORD US98/06279	03-Apr-1998				845
WO	<u>.</u>	FILED	ORD US98/13577	01-Jul-1998				845

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Division FLX	GR Flexibl	Division FLXGR Flexible Graphite Related							
Case Number	Attorney		Disclosure Status	Title				Inventors	
030012	FJM		Filed	FLEXIBLE ( FOR PROTE	FLEXIBLE GRAPHITE COMPOSITE ARTICLE FOR PROTECTION AGAINST THERMAL	OMPOSITE A	(CLE	KRASSOWSKI, DW MERCURI, RA	SKI, DW RA
C	CAR Carbon	UCAR Carbon Technology Corp		DAMAGE					
Sub		Case Application	Filing	Patent	Issue Date	Tax Expi	Expiration Date	Agent /	Agent Agent Ref#
TW Filed		ORD 87109071	08-Jun-1998			LE			
		ORD 872428	10-Jun-1997			H			
WO Fi	Filed	ORD US98/10928	04-Jun-1998			=======================================			

Wednesday, November 04, 1998		Master Li	Master List By Division		Page: 46
Division FLXGR Flex	Flexible Graphite Related				
Case Number At	Attorney Disclosu	Disclosure Status	Title		Inventors
	FJM	Filed	FLEXIBLE GRAPHITE SHEET WITH DECREASED ANISOTROPY		MERCURI, RA
UCAR Carbo	UCAR Carbon Technology Corp				
Sub Country Case Status	Case Application Type Number	Filing Date	Patent Issue Number Date	Tax Expiration Schedule Date	Agent Agent Ref#
TW Filed	0	08-Jun-1998		. H	
US PENDING		26-Jun-1997		- E	
US -1 Pending		13-Aug-1998		<u>.</u> .	
WO Filed	ORD US98/11492 12	12-Jun-1998		ŗ	

Wednesday, November 04, 1998  Division FLXGR Flexible	er 04, 1998 R Flexible Graphite Related		Master List By Division			Page: 47
Number	Attorney	Disclosure Status	Title		Inventors	
030014	FJM	Filed	ELECTRICALLY CONDUCT	JCTIVE SEAL FOR	GOUGH, JJ MERCURI, RA	
UC <i>t</i>	UCAR Carbon Technology Corp	ਯੂੰ				
Country Case Status	s Type Number	Date	Number Date	Schedule Date	Agent Agent Ref#	\cf #
TW Pending	ing ORD 87109147	7 09-Jun-1998		H		
US PENDING	DING ORD 934292	19-Sep-1997		I.E		
US -1 Pending	ing <u>CIP</u> 090054	03-Jun-1998		Ħ		
WO Filed	ORD			E		

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Division FLXC	Division FLXGR Flexible Graphite Related	te Related								
Case Number	Attorney	Discl	Disclosure Status	Title			I	Inventors		
030015	FJM		Open	EXPANDAB	EXPANDABLE GRAPHITE AND METHOD	E AND MET	_	GREINKE, RA	RA	
UC	UCAR Carbon Technology Corp	gy Corp								
Sub Country Case Status		Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi	<b>Expiration Date</b>	Agent A	Agent Agent Ref#	,,
US Pending	ling ORD 015590		29-Jan-1998			LE				

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Division FLXGR	Flexible Graphite Related	elated			
Case	Attorney	Disclosure Status	Title		Inventors
030016	FJM	Open	INTUMESCENT COMPOSITION AND	APOSITION AND	FORD, BM
0,000,00	,		METHOD		FOUCHT, ME
1					GARVEY, CE
UCAR	UCAR Carbon Technology Corp	קוף			HUTCHINGS, DA
					KRASSOWSKI, DW
					QURESHI, SP
Sub	Case Application	cation Filing		Tax Expiration	Agent Dof #
Country Case Status	Type Number	er Date	Number Date	Schedule Date	Agent Agent Net #
US Pending		7 02-Jan-1998		LE	

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Division FLXGR	Division FLXGR Flexible Graphite Related	celated				
Case Number	Attorney	Disclosure Status	Title		Inventors	
030021	FJM	Filed	FLEXIBLE GRAPHITE WITH NON-CA PSA BACKING AND RELEASE LINER	FLEXIBLE GRAPHITE WITH NON-CARRIER PSA BACKING AND RELEASE LINER	Tzeng, JW	7
UCAR	UCAR Carbon Technology Corp	Согр				
Sub Country Case Status	Case Application Type Number	cation Filing er Date	Patent Issue Number Date	Tax Expiration Schedule Date	Agent	Agent Agent Ref#
US Pending		5 07-Oct-1998		LE		

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division	Page: 51
Division FLXGR	Flexible Graphite Related	te Related		
Case Number	Attorney	Disclosure Status	Title	Inventors
030023	FJM	Filed	THERMAL INSULATING DEVICE FOR HIGH TEMPERATURE REACTORS WHICH UTILIZE	HIGH BLAIN, DP JTILIZE MERCURI, RA
UCAR	UCAR Carbon Technology Corp	gy Corp	HYDROGEN AND CHLOROSILANES AS REACTANTS	
Sub	Case Application	plication Filing	Issue Tax	ration
Country Case Status	Type Number		Number Date Schedule Date	ate Agent Agent Ref#
US Pending	ORD	23-Oct-1998	ET	

Wednesda	Wednesday, November 04, 1998	14, 1998	Master	Master List By Division	sion				Page: 52
Divis	Division GRER	Graphite Electrode Related	elated						
Case Number		Attorney	Disclosure Status	Title				Inventors	
008926		FJM	FILED	CHEMICAL COATING	CHEMICALLY BONDED ALUMINUM COATING FOR CARBON AND PROCESS	ALUMINU AND PRO	SS	SARA, RV	7
	UCAR (	UCAR Carbon Technology Corp	dr	THEREFOR					
Country	Sub Sub	Case Application Type Number	ition Filing r Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA .	-1 GRANTED	D ORD		1045919	01-Sep-1979	NI	09-Jan-1996		
. SU	3 GRANTED	ED DIV 874366	01-Feb-1978	4252856	24-Feb-1981	N	24-Feb-1998		
	4 GRANTED	ED DIV 182494	29-Aug-1980 4347083	4347083	31-Aug-1982	H	31-Aug-1999		
US -	5 GRANTED	ED DIV 182493	29-Aug-1980 4402744	4402744	06-Sep-1983	H	06-Sep-2000		

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division	ision			Page: 53
Division GRER	Graphite Ele	Graphite Electrode Related	William to the desire of the second s				
Case Number	Attorney	Disclosure Status	Title			Inventors	
009308	FJM	FILED	PROCESS GRAPHITI	PROCESS FOR PRODUCING AN IMPROVED GRAPHITE BODY HAVING A LOW	G AN IMPROVED A LOW	LEWIS, IC	٠ - -
UCAR	UCAR Carbon Technology Corp	ology Corp	COEFFICI	COEFFICIENT OF THERMA	AL EXPANSION	() () ()	į
Sub	Case	Case Application Filing	Patent	Issue	Tax Expiration		
CA GRANTED	- 11	ORD	1060161	14-Aug-1979	14-Aug-1996	- 11	

Wednesday, November 04, 1998	- 04, 1998		Master	Master List By Division	sion				Page: 54
Division GRER	Graphite l	Graphite Electrode Related							
Case Number	Attorney		Disclosure Status	Title	Transfer of the state of the st		-	Inventors	
009588	FJM		FILED	IMPROVED METHOD C	IMPROVED GRAPHITE ELE METHOD OF MAKING	LECTRODE AND		MERROW, JK MOORE, AW	, jk AW
UCAR	Carbon Tec	UCAR Carbon Technology Corp						VOLK, HF	. 11
Sub	Cas	Case Application	Filing	Patent	Issue	Tax	Expiration		
Country Case Status	Тур	Type Number	Date	Number	Date	Schedule Date	Date	Agent	Agent Agent Ref#
CA GRANTED	TED ORD	D		1089901	18-Nov-1980		18-Nov-1997		

Wednesday, November 04, 1998	04, 1998		Master	Master List By Division	ion				Pa	Page: 55
Division GRER	Graphite E	Graphite Electrode Related								
Case Number	Attorney		Disclosure Status	Title				Inventors		
009756	FJM		FILED	FRIABLE S	FRIABLE SOCKET THREAD JOINT	AD ELECTRODE		BURWELL, WH	, WH	
UCAR	UCAR Carbon Technology Corp	mology Corp								
			!	<b>.</b>	•	3				
Country Case Status	Туре	Type Number	Date	Number	Date	Schedule Date	Date	Agent .	Agent Agent Ref#	
CA -1 GRANTED	TED ORD			1103729	23-Jun-1981		23-Jun-1998			

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4159184 1103729

26-Jun-1979 23-Jun-1981

26-Jun-1996 23-Jun-1998

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Division GRER		Graphite Electrode Related	Related					The state of the s		
Case Number	At	Attorney	Disclosure Status	e Status	Title				Inventors	
012026	FJM	3	FILED	ED	METHOD A.	METHOD AND APPARATUS FOR ORIENTATION OF ELECTRODE JOINT	US FOR		BELZ, HM	
ر	JCAR Carbo	UCAR Carbon Technology Corp	Corp		THREADS					
Sub Country Case Status	tatus	Case Application Type Number		Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA GI	GRANTED	ORD			1169900	26-Jun-1984		26-Jun-2001		
US GI	GRANTED	ORD 079886		28-Sep-1979 4349910	4349910	14-Sep-1982	NT.	14-Sep-1999		

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Division GRER	Graphite Electrode Related	ated						
Case Number	Attorney	Disclosure Status	Title			I	Inventors	
012326	FJM	FILED	HIGH TAPI GRAPHITE	HIGH TAPER ANGLE CONNECTING PIN FOR SELDIN, EJ GRAPHITE ELECTRODE JOINTS WENG, TL	NECTINO OINTS	FIN FOR	SELDIN, EJ WENG, TL	
UCAR	UCAR Carbon Technology Corp	Þ						
Sub Country Case Status	Case Application Type Number	ion Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA GRANTED	ED ORD		1148202	14-Jun-1983		14-Jun-2000		
EP GRANTED	TED ORD 80303383.6		0026646	27-Aug-1986		26-Sep-2000		
US GRANTED	(ED ORD 079887	28-Sep-1979 4290709	4290709	22-Sep-1981	Z	22-Sep-1998		

Wednesday, November 04, 1998	er 04, 1998		Master I	Master List By Division	0n				Page: 58
Division GRER		Graphite Electrode Related							
Case Number	Attorney		Disclosure Status	Title			I	Inventors	
012994	FJM		FILED	METHOD FO	METHOD FOR PRODUCING LOW SULFUR PREMIUM COKE FROM HIGH SULFUR	G LOW SULF IGH SULFUR		DIDCHENKO, R LEWIS, IC	O, R
UCA	AR Carbon To	UCAR Carbon Technology Corp		DECANT OILS	S			,	
Sub		Case Application	Filing	Patent		Tax Schedule	Expiration Date	Agent A	gent Ref#
Country Case Status		Type Number	Date	Number	Date	Schedule Date	Date	Agent A	Agent Agent Kei #
EP GRA	GRANTED O	ORD 82303429.3	30-Jun-1982	0068898	30-Dec-1986		30-Jun-2002		
US -5 GRAI	GRANTED O	ORD 355833	22-May-1989 5167796	5167796	01-Dec-1992	LE	01-Dec-2009		

Wednesday, November 04, 1998	r 04, 1998		Master	Master List By Division	ision				Page: 59
Division GRER	Graphite Ele	Graphite Electrode Related						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Case Number	Attorney	Dis	Disclosure Status	Title				Inventors	
013073	FJM		FILED	IMPROVED EI COMPONENT	IMPROVED ELECTRIC ARC FURNACE COMPONENT	RC FURN		LAURIA, AT VOISINET, LJ	
UCAJ	UCAR Carbon Technology Corp	ology Corp							
Sub Country Case Status		Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent /	Agent Agent Ref#
CA GRANTED	TED ORD			1182505	12-Feb-1985	OL	12-Feb-2002		
US GRANTED		ORD 272786	10-Jun-1981	4453253	05-Jun-1984	LE	05-Jun-2001		

