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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):  
UCAR **CARBON TECHNOLOGY CORP.**  
39 Old Ridgebury Road  
Danbury, CT 06817

2. Name and address of receiving party(ies):  
Name: **The Chase Manhattan Bank  
as Collateral Agent**

Internal Address:  
Street Address: **270 PARK AVENUE**  
City: **NEW YORK** State: **NY** ZIP: **10017**

- Individual(s)
- Association
- General Partnership
- Limited Partnership
- Corporation-State
- Other

- Individual(s) citizenship
- Association
- General Partnership
- Limited Partnership
- Corporation-State **NY**
- Other

Additional name(s) of conveying party(ies) attached?  Yes  No

If assignee is not domiciled in the United States, a domestic representative designation is attached:  Yes  No  
(Designations must be a separate document from Assignment)  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:
- Assignment
  - Security Agreement
  - Other
  - Merger
  - Change of Name

Execution Date: Nov. 10, 1998

4. Application number(s) or registration number(s):
- A. Trademark Application No.(s)

- B. Trademark registration No.(s)

See attached schedules

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Anne H. Lewallen

6. Total number of applications and registrations involved: 31

Internal Address: Cravath, Swaine & Moore  
Worldwide Plaza  
44th Floor

7. Total fee (37 CFR 3.41): \$ 790<sup>00</sup>

Street Address: 825 Eighth Avenue

- Enclosed
- Authorized to be charged to deposit account

City: New York State: NY ZIP: 10017

8. Deposit account number:  
(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Anne H. Lewallen  
Name of Person Signing

*Anne H. Lewallen* 11/10/98  
Signature

Total number of pages of this cover sheet

REEL: 1826 FRAME: 0001

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FC:461  
FC:462

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Thursday, November 05, 1998

Trademark List

Page: 48

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR IN GREEK		MR	1197	Registered		87155	04-Nov-2007	
Country: Greece								
		Owner: Union Carbide Corporation						
		Agent: VAYA Vayanos Kostopoulos						
		Classes: 7 9						
				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.				
UCAR-323		MR	1198	Registered	74/591040	2004989	01-Oct-2006	
Country: United States of America								
		Owner: Union Carbide Corporation						
		Classes: 17						
		Goods: Seals, gaskets, gasket sheet materials manufactured from composites of glass fiber and polytetrafluoroethylene for use in sealing gases or fluids in piping, flanges, valves and pumps, in International Class 17.						
				Remarks: 27-Oct-1994 01-Oct-1996				

18

Thursday, November 05, 1998

Trademark List

Page: 49

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UNICARBON		MR	1199	Registered	815496443	815496443	29-Nov-2004	
Country: Brazil		Owner: Union Carbide Corporation			27-Apr-1990	29-Nov-1994		
		Agent: DANI Daniel & Cia						

Classes: 1

Remarks: Merger & ch/name recorded.  
Goods: Productos 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.)

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR MR 1099 Renewing 1301614 26-Jul-1998  
 Country: Argentina  
 Owner: Union Carbide Corporation  
 Agent: MARV Marval, O'Farrell & Mairal

Classes: 1  
 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: Graphite and carbon for general industrial uses.

UCAR	MR	1100	Renewing	1301621	26-Jul-1998
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Country: Argentina  
 Owner: Union Carbide Corporation  
 Agent: MARV Marval, O'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.

Thursday, November 05, 1998

Trademark List

Page: 2

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR MR 1101 Renewing A214,416 24-Oct-1998

Country: Australia Owner: Union Carbide Corporation 24-Oct-1988

Agent: CALL Callinan Lawrie

Classes: 1 Remarks: Associated with 187,860 and 214,417.

Assignment and Ch/Name recorded 1/22/93.

Merger & CH/Name recorded 1/15/97.

Goods: Graphite and carbon for general industrial uses.

UCAR MR 1102 Registered A214417 24-Oct-2002

Country: Australia Owner: Union Carbide Corporation 24-Oct-1988

Agent: CALL Callinan Lawrie

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.

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR  
 MR 1104 Registered 60703 30-Nov-2007  
 Owner: Union Carbide Corporation  
 Agent: PUCH Patentanwalt Puchberger  
 30-Nov-1997

Classes: 4 22B 23

Remarks: Assignment/change of name recorded 4/28/92.  
 Merger/change of name recorded 8/21/95.  
 Shared with Ralston.