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division	sion				Page: 60
Division GRER	Graphite Electrode Related	lated						
Case Number	Attorney	Disclosure Status	Title			I	Inventors	
013250	FJM	FILED	PREMIUM	PREMIUM COKE FROM A BLEND OF PYROLYSIS TAR & HYDROTREATED	BLEND (		DICKINSON, EM	N, EM
UCAR	UCAR Carbon Technology Corp	Ţ	DECANT OIL	ĬĮ.				
Sub Country Case Status	Case Application Type Number	ion Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent ,	Agent Agent Ref#
EP GRANTED		5.4 29-Dec-1982 0083143	0083143	22-Jan-1986		29-Dec-2002		
US -5 GRANTED	ED CON 696417	30-Jan-1985 4740293	4740293	26-Apr-1988	LE	26-Apr-2005		

Wednesday, November 04, 1998	r 04, 1998	Master	Master List By Division			Page: 61
Division GRER	Graphite Electrode Related	rode Related				
Case Number	Attorney	Disclosure Status	Title		Inventors	
013353	FJM	FILED	BORONATED CARBONS FOR ELECTRODE APPLICATIONS	OR ELECTRODE	SARA, RV	7
UCAF	UCAR Carbon Technology Corp	ogy Corp				
Country Case Status		Type Number Date	Number Date S	Schedule Date	Agent	Agent Agent Ref#

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18-Nov-2003 13-Sep-2005

18-Nov-1983

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Wednesday, November 04, 1998	ovember 04, 1	998	Master	Master List By Division	sion	3.			Page: 62
Division GRER		Graphite Electrode Related	ited						
Case Number	<b>A</b>	Attorney	Disclosure Status	Title				Inventors	
013415	Ŧ	FJM	FILED	MAGNETIO	MAGNETIC RESONANCE APPARATUS	APPARA		SINGER, LS	ST
	UCAR Carb	UCAR Carbon Technology Corp							
Sub Country Case Status	Status	Case Application	n Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA	GRANTED	ORD		1202078	18-Mar-1986		18-Mar-2003		
SU	GRANTED	ORD 393391	29-Jun-1982	4455527	19-Jun-1984	LE	19-Jun-2001		

Wednesday, November 04, 1998	mber 04, 199	98	Master	Master List By Division	sion				Page: 63
Division GRER		Graphite Electrode Related	ted						
Case Number	Att	Attorney	Disclosure Status	Title			1	Inventors	
013503	FJM	<b>A</b>	FILED	METHOD &	METHOD & ARTICLE FOR PROTECTING TAPERED THREADED ELECTRODE JOINTS	(PROTEC	TS	BELZ, HM STIEBER HC	HC
C	JCAR Carbor	UCAR Carbon Technology Corp		BY USE OF	BY USE OF AN ALIGNMENT MECHANISM	NT MECH			
Sub Country Case Status	atus	Case Application Type Number	n Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA GF	GRANTED	ORD		1204137	06-May-1986	OL	06-May-2003		
EP GI	GRANTED	ORD 83106183.3	3 24-Jun-1983	0101819	01-Jul-1987		24-Jun-2003		
MX GF	GRANTED	ORD		153994	18-Mar-1987	ij	18-Mar-2001		
US GI	GRANTED	ORD 393989	30-Jun-1982	4435816	06-Mar-1984		06-Mar-2001		

Wednesday, November 04, 1998	r 04, 1998		Master	Master List By Division	ion				Page: 64
Division GRER	Graphite El	Graphite Electrode Related	4						
Case Number	Attorney	Di	Disclosure Status	Title				Inventors	
013795	FJM		FILED	UPGRADING OF PYR ACIDIC CATALYSTS	UPGRADING OF PYROLYSIS TAR USING ACIDIC CATALYSTS	SIS TAR I		DICKINSON, EM DIDCHENKO, R	ON, EM VKO, R
UCAI	UCAR Carbon Technology Corp	nology Corp							
Sub Status		Case Application	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
Country Case Status		Type Number	Date	Number	Date	chedule	Date	Agent	Agent Agent Kei #
US GRANTED		ORD 684139	20-Dec-1984 4740291	4740291	26-Apr-1988	LE	26-Apr-2005		

Wednesday, November 04, 1998	Vovember 04,	1998	Master	Master List By Division	ision				Page: 65
Division GRER		Graphite Electrode Related	lated						
Case Number		Attorney	Disclosure Status	Title				Inventors	
013920		FJM	FILED	CARBONA	CARBONACEOUS ARTICLES HAVING	LES HAVING E COATINGS		SARA, RV	
	UCAR Carl	UCAR Carbon Technology Corp	IJ	THEREON			i		
<u> </u>				Date		∃ Q			
Country Case Status	e Status	Type Number	Date	Number	Date	Schedule Date	Date	Agent /	Agent Agent Ref#
CA	GRANTED	ORD		1228605	27-Oct-1987		27-Oct-2004		
EP	GRANTED	ORD 84850235.7	5.7 27-Jul-1984	0134770	31-Mar-1993		27-Jul-2004		
ES -2	GRANTED	DIV 549483		549483	24-Sep-1986		24-Sep-2006		
FR	GRANTED	EPC 84850235.7	5.7 27-Jul-1984	0134770	31-Mar-1993		27-Jul-2004		
IT	GRANTED	EPC 84850235.7	5.7 27-Jul-1984	0134770	31-Mar-1993	EP	27-Jul-2004		

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division		Page: 66
Division GRER	Graphite Electrode Related	le Related			
Case Number	Attorney	Disclosure Status	Title		Inventors
014186	FJM	FILED	ESTERS AS PITCH PLASTICIZERS	LASTICIZERS	LEWIS, RT
					TALLON, JA
UCAR	UCAR Carbon Technology Corp	Corp			
Sub Country Case Status	Case Application Type Number	lication Filing 1ber Date	Patent Issue Number Date	Tax Expiration Schedule Date	Agent Agent Ref#
US -1 GRANTED		595 13-May-1986 4715897	4715897 29-Dec-1987	1987 LE 29-Dec-2004	

Wednesday, November 04, 1998	04, 1998	Master l	Master List By Division	ion				Page: 67
Division GRER	Graphite Electrode Related	elated		•				
Case	Attorney	Disclosure Status	Title			In	Inventors	
014291	FJM	FILED	UPGRADIN	UPGRADING OF PYROLYSIS	SIS TAR	ם ם	DICKINSON, EM DIDCHENKO, R	N, EM (O, R
UCAR	UCAR Carbon Technology Corp	ф						
Sub Status	Case Application	ıtion Filing r Date	Patent Number	Issue Date	Tax Expi	Expiration Date	Agent	Agent Agent Ref#
US GRANTED		20-Dec-1984 4762608	4762608	09-Aug-1988	LE	09-Aug-2005		

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division	ion				Page: 68
Division GRER	Graphite Electrode Related	Related					-	
Case Number	Attorney	Disclosure Status	Title				Inventors	
014361	FJM	FILED	NITRO-SUE FOR THE P	NITRO-SUBSTITUTED PITCH AND PROCESS FOR THE PRODUCTION THEREOF	TCH AND		LEWIS, IC	C
UCAR	UCAR Carbon Technology Corp	Corp						
Sub	Case Application	cation Filing	Patent	Issuc	Тах Ехрі	Expiration		
US -1 GRANTED	TED CON 936733	3 17-Nov-1986 4755276	4755276	05-Jul-1988	LE	05-Jul-2005		

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Division GRER	Graphite Electrode Related	Related			
Case Number	Attorney	Disclosure Status	Title		Inventors
014713	FJM	FILED	HIGH COKING VALUE PITCH BINDERS	PITCH BINDERS	GREINKE, RA
UCAI	UCAR Carbon Technology Corp	orb			
Sub	Case Application Type Number	ation Filing er Date	Patent Issue Number Date	Tax Expiration Schedule Date	Agent Agent Ref#

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05-Dec-1985 4762566

09-Aug-1988

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Division GRER		Graphite Electrode Related							
Case Number	Attorney		Disclosure Status	Title				Inventors	
014744	FJM		FILED	ELECTRODI	ELECTRODE MEMBER AND I		PROCESS FOR	CHRYSSON LEWIS, IC	CHRYSSOMALLIS, GS LEWIS, IC
UC	UCAR Carbon Technology Corp	chnology Corp						NAZEM, F SINGER, LS	i <sub>Δ</sub>
Sub Country Case Status		Case Application Type Number	Filing Date	Patent Number	Issuc Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
US GR.	TED	ORD 680995	13-Dec-1984 4729689	4729689	08-Mar-1988	LE	08-Mar-2005		

014783 FJM	Case Number Atto	Division GRER Graph	Wednesday, November 04, 1998
<u> </u>	Attorney	Graphite Electrode Related	8
FILED	Disclosure Status	ted	Master
ELECTRODE JOINT THREAD FORM	Title		Master List By Division
BURWELL, WH	Inventors		Page: 71

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Counti	Sub Ty Cas	Sub Country Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#	
CA	<u>-</u>	GRANTED	ORD		1297145	10-Mar-1992	T0	10-Mar-2009	THE CASE OF THE CA		1
DE		GRANTED	EPC 86303707.3	15-May-1986 0202128	0202128	12-Feb-1992		15-May-2006			
甲		GRANTED	ORD 86303707.3	15-May-1986	0202128	12-Feb-1992		15-May-2006			
ĘP	<u>.</u>	PENDING	ORD 87305315.1	16-Jun-1987				16-Jun-2007			
ŦR		GRANTED	EPC 86303707.3	15-May-1986	0202128	12-Feb-1992		15-May-2006			
æ		GRANTED	EPC 86303707.3	15-May-1986 0202128	0202128	12-Feb-1992		15-May-2006			
듸		GRANTED	EPC 86303707.3	15-May-1986 0202128	0202128	12-Feb-1992	ΕP	15-May-2006			
MX		GRANTED	ORD	15-May-1986	168315	18-May-1993		15-May-2006			
ΜX	<u>.</u>	GRANTED	ORD	16-Jun-1987	168890	14-Jun-1993		16-Jun-2007			
SU	-	GRANTED	CIP 875252	17-Jun-1986	4679206	07-Jul-1987	LE	07-Jul-2004			

Wednesday, November 04, 1998	er 04, 1998	Master	Master List By Division	jion				Page: 72
Division GRER	Graphite Electrode Related	Related					:	
Case Number	Attorney	Disclosure Status	Title				Inventors	
014852	FJM	FILED	OXIDATIOI CARBON E	OXIDATION RETARDED GRAPHITE OR CARBON ELECTRODE AND METHOD FOR	GRAPHITI ND METH	R	CHIU, CC	
UCA	UCAR Carbon Technology Corp	dıoʻ	PRODUCIN	PRODUCING THE ELECTRODE	RODE			
Sub	Case Application	ation Filing	Patent	Issue	Tax	Expiration		
Country Case Status			Number	Date	Schedule Date	Date	Agent	Agent Agent Ref#
CA GRANTED	NTED ORD		1287862	20-Aug-1991	J0	20-Aug-2008		
EP GRAI	GRANTED ORD 86115772.5	772.5 13-Nov-1986 0223205	0223205	28-Feb-1990		13-Nov-2006		
US GRANTED	NTED ORD 797671	13-Nov-1985 4726995	4726995	23-Feb-1988		23-Feb-2005		

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Wednesday,	Wednesday, November 04, 1998	998	Master	Master List By Division	ion				Page: 73
Divisio	Division GRER Gra	Graphite Electrode Related	8.						
Case Number	Ai	Attorney	Disclosure Status	Title				Inventors	
015057	IJ	FJM	FILED	CARBON-C CONTAIND PITCH AS A	CARBON-CARBON COMPOSITES CONTAINING POORLY GRAPHITIZING PITCH AS A BINDER AND/OR IMPREGNANT	OSITES RAPHITIZI VOR IMPRI		HOWARD, RA LEWIS, IC	, RA
	UCAR Carbo	UCAR Carbon Technology Corp		HAVING A THERMAL FLEXURAL	HAVING A REDUCED COEFFICIENT OF THERMAL EXPANSION AND IMPROVED FLEXURAL STRENGTH	EFFICIENT ND IMPRO	OF OF )VED		
Sub	-	Case Application	Filing	Patent	Issue	Tax Expi	Expiration		
CA	GRANTED	ORD 522522	10-Nov-1986	1335323	25-Apr-1995				
SU	GRANTED	ORD 790236	22-Oct-1985	5413738	09-May-1995	LE (	09-May-2012		
US -1	GRANTED	DIV 377467	24-Jan-1995	5688155	18-Nov-1997	LE			
US -2	GRANTED	DIV 451537	26-May-1995 5607770	5607770	04-Mar-1997	H			

				an a					
Wednesday, November 04, 1998	ember 04, 1998		Master Li	Master List By Division					Page: 74
Division GRER		Graphite Electrode Related							
Case	Attorney		Disclosure Status	Title			Inv	Inventors	
015290	FJM		FILED	ELECTRODE JOINT	JOINT		DA	DAGATA, FJ	
	UCAR Carbon	UCAR Carbon Technology Corp							
Sub		Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expir	Expiration Date	Agent Agent Ref#	ıt Ref#
EP GRAN		ORD 87112798.1	02-Sep-1987	0260529	11-Dec-1991		02-Sep-2007		
EP -1	Z	ORD 87112798.1	02-Sep-1987	0260529	11-Dec-1991		02-Sep-2007		
ਜ	PUBLISHED	ORD 220566/87	04-Sep-1987		17 Ear 1000	n -	16_Feh_2005		
S	GRANTED	ORD 904067	05-Sep-1986	4/20101	10-1-00	ţ			

Wednesday, November 04, 1998	)4, 1998		Master I	Master List By Division	0 <b>n</b>				Page: 75
Division GRER	Graphite Electrode Related	ode Related							
Casc Number	Attorney	Disclo	Disclosure Status	Title				Inventors	
015302	FJM	יד	FILED	нісн сокі	HIGH COKING VALUE BIND	NDER SYSTEM		WELCH, RR	R
UCAR (	UCAR Carbon Technology Corp	ду Согр							
<u> </u>	Case Application		Filing	Patent	Issue	Tax	Expiration		
Country Case Status	Type Number		Date	Number	Date	Schedule Date	Date	Agent	Agent Agent Ref#
US GRANTED	ED ORD 038065		14-Apr-1987 4844740	4844740	04-Jul-1989	LE	04-Jul-2006		

Wednesday, November 04, 1998	04, 1998	Master l	Master List By Division	ion				Page: 76
Division GRER	Graphite Electrode Related	celated						
Case Number	Attorney	Disclosure Status	Title			In	Inventors	
015498	FJM	FILED	JOIN'T FOR	JOIN'T FOR CARBON ELECTRODES	TRODES		DAGATA, FJ	, ਸ
UCAR	UCAR Carbon Technology Согр	огр						
Sub Country Case Status	Case Application Type Number	ation Filing r Date	Patent Number	Issue Date	Tax Expi Schedule Date	<b>Expiration Date</b>	Agent	Agent Agent Ref#
IIS GRANTED		05-May-1988 4813805	4813805	21-Mar-1989 LE		21-Mar-2006		

Wednesday, November 04, 1998	1998	Master	Master List By Division	sion				Page: 77
Division GRER Gr	Graphite Electrode Related	<b>L</b>						
Case Number	Attorney Di	Disclosure Status	Title				Inventors	
015715 F	FJM	FILED	TREATMEN	TREATMENT OF PETROLEUM COKES TO INHIBIT COKE PUFFING	EUM CO	OKES TO	BALL, DR ORAC, TH	7
UCAR Cart	UCAR Carbon Technology Corp						QUANDT, HC	НС
Sub Country Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi	Expiration e Date	Agent	Agent Ref#
BR Published	ORD PI8903713.8	26-Jul-1989						
CA GRANTED	ORD		1322184	14-Sep-1993	19	14-Sep-2010		
CN GRANTED	ORD 89107310.8	24-Jul-1989	89107310.8	14-Apr-1995	19	24-Jul-2004		
CZ Granted	ORD PV4524/89	27-Jul-1989	283759	15-Apr-1998		27-Jul-2009		
DD GRANTED	ORD	24-Jul-1989	287526	28-Feb-1991	19	24-Jul-2007		
DE GRANTED	EPC 89307474.0	22-Jul-1989	0410050	18-Nov-1993		22-Jul-2009		
EP GRANTED	ORD 89307474.0	22-Jul-1989	0410050	18-Nov-1993		22-Jul-2009		
ES GRANTED	EPC 89307474.0	22-Jul-1989	2050242	18-Nov-1993		22-Jul-2009		
GB GRANTED	EPC 89307474.0	22-Jul-1989	0410050	18-Nov-1993		22-Jul-2009		
ID PENDING	ORD P-003978	29-Jul-1992				29-Jul-2003		
IN GRANTED	ORD 648/DEL/89	24-Jul-1989	175748	24-Jul-1989		24-Jul-2003	690	
JP PUBLISHED	ORD 191243/89	24-Jul-1989	1981115			24-Jul-2009		
KR GRANTED	ORD		73587	13-May-1994	J0	22-Dec-2008		
MX GRANTED	ORD	24-Jul-1989	170984	22-Sep-1993		24-Jul-2009		
PL GRANTED	ORD	24-Jul-1989	163084	08-Sep-1994		24-Jul-2009		
RO GRANTED	ORD	16-Aug-1989	106118	29-Jan-1993		16-Aug-2009		

Wednesday,	Wednesday, November 04, 1998	998	Master	Master List By Division	ision			Page: 78
Divisio	Division GRER Gra	Graphite Electrode Related	-		The second secon			
RU	GRANTED	ORD 4614772	24-Jul-1989	2081152	10-Jun-1997		24-Jul-2009	
TW	GRANTED	ORD 78106393		NI-42758	05-Mar-1991		11-Nov-2005	
SO	GRANTED	ORD 164749	07-Mar-1988	4875979	24-Oct-1989	LE	24-Oct-2006	
US -2	GRANTED	CON 624475	10-Dec-1990	5110359	05-May-1992	LE	05-May-2009	
US -3	GRANTED	DIV 755559	05-Sep-1991	5118287	02-Jun-1992	H	02-Jun-2009	
υY	PENDING	ORD P1478/89	24-Jul-1989				24-Jul-2009	
ZA	GRANTED	ORD 89/5627	24-Jul-1989	89/5627	31-Oct-1990		24-Jul-2009	

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Division GRER	Graphite Ele	Graphite Electrode Related					
Case Number	Attorney	Disclosure Status	Status Title			Inventors	
015783	FJM	FILED		METHOD FOR TREATING A GRAPHITE OR CARBON BODY TO FORM A PROTECTIVE	A GRAPHITE OR A PROTECTIVE	COLEMAN, PD WISE, FE	PD
UCAR	UCAR Carbon Technology Corp	ology Corp	COA	COATING			
Sub Country Case Status	Case Type	Case Application Filing Type Number Date	ng Patent	t Issue ocr Date	Tax Expiration Schedule Date		Agent Agent Ref#
County CERANTED			01-Jul-1991 5143749	19 01-Sep-1992	LE 01-Sep-2009	009	

015962 FJM	Case Number Attorney	Division GRER Graphit	Wednesday, November 04, 1998
FILED	ney Disclosure Status	Graphite Electrode Related	
HIGH STRENGTH CARBONACEOUS CEMENT CHIU, CC	Title		Master List By Division
			Page: 80

## UCAR Carbon Technology Corp

SU	JP	T	GB	FR	ES	ΕP	DE	CA	Country
GRANTED	Granted	GRANTED	GRANTED	GRANTED	GRANTED	GRANTED	GRANTED	GRANTED	Sub Country Case Status
ORD 280974	ORD 104008/91	EPC 91301049.2	EPC 91301049.2	EPC 91301049.2	EPC 91301049.2	ORD 91301049.2	EPC 91301049.2	ORD 2035983	Case Application Type Number
07-Dec-1988	08-Feb-1991	08-Feb-1991	08-Feb-1991	08-Feb-1991	08-Feb-1991	08-Feb-1991	08-Feb-1991	08-Feb-1991	Filing Date
5002981	2760910	0498097	0498097	0498097	2074222	0498097	0498097	2035983	Patent Number
26-Mar-1991	20-Mar-1998	05-Jul-1995	05-Jul-1995	05-Jul-1995	05-Jul-1995	05-Jul-1995	05-Jul-1995	17-Sep-1996	Issue Date
TE		EP							Tax Expi
26-Mar-2008	08-Feb-2011	08-Feb-2011	08-Feb-2011	08-Feb-2011	08-Feb-2011	08-Feb-2011	08-Feb-2011	08-Feb-2011	Expiration Date
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									Agent Agent Ref#

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Division GRER	GRER Graphite Electrode Related	ed.				
Case Number	Attorney	Disclosure Status	Title		Inventors	
016259	FJM	FILED	METHOD OF ON-LINE MONITORING OF AN GULDEN, G ELECTRIC ARC FURNACE AND METHOD OF DENK AL KW	MONITORING OF AN CE AND METHOD OF	GULDEN, G	
	UCAR Carbon Technology Corp		CONTROL		ENERGY, N.W.	
Sub	Case Application	Filing	Patent Issue	Tax Expiration		

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Date issue

Schedule Date

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ORD 2024089-0

27-Aug-1990 2024089

21-Nov-1995

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27-Aug-2005

24-Aug-2010

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ORD PI9004217.4

27-Aug-1990

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Division GRER	ł	Graphite Electrode Related	ited						
Case Number		Attorney	Disclosure Status	Title				Inventors	
016468	•••	FJM	FILED	APPARATI PETROLEI	APPARATUS FOR TREATMENT OF PETROLEUM COKES WITH A PUFFING	MENT OF		ORAC, TH	
	UCAR Cart	UCAR Carbon Technology Corp		INHIBITO	INHIBITOR IN A ROTARY CALCINER	( CALCINI	를 # # # # # # # # # # # # # # # # # # #		
Sub		Case Application	n Filing	Patent	Issue	Tax	Expiration		
Country Case Status	e Status	Type Number		Number	Date	Schedule Date	Date	Agent	Agent Agent Ref#
DE	GRANTED	EPC 91203318.0	0 16-Dec-1991 0491442	0491442	01-Jun-1994		16-Dec-2011		
EG	GRANTED	ORD 760/91	16-Dec-1991	20210	30-Nov-1997		16-Dec-2011		
ĘΡ	GRANTED	ORD 91203318.0	0 16-Dec-1991	0491442	01-Jun-1994		16-Dec-2011		
ES	GRANTED	EPC 91203318.0	16-Dec-1991	0491442	01-Jun-1994		16-Dec-2011		
US -4	GRANTED	CON 390922	15-Feb-1995 5478442	5478442	26-Dec-1995	Œ	15-Feb-2015		

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Division GRER	Graphite Electrode Related	elated					
Case Number	Attorney	Disclosure Status	Title				Inventors
016560	FJM	FILED	IMPROVEN REGULATO	IMPROVEMENT IN ARC FURNACE REGULATOR PERFORMANCE	URNACI NCE		BOWMAN, BB
UCAR	UCAR Carbon Technology Corp	ρτρ					
Country Case Status	Type Number	Date	Number	Date	Schedule	hedule Date	Agent Agent Ref#
CA PENDING	VG ORD 2059062	09-Jan-1992				09-Jan-2012	
DE GRANTED	ED EPC 92200056.7	6.7 09-Jan-1992	69201573.6	08-Mar-1995		09-Jan-2012	
EP GRANTED	ED ORD 92200056.7	6.7 09-Jan-1992	0494720	08-Mar-1995		09-Jan-2012	
FR GRANTED	ED EPC 92200056.7	6.7 09-Jan-1992	0494720	08-Mar-1995		09-Jan-2012	
IT GRANTED	ED EPC 92200056.7	6.7 09-Jan-1992	0494720	08-Mar-1995	EP	09-Jan-2012	
MX GRANTED	ED ORD 9200092	09-Jan-1992	180375	11-Dec-1995		09-Jan-2012	
US GRANTED	ED ORD 639547	10-Jan-1991	5115447	19-May-1992	H	19-May-2009	

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Division GRER	Graphite Electrode Related	elated						
Case Number	Attorney	Disclosure Status	Title				Inventors	
016694	FJM	FILED	METHOD FO	METHOD FOR OPERATING A GRAPHITIZATION FURNACE	G AN ELE	N ELECTRODE	DAGATA, FJ POLITOWICZ, KG	, FJ TCZ, KG
UCAR (	UCAR Carbon Technology Corp	dr						
Sub Country Case Status	Case Application Type Number	tion Filing r Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
US GRANTED		29-Mar-1991 5117439	5117439	26-May-1992	LE	26-May-2009	9	