Goods: Class 4: Flashlights, electric flashlights, lighting and heating apparatus, electric lamps, electric lamp bulbs, electric torches and parts thereof, heat exchangers and parts thereof, carbons for electric lighting purposes. Class 22B, physical, chemical and electro-technical apparatus, flashlight apparatus, flashlight bulbs, industrial-chemical installations, industrial-chemical installations in the form of scrubbing, adsorption, fractionating and stripping, towers and columns and parts thereof. 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. Class 23, apparatus for heating and hardening and plating metal, gas operated apparatus of this kind.

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1105	Registered		1912	06-Jul-2001	

Country: Belize

Owner: Union Carbide Corporation  
Classes: 9

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.

UCAR

MR 1106 Renewing 37050-A 29-Nov-1997

Country: Bolivia

Owner: Union Carbide Corporation

29-Nov-1987

Agent: LAND Landivar & Landivar

Classes: 1  
Remarks: Assignment to UCC Holdings recorded 12/5/90.

Assignment to UCC recorded 2/7/91.

2/7/91.

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

Goods: Graphite and carbon for general industrial uses.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR	MR		1107	Renewing		37043-A	29-Nov-1997	
Country: Bolivia	Owner: Union Carbide Corporation	Agent: LAND Landivar & Landivar					29-Nov-1987	

Classes: 9  
 Remarks: Assignment to UCC Holdings recorded 12/5/90.  
 Assignment to UCC recorded 2/7/91.  
 Merger and change/name recorded 1/23/96.

Goods: Electrodes and anodes and connecting pins for same.

UCAR	MR		1108	Registered		U.K. 1,000	06-Jul-2001	
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Country: Botswana	Owner: Union Carbide Corporation	Agent: ADAM Adams & Adams					06-Nov-1987	
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Classes: 9  
 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 anodes, electric apparatus included in class 9 for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.



Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application 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						
		Goods: Electrodes, anodes and connecting pins for electrodes and anodes.			Remarks: Merger/Ch of name recorded 6/11/96.			
UCAR	MR		1110	Registered		9244	04-Dec-2003	
Country: Bulgaria								
		Owner: Union Carbide Corporation						
		Agent: MAGA Magaria V. Harizanova						
		Classes: 9						
		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 purposes.			Remarks: Assignment & Ch/name recorded. Merger/change of name 8/4/95.			

UCAR	MR		1111	Registered		171356	18-Sep-2000	
Country: Canada								
		Owner: Union Carbide Corporation						
		Agent: SIM Sim & McBurney						
		Classes: 9						
		Goods: Graphite electrodes and connecting pins therefor.			Remarks: Associated with Reg. No. 161262. Assignment and change/name recorded 11/23/90. Merger and change/name recorded.			

Thursday, November 05, 1998

### Trademark List

Page: 7

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1113	Renewing		330814	18-May-1998	
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Country: Chile  
Owner: Union Carbide Corporation  
18-May-1988

Agent: ESTU Estudio Federico Villaseca

Classes: 1 4 9  
Remarks: Assignment and change/name

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

Merger and change/name recorded  
3/15/96.

Goods: Natural mineral substances, elaborated and

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

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

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

Thursday, November 05, 1998

### Trademark List

Page: 8

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR		MR	1114	Renewing		66,540	12-Feb-1993	
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Country: Colombia

Owner: Union Carbide Corporation

12-Feb-1988

Agent: CAVE Caveller Abogados

Classes: 1

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 recorded 3/24/98, resolution no. 4856.

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR	MR		1117	Registered		1878/1969	11-Jul-1999	
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Country: Denmark

Owner: Union Carbide Corporation

Agent: BUDD Budd Schou & Co.

Classes: 11

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

Page: 10

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1118	Registered		46210	24-May-2000	
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Country: Egypt  
 Owner: Union Carbide Corporation  
 Agent: BAKI Bakir International Office

Classes: 9  
 Remarks: Assignment and change name published 3/1/92, issue 619.

Merger and change name recorded 11/27/97.

Goods: Electric batteries and electric dry cells, electrodes, anodes, connecting pins for electrodes and anodes being parts of these electrodes and anodes, carbon electrodes for use in motion picture projection apparatus.

UCAR	MR	1119	Registered	16595/40	29-Jan-1999
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Country: El Salvador  
 Owner: Union Carbide Corporation  
 Agent: RICA Ricardo Romero-Guzman

Classes: 12 22  
 Remarks: Assignment and change name recorded 7/10/90.

Goods: Graphite and carbon for general industrial uses: electrodes and anodes and connecting pins for electrodes and anodes. Electric dry cells and batteries.