Wednesday,	Wednesday, November 04, 1998	998	Master	List By Division	ision			Page: 85
Divisio	Division GRER Gra	Graphite Electrode Related	ed				m my man	
Casc Number	A	Attorney	Disclosure Status	Title				Inventors
017188	Z	FJM	FILED	FASTENING ELEMEN ELECTRODE JOINTS	FASTENING ELEMENT FOR SECURING ELECTRODE JOINTS	OR SECUR	ING	BJORNESTAD, JL FRASTACI, M
	UCAR Carbo	UCAR Carbon Technology Corp						HOTCHKISS, OW MONCRIEF, HC
								SMITH, RE WISE, FE
Sub Country Case	e Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expir Schedule Date	Expiration Date	Agent Agent Ref#
BE	PENDING	EPC 94100139.8	07-Jan-1994				07-Jan-2014	
DE	PENDING	EPC 94100139.8	07-Jan-1994				07-Jan-2014	
EP	PENDING	ORD 94100139.8	07=Jan-1994				07-Jan-2014	
ES	PENDING	EPC 94100139.8	07-Jan-1994				07-Jan-2014	
FR	PENDING	EPC 94100139.8	07-Jan-1994				07-Jan-2014	
GB	PENDING	EPC 94100139.8	07-Jan-1994				07-Jan-2014	
Z	PENDING	ORD	08-Dec-1993				08-Dec-2007	
TT	PENDING	EPC 94100139.8	07-Jan-1994				07-Jan-2014	
Ħ	Granted	ORD 006350/94	25-Jan-1994	2781332	15-May-1998		25-Jan-2014	
KR	PENDING	ORD 0689/94	17-Jan-1994					
LU	PENDING	EPC 94100139.8	07-Jan-1994				07-Jan-2014	
MX	GRANTED	ORD 9400373	11-Jan-1994	185080	20-Jun-1997		11-Jan-2014	
ΜY	PENDING	ORD PI9400066	11-Jan-1994					
TW	GRANTED	ORD 83102453	21-Mar-1994	NI086775	21-May-1997			
SN	GRANTED	ORD 153624	17-Nov-1993	5415755	16-May-1995	LE	16-May-2012	2

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Graphite Electrode Related

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Division GRER		Graphite Electrode Related						
Case Number	At	Attorney Dis	Disclosure Status	Title			Inventors	tors
017198	FJM	M	FILED	CONTINUC	CONTINUOUS METHOD FO	CONTINUOUS METHOD FOR INCREASING THE Q.I. CONCENTRATION OF LIQUID TAR	_ <del>7</del>	CHANG, CF GILLESKIE, GL
	UCAR Carbo	UCAR Carbon Technology Corp		FREE TAR				KELLEK, GE LEWIS, IC SHAO, RL
Sub		Case Application	Filing	Patent	Issue	Tax Expiration		
Country Cas	Case Status		Date	Number	Date	Schedule Date	Ag	Agent Agent Ref#
BR	PENDING	ORD PI9601166-1	28-Mar-1996			11-M;	11-Mar-2016 212	
DE	PENDING	EPC 95308207.0	16-Nov-1995			16-Nc	16-Nov-2015	
Ή	PUBLISHED	ORD 95308207.0	16-Nov-1995			16-Nc	16-Nov-2015	
ES	PENDING	EPC 95308207.0	16-Nov-1995			16-Nc	16-Nov-2015	
FR	PENDING	EPC 95308207.0	16-Nov-1995			16-No	16-Nov-2015	
ΙΤ	PENDING	EPC 95308207.0	16-Nov-1995			16-No	16-Nov-2015	
JP	PENDING	ORD 025672/96	13-Feb-1996			LE 13-Fe	13-Feb-2016	
SU	GRANTED	ORD 341395	17-Nov-1994	5534133	09-Jul-1996	LE		
ZA	GRANTED	ORD 962599	01-Apr-1996	96/2599	31-Dec-1996	0i-A <sub>l</sub>	01-Apr-2016	

Division GRER     Graphite Electrode Related       Case     Attorney     Disclosure Status     Title     Inventors       017253     FJM     FILED     FASTENING DEVICE FOR SECURING ELECTRODE JOINTS     FRASTACI, M	Wednesday, November 04, 1998	r 04, 1998	Master I	Master List By Division	Page: 88
ber Attorney Disclosure Status Title  FASTENING DEVICE FOR SECURING ELECTRODE JOINTS	Division GRER	Graphite Electroc	le Related		
FJM FILED FASTENING DEVICE FOR SECURING ELECTRODE JOINTS	Case Number	Attorney	Disclosure Status	Title	Inventors
	017253	FJM	FILED	FASTENING DEVICE FOR SECURING ELECTRODE JOINTS	FRASTACI, M

SN	TW	MY	MX	ΚŖ	JP	IT	GB	FR	ES	EP	DE	CN	CA	BE	Sub Country Case Status
GRANTED	GRANTED	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PENDING	PUBLISHED	PENDING	PUBLISHED	PENDING	PENDING	ase Status
ORD 374937	ORD 85100159	ORD PI9600155	ORD 960232	ORD 698/96	ORD 006811/96	EPC	EPC	EPC	EPC	ORD 96300288.6	EPC	ORD 96104322.9	ORD 2167226	EPC	Case Application Type Number
18-Jan-1995	08-Jan-1996	16-Jan-1996	15-Jan-1996	16-Jan-1996	18-Jan-1996	29-Dec-1995	29-Dec-1995	29-Dec-1995	29-Dec-1995	16-Jan-1996	29-Dec-1995	17-Jan-1996	15-Jan-1996	29-Dec-1995	Filing Date
5575582	NI084090														Patent Number
19-Nov-1996	21-Jan-1997														Issue Date
LE												PA			Tax Schedul
	08-Jan-2016	16-Jan-2016	15-Jan-2016	16-Jan-2016	18-Jan-2016	29-Dec-2015	29-Dec-2015	29-Dec-2015	29-Dec-2015	16-Jan-2016	29-Dec-2015	17-Jan-2016 160	15-Jan-2016	29-Dec-2015	ax Expiration chedule Date
												160			Agent
															Agent Agent Ref#

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Division GRER	Graphite Electrode Related	d						
Case Number	Attorney Di	Disclosure Status	Title				Inventors	
017345	FJM	FILED	PRE-HEAT AMORPHO	PRE-HEATING FURNACE F AMORPHOUS CARBON BO	FOR BAKED ODIES		INTERMILL, AW NAGY, CC	
UCAR C	UCAR Carbon Technology Corp							
Sub Country Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent Agent Ref#	
BE PENDING	EPC	15-May-1996			LE		425	
BR PENDING	ORD PI9602535-2	30-May-1996			LE	30-May-2011 212	212	
CA PENDING	ORD 2177750	30-May-1996			LE	30- <u>Ma</u> y-2016 814	814	
CN Published	ORD 96110080.X	30-May-1996			Ħ		160	
DE PENDING	EPC	15-May-1996			LE		784	
EP PUBLISHED	ED ORD 96303960.7	31-May-1996			LE	31-May-2016 845	845	
ES PENDING	EPC	15-May-1996			LE			
FR PENDING	EPC	15-May-1996			LE		812	
IT PENDING	EPC	15-May-1996			LE		064	
JP PENDING	ORD 136849/96	30-May-1996			LE	30-May-2016 460	460	
MX PENDING	ORD 962055	30-May-1996			Ħ	30-May-2016 612	612	
MY PENDING	ORD P19602065	29-May-1996			LE		805	
PL PENDING	ORD P314521	29-May-1996			LE	29-May-2016 996	996	
RU PENDING	ORD 96110403	30-May-1996			H	30-May-2016 901	901	
US Granted	ORD 454739	31-May-1995	5751759	12-May-1998	LE			

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division			Page: 92
Division GRER	Graphite Electrode Related	rode Related				
Case Number	Attorney	Disclosure Status	Title	I	Inventors	
017389	FJM	Open	GRAPHITE ELE END SURFACES FURNACES	GRAPHITE ELECTRODE WITH SLANTED END SURFACES FOR ELECTRIC-ARC FURNACES		
Remarks: WATCH SERVICE	CH SERVICE					
Sub Country Case Status	Case Applicat Type Number	Case Application Filing Type Number Date	Patent Iss Number Da	Issue Tax Expiration  Date Schedule Date	Agent	Agent Agent Ref#
DE WS FILED	ORD P	ORD P4215897.4				

Wednesday, November 04, 1998	r 04. 1998	Master	List By Division	ion		Page:	e: 93
Division GRER	Graphite Electrode Related	<b>d</b>					
Case Number	Attorney Di	Disclosure Status	Title			Inventors	
017413	FJM	Filed	APPARATUS FOR LEIGRAPHITIZATION (L'ELECTRODE BODIES	APPARATUS FOR LENGTHWISE GRAPHITIZATION (LWG) OF CARBON ELECTRODE BODIES	HWISE OF CARBON	INTERMILL, AW LEHR, DA WISE, FE	
Sub Sub	Case Application	Filing Date	Patent Number	Tssue Date	Tax Expiration	Agent Agent Bef #	
BE FILED		08-Nov-1996				845	
BR FILED	ORD PI9605639-8	20-Nov-1996				212	
CA FILED	ORD 2190680	19-Nov-1996				814	
CN PUBLISIED	SIED ORD 96123339.7	20-Nov-1996				160	
DE FILED	EPC	08-Nov-1996				845	
EG FILED	ORD 1029/96	20-Nov-1996				306	
EP FILED	ORD 96308309.2	18-Nov-1996				845	
ES FILED	EPC	08-Nov-1996				845	
FR FILED	EPC	08-Nov-1996				845	
GB FILED	EPC	08-Nov-1996				845	
IN FILED	ORD	2540/DEL/199 19-Nov-1996				690	
IR Granted	d ORD	08-Nov-1996	25862	07-Mar-1998	08-Nov-2016	16 031	
IT FILED	EPC	08-Nov-1996				845	
JP FILED	ORD 309763/96	20-Nov-1996				460	
KR FILED	ORD 55535/96	20-Nov-1996				588	
MX FILED	ORD 965697	19-Nov-1996				612	

Wednesday,	Wednesday, November 04, 1998	, 1998	Master	Master List By Division	ision			Page: 94
Divisio	Division GRER (	Graphite Electrode Related						
MY	FILED	ORD PI9604796	19-Nov-1996				805	
PL	FILED	ORD	20-Nov-1996				996	
RO	FILED	ORD 96-02174	19-Nov-1996				701	
RU	FILED	ORD 96122394	19-Nov-1996				901	
SA	FILED	ORD	08-Nov-1996				803	
TW	FILED	ORD 86100105	07-Jan-1997				970	
SU	GRANTED	ORD 561369	21-Nov-1995 5631919	5631919	20-May-1997	LE		
ZA	GRANTED	ORD 969732	19-Nov-1996 969732	969732	27-Aug-1997		009	

Wednesday, November 04, 1998	04, 1998	Master I	Master List By Division				Page: 95
Division GRER	Graphite Electrode Related	ited					
Case Number	Attorney	Disclosure Status	Title			Inventors	
030006	FJM	Open	PRODUCTION PITCH	PRODUCTION OF SOLIDS-FREE PITCH	REE COAL TAR	CHANG, CF LEWIS, IC	
UCAR	UCAR Carbon Technology Corp	,				ORAC, TH SHAO, RL	
	· -			Town Tow	Ryniration		
Country Case Status	Type Number		Number	Date Sched	Schedule Date	Agent Agent Ref#	gent Ref #
US PENDING	NG ORD 722469	27-Sep-1996		LE			
WO PENDING	NG ORD US97/16677			TE.			
ZA Granted	d ORD 978432	18-Sep-1997	97/8432	24-Jun-1998 LE	18-Sep-2017		

US Pending ORD 136245	Sub Case /	UCAR Carbon Technology Corp	030019 FJM	Case Number Attorney	Division GRER Graphite Electrode Related	Wednesday, November 04, 1998
	Case Application Type Number	ology Corp		Disc	ctrode Related	
19-Aug-1998	Filing Date		Filed	Disclosure Status		Master ]
	Patent Number		GRAPHITE EI STRESS-RELI	Title		Master List By Division
LE	Issue Tax Date Schedu		GRAPHITE ELECTRODES INCORPORATING STRESS-RELIEVING SLOTS			)n
	Tax Expiration Schedule Date		& ORATING			
	Agent Agent Ref#		BOWMAN, B WELCH, RR	Inventors		
	ent Ref#					Page: 96

Wednesday, November 04, 1998	er 04, 1998	Master	Master List By Division			Page: 97
Division GRSP	Graphite Specialty					
Case Number	Attorney	Disclosure Status	Title		Ĭn	Inventors
013128	FJM	FILED	PROCESS FOR IMPROVED CARBON	IMPROVED ACTIVATED		KAMPE, DJ SARANGAPANI, S
UCA	UCAR Carbon Technology Corp	Corp				3
Sub Country Case Status	Case Application S Type Number	ation Filing er Date	Patent Is Number D	Issue Tax Date Schedul	ax Expiration	Agent Agent Ref#
CA GRANTED	TED ORD		1187860 28	28-May-1985	28-May-2002	
US GRANTED	VITED ORD 393988	30-Jun-1982	4438216	20-Mar-1984 LE	20-Mar-2001	

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division		Page: 98
Division GRSP	Graphite Specialty				
Case Number	Attorney	Disclosure Status	Title		Inventors
013164	FJM	FILED	METAL CURRENT CARRIER FOR ELECTROCHEMICAL CELL ELEC	METAL CURRENT CARRIER FOR ELECTROCHEMICAL CELL ELECTRODES	EDWARDS, LG HOWARD, RA
UCAR	UCAR Carbon Technology Corp	Corp			SARANGAPANI, S
Sub Country Case Status	Case Application Type Number	ation Filing er Date	Patent Issue Number Date	Tax Expiration Schedule Date	on Agent Agent Ref#
US GRANTED	(ED ORD 393390	) 29-Jun-1982 4476002		09-Oct-1984 LE 09-Oct-2001	001

Wednesday, November 04, 1998	ember 04, 1	998	Master	Master List By Division					Page: 99
Division GRSP		Graphite Specialty	The state of the s						
Case Number	A	Attorney	Disclosure Status	Title				Inventors	
013276	핃	FJM	FILED	IMPROVED GAS DIFFUSION	AS DIFFUSIC	)N ELECTRODE		DOWELL, MB	MB
	UCAR Carbo	UCAR Carbon Technology Corp	-tp					PARE D, CJ	2
Sub Country Case Status	Status	Case Application Type Number	ion Filing Date	Patent I	Issue Date	Tax Expi Schedule Date	<b>Expiration Date</b>	Agent	Agent Agent Ref #
CA G	GRANTED	ORD		1217177 2	27-Jan-1987		27-Jan-2004		
							200		

Wednesday, November 04, 1998	, 1998	Master l	Master List By Division	ion			Page: 100
Division GRSP C	Graphite Specialty	У					
Case Number	Attorney	Disclosure Status	Title			Inventors	
013639	FJM	FILED	IMPROVED ELECTROC	IMPROVED PROCESS OF MAKING ELECTROCHEMICAL ELECTRODES AND	_	HOWARD, RA SIROCKY, PS	RA PS
UCAR Ca	UCAR Carbon Technology Corp	y Corp	ELECTROD	ELECTRODES MADE THEREBY			,
Sub	Case Application	lication Filing	Patent	Issue Tax	Tax Expiration		
CA GRANTED	ORD		1221658	12-May-1987	12-May-2004		

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Division GRSP	Graphite Specialty			
Case Number	Attorney	Disclosure Status	Title	Inventors
013676	FJM	FILED	PROCESS FOR MAKING PITCH-FREE	CRISCIONE, JM
			GRAPHITIC ARTICLES	MONTGOMERY, LC
UCAR	UCAR Carbon Technology Corp	orp		
Sub	Case Application	tion Filing		
Country Case Status	Type Number		Number Date Schedule Date	Agent Agent Ref #
CA PENDING	NG ORD 463252	14-Sep-1984		

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division	sion				Page: 102
Division GRSP	Graphite Specialty							
Case Number	Attorney	Disclosure Status	Title				Inventors	
013800	FJM	FILED	OXIDATIO CARBONA	OXIDATION PROHIBITIVE CO	E COATI	COATINGS FOR	SARA, RV	4
UCAR	UCAR Carbon Technology Corp	orp						
Sub	Case Application	ation Filing	Patent	Issue	Tax Expi	Expiration		
CA GRANTED			1228370	20-Oct-1987	JO	OL 20-Oct-2004		o

Wednesday, November 04, 1998	nber 04, 199	<b>S</b>	Master	Master List By Division	sion				Page: 103
Division GRSP		Graphite Specialty							
Case Number	Attı	Attorney	Disclosure Status	Title			Í	Inventors	
014026	FJM	1	FILED	IMPROVEI PROCESS F	IMPROVED NUCLEAR GRAPHI PROCESS FOR MAKING SAME	RAPHITE AND SAME		CRISCIONE, JM MERCURI, RA	IE, JM , RA
U	CAR Carbon	UCAR Carbon Technology Corp							
Sub Country Case Status	ıtus	Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration  Date	Agent	Agent Ref#
CA GR	GRANTED	ORD		1228456	27-Oct-1987	J0	27-Oct-2004		
EP GR	GRANTED	ORD 84308849.3	18-Dec-1984	0146399	11-Jul-1990		18-Dec-2004		
FR GR	GRANTED	EPC 84308849.3	18-Dec-1984	0146399	11-Jul-1990		18-Dec-2004		
GB GR	GRANTED	EPC 84308849.3	.3 18-Dec-1984 0146399	0146399	11-Jul-1990		18-Dec-2004		

Wednes	day, N	Wednesday, November 04, 1998	998		Master	Master List By Division	sion				Page: 104
Di	vision	Division GRSP Gr	Graphite Specialty	y							
Case Number		A	Attorney	D	Disclosure Status	Title				Inventors	
015104		٠	FJM		FILED	PROCESS F CARBON A	PROCESS FOR PRODUCING HIGH DE CARBON AND GRAPHITE ARTICLES	NG HIGH	NSITY	CRISCIONE, JM MONTGOMERY, LC	, JM ERY, LC
		UCAR Carb	UCAR Carbon Technology Corp	Corp							
Sub Country Case Status	Sub Case	Status	Case Application Type Number	lication ber	Filing Date	Patent Number	Issue Date	Tax Scheduk	Expiration edule Date	Agent Agent Ref#	gent Ref#
EP	-	GRANTED	ORD 89107849.5	7849.5	29-Apr-1989	0340697	15-Dec-1993		29-Apr-2009		
FR	<u>.</u>	GRANTED	EPC 8910	89107849.5	29-Apr-1989	0340697	15-Dec-1993		29-Apr-2009		
Œ	<u>.</u>	GRANTED	EPC 8910	89107849.5	29-Apr-1989	0340697	15-Dec-1993		29-Api-2009		
T	<u>.</u>	GRANTED	EPC 8910	89107849.5	29-Apr-1989	0340697	15-Dec-1993	EP	29-Apr-2009		
Ħ	<u>.</u>	GRANTED	ORD 113514/89	14/89	02-May-1989	2505880	02-Apr-1996		02-May-2009		
US	1_	GRANTED	CIP 189762	62	03-May-1988 4847021	4847021	11-Jul-1989	H	11-Jul-2006		

Wednesday, November 04, 1998	r 04, 1998	Master ]	Master List By Division	sion				Page: 105
Division GRSP	Graphite Specialty							
Case Number	Attorney	Disclosure Status	Title			I.	Inventors	
015147	FJM	FILED	IMPROVED CASTABLE	IMPROVED BINDER SYSTEM CASTABLE CERAMICS	TEM FOR	7	MANDORF, V	
UCAI	UCAR Carbon Technology Согр	ир						
Sub Country Case Status	Case Application Type Number	ition Filing r Date	Patent Number	Issue Date	Tax Expi	Expiration Date	Agent Agent Ref#	Ref#
	ון כישור 	13-Dec-1985 4735974	4735974	05-Anr-1988	H	LE 05-Apr-2005		

Wednesday,	Wednesday, November 04, 1998	98	Master	Master List By Division	ision				Page: 106
Division	Division GRSP Grap	Graphite Specialty							
Case Number	At	Attorney	Disclosure Status	Title			_	Inventors	
015656	FJM	<u>.</u>	FILED	TOPICAL T	TOPICAL TREATMENT FOR SEALING CARBON AND GRAPHITE SURFACES	OR SEALING		NOE, JB	
	UCAR Carbo	UCAR Carbon Technology Corp							
Sub Country Case Status	e Status	Case Application Type Number	n Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA -1	GRANTED	ORD 2003653.2	22-Nov-1989	2003653	09-Jul-1996		22-Nov-2009 Sim	Sim	
ΕP	GRANTED	ORD 88305478.5	5 15-Jun-1988	0296757	01-Dec-1993		15-Jun-2008		
EP i	OPPOSITION	ORD 88305478.5	5 15-Jun-1988	0296757	01-Dec-1993		15-Jun-2008		
IT	GRANTED	EPC 88305478.5	5 15-Jun-1988	0296757	01-Dec-1993	Η̈́	15-Jun-2008		
IT I	GRANTED	EPC 89312144.2	22-Nov-1989	0370799	17-Mar-1993	甲	22-Nov-2009		
US	GRANTED	ORD 274778	23-Nov-1988 5019426	5019426	28-May-1991	H	28-May-2008		

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Division GRSP		Graphite Specialty							
Case Number		Attorney	Disclosure Status	Title				Inventors	
016258		FJM	FILED	A PROCES	A PROCESS FOR ISOSTATIC MOLDING	TIC MOLE		MILLER, DJ	Ŋ
	UCAR Ca	UCAR Carbon Technology Corp	Ţ						
Sub Status	Status	Case Application Type Number	ion Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
DE	GRANTED	EPC 91118812.6	2.6 05-Nov-1991	0540771	18-Jan-1995		05-Nov-2011		
甲	GRANTED	ORD 91118812.6	2.6 05-Nov-1991 0540771	0540771	18-Jan-1995		05-Nov-2011		
Ŗ	GRAN'I'EÜ	) EPC 91118812,6	05-Nov-1991	0540771	18-Jan-1995		05-Nov-2011		
JP	PENDING	ORD 318449/91	)1 06-Nov-1991						
SN	GRANTED	ORD 495640	19-Mar-1990 5107437	5107437	21-Apr-1992	Η	21-Apr-2009		

Wednesday, November 04, 1998	ber 04, 1998		Master	Master List By Division	sion				Page: 108
Division GRSP	P Graphite Specialty	Specialty							
Casc Number	Attorney	еу	Disclosure Status	Title				Inventors	
016397	FJM		FILED	TERNARY BRA	TERNARY BRAZING ALLOY FOR CARBON OR GRAPHITE	OY FOR (		SARA, RV	1
UC	UCAR Carbon Technology Corp	chnology Сотр	Ū						
Sub Country Case Status		Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
		Onl (22, 100	21 Dec 1990 \$102621	(1006)	07-Apr-1993	T I	07_Anr_2009		

Wednesday, November 04, 1998	ember 04, 19	998	Master	Master List By Division	ision				Page: 109
Division GRSP		Graphite Specialty							
Case Number	Aı	Attorney	Disclosure Status	Title				Inventors	
016440	Z	FJM	FILED	PROCESS AREA AC	PROCESS FOR PRODUCING AREA ACTIVATED CARBOI	ON G HIGH S	HIGH SURFACE N	BALL, DR GREINKE, RA	RA
	UCAR Carbo	UCAR Carbon Technology Corp	-5					LEWIS, IC	
Sub		Case Application	on Filing	Patent	Issue	Tax	Expiration		
Country Case Status	Status	Type Number	Date	Number	Date	Schedule Date	Date	Agent	Agent Agent Ref#
CA (	GRANTED	ORD 2047474	19-Jul-1991	2047474	03-Sep-1996		19-Jul-2011		
DE (	GRANTED	EPC 91201910.6	,6 19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
EP (	GRANTED	ORD 91201910.6	.6 19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
FR (	GRANTED	EPC 91201910.6	.6 19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
GB	GRANTED	EPC 91201910.6	.6 19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
JP I	PENDING	ORD 203324/91	l 19-Jul-1991						
US	GRANTED	ORD 554810	20-Jul-1990	5102855	07-Apr-1992	LE	07-Apr-2009		

Wednesday, November 04, 1998	yember 04, 1	998	Master l	Master List By Division	ion				Page: 110
Division GRSP		Graphite Specialty							
Case Number	A	Attorney	Disclosure Status	Title				Inventors	
016593	Ţ.	FJM	FILED	HIGH SURFACE AREA ACTIVATED CARBON	HIGH SURFACE AREA SULFUR-CONTAINING GREINKE, RA ACTIVATED CARBON LEWIS, IC	LFUR-CON	TAINING (	GREINKE, LEWIS, IC	RA
	UCAR Carb	UCAR Carbon Technology Corp	ð						
Sub Country Case Status	Status	Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
DE	PENDING	ORD P4314461.6	6 03-May-1993		:	_	03-May-2013		
P	PENDING	ORD 104008/93	3 30-Apr-1993						
US -2	GRANTED	CON 670142	27-Jun-1996 5639707	5639707	17-Jun-1997	믒			

Wednesday, l	Wednesday, November 04, 1998	998	Master	Master List By Division	011				Page: 111
Division	Division GRSP Gra	Graphite Specialty							
Case Number	Α	Attorney	Disclosure Status	Title			I	Inventors	
016828	-27	FJM	FILED	A GLASSY (	A GLASSY CARBON COATED GRAPHITE LEWIS, IC COMPONENT FOR USE IN THE PRODUCTION MILLER, DJ	ED ORAI	PHITE I	LEWIS, IC MILLER, D	
	UCAR Carb	UCAR Carbon Technology Corp	Corp	OF SILICON	OF SILICON CRYSTAL GROWTH	HTWO	<b>.</b>	PIRRO, TA	•
Sub		Case Application		Patent		Tax Expi	Expiration	- -	
DE PENDI	PENDING	EPC 92114513.2	513.2 26-Aug-1992				26-Aug-2012		
尹	PENDING	EPC 92114513.2	513.2 26-Aug-1992				26-Aug-2012		
II	PENDING	EPC 92114513.2	S13.2 26-Aug-1992				26-Aug-2012		
JP	PENDING	ORD 230586/92	6/92 28-Aug-1992						
US -2	GRANTED	CON 434495	5 04-May-1995 5476679	5476679	19-Dec-1995	H	04-May-2015		

Wednesday, November 04, 1998	r 04, 1998	Master	Master List By Division	ion		10 m		Page: 112
Division GRSP	Graphite Specialty							
Case Number	Attorney	Disclosure Status	Title				Inventors	
016850	FJM	FILED	PITCH BASI AND GRAPI	PITCH BASED IMPREGNANT FOR CARBON AND GRAPHITE AND METHOD	NT FOR CA		LEWIS, IC PIRRO, TA	Δ ()
UCAR	UCAR Carbon Technology Corp	ир						
Sub	Case Application	tion Filing	Patent	Issue	Тах Ехріі	Expiration		
US -2 GRANTED	TED CON 504187	19	5501729	ar-1996	H			

FJM Open METHODS FOR FORMING TITANIUM- SILICON CARBIDE COATINGS ON CARBONACEOUS ARTICLES	Wednesday, November 04, 1998  Division GRSP Graphi  Case  Number Attor	ember 04, 1998  RSP Graphite Specialty  Attorney	Master ] Disclosure Status	Master List By Division  are Status Title		Inventors	
FJM Open METHODS FOR FORMING TITANIUM- SILICON CARBIDE COATINGS ON CARBONACEOUS ARTICLES	Case Number	Attorney	Disclosure Status	Title		=	ventors
CARBONACEOUS ARTICLES	017199	FJM	Open	METHODS FOR FORM	AING TITANIUM-	מ מ	SARA, RV
		UCAR Carbon Technology	Corp	CARBONACEOUS AR	TICLES	ŗ	, id
( ase Application Filing Fatent Issue 12X	Country Case S			) ir	dule		Agent Agent Ref#
Number Date	US U	UNFILED ORD			LE		

Wednesday, November 04, 1998	r 04, 1998	Master	Master List By Division	ion			Page: 114
Division GRSP	Graphite Specialty						
Case Number	Attorney	Disclosure Status	Title		i.	L L	Inventors
030001	FJM	Open	CHEMICAL ELECTROC	CHEMICALLY MODIFIED GRAPHITE FOR ELECTROCHEMICAL CELLS	GRAPHITE LS		GREINKE, RA LEWIS, IC
UCAR	UCAR Carbon Technology Corp	þ					
Sub Country Case Status	Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#
DE Published	ed ORD 19722487.3	'.3 28-May-1997			LE 28.	28-May-2016	
JP PENDING	NG ORD 138974/97	7 28-May-1996			LE 28.	28-May-2016	
US Granted	ORD 654660	29-May-1996 5756062	5756062	26-May-1998	H		

Wednesday, N	Wednesday, November 04, 1998	998		Master	Master List By Division	sion					Page: 115
Division GRSP		Graphite Specialty	alty								
Case Number	A	Attorney	Dis	Disclosure Status	Title				Inventors	1	
030002	ן בביל ב	FJM		0pen	COMPACTI ELECTROC	COMPACTED CARBON FOR ELECTROCHEMICAL CELLS	OR LIS		GREINKE, RA LEWIS, IC	RA	
	UCAR Carbon Technology Corp	on Technolo	ey Corp								
Sub Country Case Status	e Status	Case Applicat Type Number	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#	**
DE	PENDING	EPC		14-Nov-1996							
ĘP	PUBLISHED	ORD %	ORD 96308639.2	29-Nov-1996							
GB	PENDING	EPC		14-Nov-1996							
æ	PENDING	ORD 320156/96	0156/96	29-Nov-1996							
US	GRANTED	ORD 654644	4644	29-May-1996 5677082	5677082	14-Oct-1997	H				

Wednesday, November 04, 1998	r 04, 1998	Master	Master List By Division	ision			Page: 116
Division GRSP	Graphite Specialty						
Case Number	Attorney	Disclosure Status	Title			Inventors	
030003	FJM	0pen	HETEROA ELECTRO	TOM INCORPO	HETEROATOM INCORPORATED COKE FOR ELECTROCHEMICAL CELLS	GREINKE, RA LEWIS, IC	
UCAF	UCAR Carbon Technology Corp	73					
Sub Country Case Status	Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expiration Schedule Date	Agent Agent Ref#	1 <del>11:</del>
DE GRANTED	TED ORD 19703954.5	.5 03-Feb-1997	19703954	04-Dec-1997	IH		
JP PENDING	NG ORD 022949/97	7 05-Feb-1997			H		
US GRANTED	TED ORD 654661	29-May-1996 5639576	5639576	17-Jun-1997	ក		

Wednesday, November 04, 1998	ember 04, 19	98	Master ]	Master List By Division	ion	1, 40, 11, 11, 11, 11, 11, 11, 11, 11, 11, 1		Page: 117
Division NCB		Not Current Business	A COMMITTED TO A COMM	de mater commenden amenden amende met met met				
Case Number	At	Attorney	Disclosure Status	Title			Inventors	
010606	FJM	X	FILED	OXIDATION ABRADABI	OXIDATION RESISTANT POR( ABRADABLE SEAL MEMBER	OROUS ER FOR HIGH	SARA, RV	
	UCAR Carbo	UCAR Carbon Technology Corp		TEMPERAT	TEMPERATURE SERVICE			
Sub Country Case Status	tatus	Case Application Type Number	on Filing Date	Patent Number	Issue Tax Date Sche	Tax Expiration Schedule Date	Agent A	Agent Agent Ref#
CA G	GRANTED	ORD		1097102	10-Mar-1981	10-Mar-1998		
US -1 G	GRANTED	CON		4155755	22-May-1979	22-May-1996		
US -2 G	GRANTED	CON		4251272	17-Feb-1981	17-Feb-1998		

Wednesday, November 04, 1998	r 04, 1998	Master	Master List By Division	sion				
Division NCB	Not Current Business	ness						
Case Number	Attorney	Disclosure Status	Title				Inventors	
010644	FJM	FILED	NITROGEN ION BINDI	NITROGEN LINKED CYCLIC POLYETHER ION BINDING POLYMERIC LIQUID	LIC POLYE	r	FROST, LW	×
UCAI	UCAR Carbon Technology Corp	/ Corp	PURIFICAT	PURIFICATION MATERIAL	É,			
Sub Country Case Status	Case Application Type Number	lication Filing lber Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#	Agent I
CA GRANTED	CHT	Addition	1045747	02-Jan-1979		02-Jan-1996		

Wednesday, November 04, 1998	er 04, 1998	Master ]	Master List By Division	iion			Page: 119
Division NCB	Not Current Business	ness					
Case Number	Attorney	Disclosure Status	Title		Ir	Inventors	
010661	FJM	FILED	HIGH STRE	HIGH STRENGTH CAST MODULES FOR SUPPORTING REVERSE OSMOSIS	S FOR	MEIER, JF SMITII, JDB	
UCA	UCAR Carbon Technology Corp	/ Corp	MEMBRANES	ES			
Sub Country Case Status	Case Application  Type Number	lication Filing	Patent Number	Issue Tax Expi Date Schedule Date	Expiration le Date	Agent Agent Ref#	ef #
CA GRA	GRANTED ORD		1083496	12-Aug-1980	12-Aug-1997		

Wednesday, November 04, 1998	er 04, 1998	Master l	Master List By Division		Page: 120
Division NCB	Not Current Business	SS			
Case Number	Attorney	Disclosure Status	Title		Inventors
011326	FJM	FILED	STRESS RELIEVING OF METALS/CERAMIC ABRADABLE SEALS	METALS/CERAMIC	ELBERT, RJ SARA, RV
UCA	UCAR Carbon Technology Corp	) Orp			
Sub Country Case Status	Case Application s Type Number	ation Filing er Date	Patent Issue Number Date	Tax Expiration Schedule Date	Agent Agent Ref#
CA GRANTED	TED		1104800 14-Jul-1981	14-Jul-1998	
US GRANTED	VTED ORD		4194673 25-Mar-1980	) 25-Mar-1997	)7

Wednesday, November 04, 1998	er 04, 1998	Master	Master List By Division		P	Page: 121
Division NCB	Not Current Business	ısiness		And		
Case Number	Attorney	Disclosure Status	Title		Inventors	
011352	FJM	FILED	ELECTROLYTIC CELL BOTTOM BARRIER FORMED FROM EXPANDED GRAPHITE	OM BARRIER GRAPHITE	VADLA, II WILDER, HI	
UC.	UCAR Carbon Technology Corp	ogy Corp				
Kej	Keyword(s):					
GR	GRAFOIL					
Sub Country Case Status		Case Application Filing Type Number Date	Patent Issue Number Date	Tax Expiration Schedule Date	Agent Agent Ref#	##
US GRA	GRANTED ORD		4175022 20-Nov-1979	20-Nov-1996		

Wednesday, November 04, 1998	lovember 04, 1	998	Master	Master List By Division	sion				Page: 122
Division NCB		Not Current Business				'			
Case Number	A	Attorney	Disclosure Status	Title				Inventors	
012239	<b>'</b>	FJM	FILED	DEFORMA STRESS RI	DEFORMATION PROCESS FOR PRODU STRESS RELIEVED METAL/CERAMIC	FOR PRO	CING	SARA, RV	7
	UCAR Carb	UCAR Carbon Technology Corp		ABRADABLE SEALS	LE SEALS				
		· ·				3			
Sub Country Case Status	e Status	Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
CA	GRANTED	ORD		1151698	09-Aug-1983		09-Aug-2000		;
CA -1	GRANTED	DIV		1163284	06-Mar-1984		06-Mar-2001		
떕	GRANTED	ORD 79105272.3	3 19-Dcc-1979 0012995	0012995	16-Feb-1983		19-Dec-1999		
US	GRANTED	ORD		4243169	06-Jan-1981		06-Jan-1998		
US -1	GRANTED	DIV	24-Jul-1980	4379812	12-Apr-1983	N <sub>1</sub>	12-Apr-2000		

Wednesday, No	Wednesday, November 04, 1998	Master	Master List By Division	Page: 123
Division SCS	SCS Spray Cool System			
Case Number	Attorney	Disclosure Status	Title	Inventors
015720	FJM	FILED	FURNACE COOLING SYSTEM AND METHOD ENGSTROM, RJ	ENGSTROM, RJ
				HEGGART, RG
	UCAR Carbon Technology Corp	orp		MCCLINTOCK, WK
	Kcyword(s):			
	SPRAY COOL SYSTEM			

Country Case Status F DE H CA BR ΒE AU ŢΫ́ GRANTED MAINTAINED ORD 85905348.0 GRANTED EPC DIV ORD 547797 EPC ORU) PCT EPC PCT ORD Type Number Case Application EPC 85905348.0 EPC 85905348.0 PCT 85905348.0 EPC 85905348.0 85905348.0 P18506980.9 85905348.0 557110 85905348.0 15-Oct-1985 Filing Date 0197137 0197137 547797 0197137 0197137 0197137 0197137 592957 59101 557110 0197137 PI8506980.9 237447 **Patent** 1257473 Number 25-Sep-1990 01-Aug-1990 12-Dec-1990 26-Aug-1987 18-Jul-1989 29-Jul-1988 Date Issue 12-Dec-1990 12-Dec-1990 12-Dec-1990 12-Dec-1990 14-Jan-1987 12-Dec-1990 12-Dec-1990 12-Dec-1990 Tax Schedule Date 7 70 四 15-Oct-2005 26-Aug-2007 14-Jan-2007 15-Oct-2005 15-Oct-2005 29-Jul-2003 Expiration 15-Oct-2005 15-Oct-2005 15-Oct-2005 15-Oct-2000 15-Oct-2005 15-Oct-2005 15-Oct-2005 18-Jul-2006 Agent Agent Ref #

Wednes	Wednesday, November 04, 1998	998	Master	Master List By Division	ision			Page: 124
Di	Division SCS Spr	Spray Cool System						
Ħ	GRANTED	ORD	10-Oct-1985	164917	31-Jul-1989		10-Oct-1999	
T	GRANTED	EPC 85905348.0	15-Oct-1985	0197137	12-Dec-1990	ΕP	15-Oct-2005	
JP	GRANTED	PCT 504735/85	15-Oct-1985	1662032	19-May-1992		15-Oct-2005	
KR	GRANTED	PCT	15-Oct-1985	54670	16-Sep-1992	OL	15-Oct-2005	
LU	GRANTED	EPC 85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005	
N.	GRANTED	EPC 85905348.0	15-Oct-1985	0197137	12-Dec-1990	10	15-Oct-2005	
NO	GRANTED	PCT	15-Oct-1985	169198	20-May-1992		15-Oct-2005	
SE	GRANTED	EPC 85905348.0	15-Oct-1985	0197137	12-Dec-1990	ΕP	15-Oct-2005	
SU	GRANTED	ORD 900168	08-Aug-1986	4715042	22-Dec-1987	H	22-Dec-2004	
SN	-1 GRANTED	DIV 136692	22-Dec-1987	4813055	14-Mar-1989	LΕ	14-Mar-2006	
VE	PENDING	ORD 1746/85	31-Oct-1985				31-Oct-2005	

Wednesday, November 04, 1998	04, 1998	Master	Master List By Division	sion				Page: 125
Division SCS	Spray Cool System							
Case Number	Attorney	Disclosure Status	Title				Inventors	
015847	FJM	FILED	COMBINATION I	COMBINATION LEFT AND RIGHT HANDED FURNACE ROOF	D RIGHT H	ANDED	MINER, FH SIFFER, AM	M H
UCAR	UCAR Carbon Technology Corp							
Keyword(s):	rd(s):							
SPRAY	SPRAY COOL SYSTEM							
Country Case Status	Type Number	Date	Number	Date	Schedule Date	Date	Agent	Agent Ref#
CA GRANTED	D ORD		1332069	20-Sep-1994	OL 2	20-Sep-2011		
DE GRANTED	ED EPC 89113025.4	15-Jul-1989	0367906	27-Oct-1993		15-Jul-2009		
EP GRANTED	ED ORD 89113025,4	15-Jul-1989	0367906	27-Oct-1993	_	15-Jul-2009		
ES GRANTED	ED EPC 89113025.4	15-Jul-1989	2045283	27-Oct-1993	_	15-Jul-2009		
FR GRANTED	ED EPC 89113025.4	15-Jul-1989	0367906	27-Oct-1993		15-Jul-2009		
JP GRANTED	ED ORD 185855/89	18-Jul-1989	1982930	08-Feb-1995		18-Jul-2009		
MX GRANTED	ED ORD	18-Jul-1989	165492	13-Nov-1992		18-Jul-2009		
US GRANTED	ED ORD 259898	19-Oct-1988	4849987	18-Jul-1989	LE ]	18-Jul-2006		
ZA GRANTED	ED ORD 89/5475	18-Jul-1989	89/5475	25-Jul-1990		18-Jul-2009		

Wednesday, November 04, 1998	er 04, 1998	Master I	Master List By Division	Page: 126
Division SCS	Spray Cool System			
Case Number	Attorney	Disclosure Status	Title	Inventors
015848	FJM	FILED	IMPROVED COOLING SYSTEM AND METHOD FOR MOLTEN MATERIAL	BURWELL, WH
UCA	UCAR Carbon Technology Corp	d.	HANDLING VESSELS	
Key	Keyword(s):			
SPR	SPRAY COOL SYSTEM			

TW GR	RU GR	PL GR	MX GR	KR GR	JP GR	IN GR	GB GR	EP -I OP	EP GR	DE GR	CN Gr	CA GR	AR GR	Sub Country Case Status
GRANTED	GRANTED	GRANTED	GRANTED	GRANTED	GRANTED	GRANTED	GRANTED	OPPOSITION	GRANTED	GRANTED	Granted	GRANTED	GRANTED	atus
ORU	ORD	ORD	ORD	ORD 88-17937	ORD 335714/88	ORD	EPC 88312270.7	ORD 88312270.7	ORD 88312270.7	EPC 88312270.7	ORD 89100163	ORD	ORD	Case Application Type Number
	05-Jan-1989	23-Jan-1989	15-Dec-1988	30-Dec-1988	28-Dec-1988	09-May-1988	23-Dec-1988	23-Dec-1988 0335042	23-Dec-1988	23-Dec-1988	10-Jan-1989			Filing Date
NI-41225	1739861	161418	165295	67764	2583301	172743	0335042	0335042	0335042	0335042	38990	1317103	242523	Patent Number
20-Dec-1990	07-Jun-1992	19-Jan-1994	04-Nov-1992	17-Nov-1993	21-Nov-1996	05-Aug-1994	15-Dec-1993	15-Dec-1993	15-Dec-1993	15-Dec-1993	22-Nov-1997	04-May-1993	30-Apr-1993	Issue Date
				OL							OP	OL		Tax Expi Schedule Date
11-Sep-2005	05-Jan-2009	23-Jan-2009	15-Dec-2008	30-Dec-2008		09-May-2002	23-Dec-2008	23-Dec-2008	23-Dec-2008	23-Dec-2008	10-Jan-2004	04-May-2010	30-Apr-2008	Expiration Date
														Agent
														Agent Agent Ref#

US GRANTED ORD 165609	Division SCS Spray Cool System	Wednesday, November 04, 1998	
08-Mar-1988 4815096		Master List By Division	
21-Mar-1989		ivision	10,100,100,100,100,100,100,100,100,100,
H			
21-Mar-2006		Page: 12	
		127	

Wednesday, November 04, 1998	er 04, 1998	Master ]	Master List By Division		Page: 128
Division SCS	Spray Cool System	A			
Case					
Number	Attorney	Disclosure Status	Title	Inventors	
016709	FJM	FILED	COOLING SYSTEM FOR FURNACE ROOF HAVING A REMOVABLE DELTA	ARTHUR, MT MINER, FH	
UCA	UCAR Carbon Technology Corp	dr			
Key	Keyword(s):				
SPR	SPRAY COOL SYSTEM				

Sub Country Case Status	se Status	Case Type	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#
AT	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995	EP	17-Jan-2012	
BE	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
СН	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
2	PENDING	ORD	ORD 92100328	17-Jan-1992			OP	17-Jan-2007	
DE	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
DK	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995	ЕP	17-Jan-2012	
EP	GRANTED	ORD	ORD 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
ES	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
FR	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
GB	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
GR	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	
TI	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995	ΕP	17-Jan-2012	
JP	PENDING	ORD	ORD 005689/92	16-Jan-1992					
LU	GRANTED	EPC	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995		17-Jan-2012	

Wednesday,	Wednesday, November 04, 1998	998	Master	Master List By Division	sion			Page: 129
Division SCS		Spray Cool System						
ΜX	GRANTED	ORD 9200219	17-Jan-1992	178843	21-Jul-1995		17-Jan-2012	
ZI.	GRANTED	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995	ΕP	17-Jan-2012	
RU	GRANTED	ORD 5010774	17-Jan-1992	2065554	20-Aug-1996		17-Jan-2012	
SE	GRANTED	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995	EP	17-Jan-2012	
TW	GRANTED	ORD		NI-63118	01-Dec-1993		11-Jul-2008	
S	GRANTED	ORD 676528	28-Mar-1991	5115184	19-May-1992	LE	19-May-2009	
ZA	GRANTED	ORD 92/0356	17-Jan-1992	92/0356	25-Nov-1992		17-Jan-2012	

Wednesday, N	Wednesday, November 04, 1998	98	Master	Master List By Division	sion				Page: 130
Division SCS		Spray Cool System		:					
Case Number	Att	Attorney	Disclosure Status	Title			<b>-</b>	nventors	
017069	FJM	<u> </u>	FILED	WATCH SE PUBLICAT	WATCH SERVICE ON GERMAN PUBLICATION DE 4103508	RMAN 8			
	UCAR Carbor	UCAR Carbon Technology Corp	Ţ						
	Keyword(s):								
	SPRAY COOL SYSTEM	L SYSTEM							
Sub Country Case Status	Status	Case Application Type Number	ion Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent	Agent Agent Ref#
BR	OPPOSITION	OPPOSITION ORD 9204119-1	1 17-Nov-1993 9204119-1	9204119-1	25-Aug-1998		17-Nov-2013		TO MARKET THE PROPERTY OF THE
DE WS	WS PENDING	ORD	11-Nov-1992				11-N <sub>0</sub> v-2012		

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Division SCS Sp	Spray Cool System							
Case Number	Attorney	Disclosure Status	Title				Inventors	
017070 I	FJM	FILED	DEVICE FO IN SPRAY (	DEVICE FOR RELIEF OF THERMAL STRESS IN SPRAY COOLED FURNACE ELEMENTS	THERMAI IACE ELE	STRESS	ARTHUR, MT ROBERTS, GR	3.7
UCAR Car	UCAR Carbon Technology Corp	3						
Keyword(s):	s):							
SPRAY CC	SPRAY COOL SYSTEM							
Country Case Status	Type Number		Number	Date	Schedule Date	Date	Agent Agen	Agent Ref #
AR Granted	ORD 326998	22-Dec-1993	251508	02-Feb-1998		22-Dec-2013		
DE Granted	EPC 93203637.8	.8 22-Dec-1993	69318272	29-Apr-1998		22-Dec-2013		
FR PENDING	EPC 93203637.8	.8 22-Dec-1993				22-Dec-2013		
GB PENDING	EPC 93203637.8	.8 22-Dec-1993				22-Dec-2013		
ID PENDING	ORD P-007310	23-Dec-1993				23-Dec-2009		
IT GRANTED	EPC 93203637.8	.8 22-Dec-1993	21356/BE/98	21356/BE/98 01-Apr-1998		22-Dec-2013		
JP PENDING	ORD 348097/93	3 24-Dec-1993						
KR PENDING	ORD 28983/93	22-Dec-1993						
MX GRANTED	ORD 9400216	03-Jan-1994	185077	20-Jun-1997		03-Jan-2014		
US GRANTED	ORD 995089	23-Dec-1992	5327453	05-Jul-1994	LE	05-Մա1-2011		

Wednesday, November 04, 1998	er 04, 1998	Master	Master List By Division		Page: 132
Division SCS	Spray Cool System				
Case Number	Attorney	Disclosure Status	Title	Inventore	
017106	FJM	FILED	DEVICE FOR LIFTING AND MOVING THE ROOF OF A SPRAY COOLED FURNACE	ARTHUR, MT MINER, FH	
UCA	UCAR Carbon Technology Corp	orp			
l ii					

Wednesday, November 04, 1998	er 04, 1998		Master	Master List By Division	sion			Pa	Page: 132
Division SCS	Spray Cool System	ystem			THAT THE TAX T				
Case Number	Attorney	Disc	Disclosure Status	Title				Inventors	
017106	FJM		FILED	DEVICE FO ROOF OF A	DEVICE FOR LIFTING AND MOVING THE ROOF OF A SPRAY COOLED FURNACE	ND MOVING T		ARTHUR, MT MINER, FH	
UCA	UCAR Carbon Technology Corp	ology Corp							
Key	Keyword(s):								
SPR	SPRAY COOL SYSTEM	EM							
Sub Country Case Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax   Schedule	Expiration Date	Agent Agent Ref#	
AR GRANTED	ORD	327441	17-Feb-1994	250611	29-Apr-1997				
AT GRANTED	EPC	94200351.8	17-Feb-1994	E157161	25-Feb-1998		17-Feb-2014		
BE PENDING	EPC	94200351.8	17-Feb-1994	0611939			17-Feb-2014		
BR PENDING	ORD	P19400593.1	17-Feb-1994				17-Feb-2009		
CA PENDING	ORD	2115868	17-Feb-1994				17-Feb-2014		
CH PENDING	EPC	94200351.8	17-Feb-1994				17-Feb-2014		
DE PENDING	EPC	94200351.8	17-Feb-1994	0611939			17-Feb-2014		
DK PENDING	EPC	94200351.8	17-Feb-1994				17-Feb-2014		
EP GRANTED	ORD	94200351.8	17-Feb-1994	0611939	20-Aug-1997		17-Feb-2014		
ES GRANTED	EPC	94200351.8	17-Feb-1994	0611939	21-Oct-1997		17-Feb-2014		
FR GRANTED	EPC	94200351.8	17-Feb-1994	0611939	20-Aug-1997		17-Feb-2014		
GB PENDING	EPC	94200351.8	17-Feb-1994				17-Feb-2014		
GR Granted	EPC	970402571	17-Feb-1994	3024930	03-Oct-1997		17-Feb-2014		
ID PENDING	ORD	P-00243	17-Feb-1994				17-Feb-2010		

Wednesday,	Wednesday, November 04, 1998	)98	Master	Master List By Division	sion			Page: 133
Divisio	Division SCS Spra	Spray Cool System	a de la Bonnadare de receptor de la constante					
Ħ	PENDING	EPC 94200351.8	17-Feb-1994	E75934			17-Feb-2014	
二	GRANTED	EPC 94200351.8	17-Feb-1994	26170/BE/97	26170/BE/97 07-Aug-1997			
₽	PENDING	ORD 019405/94	16-Feb-1994					
Ş	PENDING	ORD 2782/94	17-Feb-1994					
LU	PENDING	EPC 94200351.8	17-Feb-1994				17-Feb-2014	
MC	PENDING	EPC 94200351.8	17-Feb-1994				17-Feb-2014	
MY	PENDING	ORD P19400365	17-Feb-1994					
NI	GRANTED	EPC 94200351.8	17-Feb-1994	0611939	20-Aug-1997		17-Feb-2014	
PT	GRANTED	EPC 94200351.8	17-Feb-1994	0611939	18-Sep-1997		17-Feb-2014	
SE	GRANTED	EPC 94200351.8	17-Feb-1994	0611939	20-Aug-1997		17-Feb-2014	
H	PENDING	ORD 021574	17-Feb-1994				17-Feb-2014	
TW	PUBLISHED	ORD 83102466	19-Mar-1994	NI071701			19-Mar-2014	
SU	GRANTED	ORD 019203	18-Feb-1993 5444734	5444734	22-Aug-1995	H	22-Aug-2012	

Wednesday, November 04, 1998	vember 04, 19	98		Master	List By Division	ion				Page: 134
Division SCS		Spray Cool System	em							
Case Number	Atı	Attorney	Disc	Disclosure Status	Title				Inventors	
017148	FJM	\$		FILED	SPRAY COO	SPRAY COOLED HOOD SPRAY FOR HANDLING HOT GASES FROM A	RAY FOI	~	ARTHUR, MT	
	UCAR Carbon Technology Corp	n Technolog	у Согр		METALLUR PNEUMATI METAL	METALLURGICAL VESSEL PNEUMATIC PROCESSING METAL	L UTILIZING G OF MOLTEN	Z	ROBERTS, GR	
	Keyword(s):									
	SPRAY COOL SYSTEM	L SYSTEM								
Sub Country Case	Status	Type Nu	Application Number	Date	Number	Date Date	Schedule Date	Date Date	Agent Agent Ref#	Ref#
ΑT	PENDING	EPC 941	94105308,4	06-Apr-1994				06-Apr-2014		
ΑU	GRANTED	ORD 593	59343/94	07-Apr-1994	664526	16-Nov-1995		07-Apr-2014		
BR I	PENDING	ORD PI9	PI9401436-1	07-Apr-1994				07-Apr-2009		
CA I	PENDING	ORD 212	2120794	07-Apr-1994				07-Apr-2014		
CN	Granted	ORD 941	94105287.7	07-Apr-1994	1039656	13-May-1998	PA	07-Apr-2014		
DE 1	PENDING	EPC 941	94105308.4	06-Apr-1994				06-Apr-2014		
EP 1	PENDING	ORD 941	94105308.4	06-Apr-1994				06-Apr-2014		
FR	PENDING	EPC 941	94105308.4	06-Apr-1994				06-Apr-2014		
GB 1	PENDING	EPC 941	94105308.4	06-Apr-1994				06-Apr-2014		
GR I	PENDING	EPC 941	94105308.4	06-Apr-1994				06-Apr-2014		
IT	PENDING	EPC 941	94105308.4	06-Apr-1994				06-Apr-2014		
JP	Granted	ORD 069	069292/94	07-Apr-1994	2804228	17-Jul-1998		07-Apr-2014		
KR ]	PENDING	ORD 723	7239/94	07-Apr-1994						

Wednesday,	Wednesday, November 04, 1998	1998	Master	Master List By Division	ision			Page: 135
Divisio	Division SCS Spi	Spray Cool System						
ΜX	GRANTED	ORD 9402535	07-Apr-1994	184559	28-Apr-1997		07-Apr-2014	
RU	GRANTED	ORD 94011569	07-Apr-1994	2080392	27-May-1997		07-Apr-2014	
TW	GRANTED	ORD 83103545	21-Apr-1994	NI081555	18-Feb-1997			
SU	GRANTED	ORD 088800	08-Jul-1993	5330161	19-Jul-1994	E	19-Jul-2011	
ZA	GRANTED	ORD 94/2406	07-Apr-1994	94/2406	22-Feb-1995		07-Apr-2014	

Wednesday, N	Wednesday, November 04, 1998	98	Master	Master List By Division	sion			Pag	Page: 136
Division SCS		Spray Cool System					2 2 3 1 1 1 1 1	-	
Case Number	Att	Attorney	Disclosure Status	Title			I	Inventors	
017247	FJM	\$	FILED	COOLING S	COOLING SYSTEM FOR A TWO COMPONENT FURNACE ROOF	TWO	<b>*</b>	ARTHUR, MT MINER, FH	
	UCAR Carbo	UCAR Carbon Technology Corp	р						
	Keyword(s):								
	SPRAY COOL SYSTEM	L SYSTEM							
Sub Country Case	e Status	Case Application Type Number	on Filing Date	Patent Number	Issue Date	Tax Expir Schedule Date	Expiration Date	Agent Agent Ref#	
BR	PENDING	ORL P195052500	00 21-Nov-1995				21-Nov-2010		
CN	PUBLISHED	ORD 95121870.0	).0 21-Nov-1995			ΡÁ	21-Nov-2015		
DE	PENDING	EPC 95308371.4	.4 22-Nov-1995				22-Nov-2015		
EP	PUBLISHED	ORD 95308371.4	.4 22-Nov-1995				22-Nov-2015		
ES	PENDING	EPC 95308371.4	.4 22-Nov-1995				22-Nov-2015		
FR	PENDING	EPC 95308371.4	1.4 22-Nov-1995				22-Nov-2015		
GB	PENDING	EPC 95308371.4	1,4 22-Nov-1995				22-Nov-2015		
TT	PENDING	EPC 95308371.4	l.4 22-Nov-1995				22-Nov-2015		
Ъ	PENDING	ORD 328017/95	5 22-Nov-1995				22-Nov-2015		
RU	PENDING	ORD 95120005.00	5.00 21-Nov-1995				21-Nov-2015		
TW	GRANTED	ORD 84114183	30-Dec-1995	NI082401	15-Oct-1996		30-Dec-2015		
US	GRANTED	ORD 343249	22-Nov-1994	5648981	15-Jul-1997	LE			

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Wednesday, N	Wednesday, November 04, 1998	98	Master	Master List By Division	sion				Page: 137
Division SCS		Spray Cool System						, and a second s	
Case Number	At	Attorney I	Disclosure Status	Title				Inventors	
017285	FJM	X	FILED	MODULAR ELECTRIC	MODULAR SPRAY COOLED ELECTRIC ARC FURNACES		SIDE-WALL FOR	ARTHUR, MT BURWELL, WH	ΥH
	UCAR Carbo	UCAR Carbon Technology Corp						LEHR, DA	
	Keyword(s):							MINER, FH	
								ROBERTS. GR	7
Sub Country Case	Status	Case Application Type Number	1 Filing Date	Patent Number	Issue Date	Tax Expir Schedule Date	Expiration Date	Agent Ag	Agent Ref #
AR	PUBLISHED	ORD P960102328	8 26-Apr-1996			LE			
AU	PENDING	ORD 5083396	24-Apr-1996			LE			
BR	PENDING	ORD PI 9602083-0	-0 26-Apr-1996			LE	26-Apr-2011 212	212	
CA	PENDING	ORD 2175109	26-Apr-1996			LE	26-Apr-2016		
S	PUBLISHED	ORD 96108923.7	26-Apr-1996			E	26-Apr-2016		
DE	PENDING	EPC	15-Apr-1996			LE			
ΕP	PUBLISHED	ORD 96302901.2	25-Apr-1996			H	25-Apr-2016		
FR	PENDING	EPC	15-Apr-1996			H			
GB	PENDING	EPC	15-Apr-1996			Η			
TI	PENDING	EPC	15-Apr-1996			H			
JP	PENDING	ORD 107509/96	26-Apr-1996			LE			
KR	PENDING	ORD 14152/96	26-Apr-1996			LE			
RU	PENDING	ORD 96107979	25-Apr-1996			H	25-Apr-2016		
WT	Granted	ORD 85109269	30-Jul-1996		04-Jul-1998	LE	30-Jul-2016		

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Division SCS		Spray Cool System					
SU	GRANTED	ORD 429923	27-Apr-1995 5561685	5561685	01-Oct-1996	LE	
ZA	Granted	ORD 963318	25-Apr-1996	96/3318	29-Jan-1997	TE	

P	Sub Country Case Status			030004	Case Number	Division SCS	Wednesday, November 04, 1998	
Granted	se Status	Keyword(s): NOTE: REF	UCAR C				November 0	
ORD 1-210958	Case Application Type Number	Keyword(s): NOTE: REF P-FILE 1360-15-2-1	UCAR CARBON TECH/DAIDO STEEL	FJM	Attorney	Spray Cool System	1, 1998	
8	tion Filing Date	-2-1	O STEEL	Open	Disclosure Status		Master	
2753540	Patent Number			FURNACE	Title		Master List By Division	
13-Jan-1998	Issue Date			FURNACE COOLING APPARATUS			ision	
	Tax Expi Schedule Date			PARATUS				
1	Expiration Date							
750	Agent				Inventors			
	Agent Agent Ref#						Page: 139	
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JP	Sub Country Case Status				030005	Case Number	Division SCS	Wednesday, November 04, 1998
UNFILED	Status	SPRAY CC	Keyword(s):	UCAR CAF		*		ovember 04,
ORD 1-2252286	Case Application Type Number	SPRAY COOL SYSTEM	);·	UCAR CARBON TECH/DAIDO STEEL	FJM	Attorney	Spray Cool System	1998
252286				DAIDO STEE		Disclos	ä	
	Filing Date			Ţ	Open	Disclosure Status		Master L
	Patent Number				DAIDO STE	Title		Master List By Division
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	Expiration Date					H.		
750	Agent A					Inventors		
	Agent Agent Ref#							Page: 140

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Division SCS		Spray Cool System							
Case Number	At	Attorney	Disclosure Status	Title				Inventors	
030007	FJM	X	Open	PANELIZED ROOF	PANELIZED SPRAY-COOLED FURNACE ROOF	.ED FURN/		ARTHUR, MT BELLWOOD, E	
	UCAR Carbo	UCAR Carbon Technology Corp							
	Keyword(s):								
	SPRAY COOL SYSTEM	DL SYSTEM							
Sub Country Case Status	e Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Expi Schedule Date	Expiration Date	Agent Agent Ref#	
AR	PENDING	ORD P970104438	3 26-Sep-1997			H			
TW	PENDING	ORD 86114030	24-Sep-1997			HT.			
SN	PENDING	ORD 722362	27-Sep-1996			LE			
WO	PENDING	ORD US97/16676	5 24-Sep-1997			E			
ZA	Granted	ORD 978430	18-Sep-1997 97/8430	97/8430	24-Jun-1998	LE 1	18-Sep-2017		

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Division SCS	Spray Cool System			
Case Number	Attorney	Disclosure Status	Title	Inventors
030017	FJM	Filed	NOZZLE FOR SPRAYING LIQUIDS	ARTHUR, MT
				MINER, FH
UCAF	UCAR Carbon Technology Corp	dro		
Sub	Case Application	ution Filing r Date	Patent Issue Tax Expi Number Date Schedule Date	Expiration  Date  Agent Agent Ref #
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**RECORDED: 11/12/1998**