Thursday, November 05, 1998

### Trademark List

Page: 11

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1120	Pending	36590			
Country: European Community								
<u>Designated Countries</u>								
AT	Pending							
BX	Pending							
DE	Pending							
DK	Pending							
ES	Pending							
FI	Pending							
FR	Pending							
GB	Pending							
GR	Pending							
IE	Pending							
IT	Pending							
MC	Pending							
PT	Pending							
SE	Pending							

Owner: Union Carbide Corporation

01-Apr-1996

Agent: GEVE Gevers & Partners

Classes: 1 2 9 19

Remarks:

Goods: Chemical products for use in industry, agriculture and personal care products, including synthetic organic chemicals and polymers, synthetic resins and plastics, adhesives, organic oxides, synthetic organic chemical solvents, chemical fuel additives, chemical viscosity improvers, de-icing fluids, compounds, compositions, and mixtures containing synthetic resins or plastics, carbon and graphite, and compounds, compositions and mixtures containing carbon or graphite, industrial gases, including acetylene, oxygen, hydrogen, nitrogen, argon, helium, neon, krypton and xenon and calcium carbide in Int. class 1. Chemical products for use in coatings, paints, varnishes and lacquers, metal and ceramic coating materials in Int. class 2. Electric dry cells and batteries, anodes, electrodes and cathodes, connecting pins for anodes and electrodes, and carbon and graphite for electrical purposes in Int. class 9. Products made partly or wholly of carbon and/or graphite in Int. class 19.

Thursday, November 05, 1998

Trademark List

Page: 12

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1121	Registered		50148	05-May-2007	
Country: Finland		Owner: Union Carbide Corporation				05-May-1997		
		Agent: BERG Bergren OY AB						
		Classes: 9						

Remarks: Merger and change name recorded 6/19/95.

Shared with Ralston.

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1122	Registered	736155	1408174	13-May-2007	

Country: France

Owner: Union Carbide Corporation

22-Jun-1967

13-May-1997

Agent: RINU Rinny, Santarelli

Classes: 1 9 11

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

Goods: 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 parts of 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, nuclear reactors, and industrial chemical installations, and carbons for electric lighting purposes.



Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1124	Registered		863961	17-Jul-2007	
Country: Germany	Owner: Union Carbide Corporation							
	Agent: LOUI Louis, Pohlau, Lohrenz & Sege							
	Classes: 6 7 9 11 17 19							

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR	MR		1126	Registered	U7439/9WZ	1147030	25-Feb-1999	
Country: Germany	Owner: Union Carbide Corporation				25-Feb-1989	25-Feb-1989		

Agent: LOUI Louis, Pohlau, Lohrenz & Sege  
 Classes: 9  
 Remarks: Assignment and change name recorded 2/20/92.

Merger and change name recorded 1/19/98.

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

UCAR	MR		1127	Registered		36265	30-Sep-2006	
Country: Greece	Owner: Union Carbide Corporation					30-Sep-1996		

Agent: VAYA Vayanos Kostopoulos  
 Classes: 9  
 Remarks: Assignment and change name recorded 11/17/89.

Merger and change name recorded 12/20/96.  
 Shared with Ralston.

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1128	Registered		37849	18-Jul-2007	

Country: Greece

Owner: Union Carbide Corporation

18-Jul-1997

Agent: VAYA Vayanos Kostopoulos

Classes: 11

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 purposes.

Thursday, November 05, 1998

Trademark List

Page: 17

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR

Country: Guatemala

Owner: Union Carbide Corporation

Agent: FERN Fernandez Y Fernandez S.A.

Classes: 9

Remarks: Assignment and change name recorded.

Goods: Electricity, machinery, supplies and electric apparatus and accessories for producing power, heat, and lights; telephony, telegraphy and wireless telegraphy, radiography, radiotelephony and radiotelephone and radiotelegraphy and especially. Electrodes and anodes and connecting pins for electrodes and anodes; electric dry cells and batteries.

UCAR

Country: Guyana

Owner: Union Carbide Corporation

Agent: POON N.O. Poonai

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.

Thursday, November 05, 1998

Trademark List

Page: 18

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR		MR	1131	Renewing		49671	15-Jul-1998	
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Country: Honduras  
 Owner: Union Carbide Corporation

Agent: BUFE Bufete Mejia & Asociados

Classes: 9  
 Remarks: This is old Reg. No. 14,794 broken down into separate classes.

Assignment and name change recorded 10/90.

Goods: Electric batteries, electrodes, anodes, cathodes and connecting pins for electrodes and anodes.

UCAR			1132	Registered		116905	12-Oct-2003	
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Country: Hungary  
 Owner: Union Carbide Corporation

Agent: SBGK S.B.G.Z. & K. Patent and Law O

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.

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR  
 Country: Indonesia  
 MR 1133 Unfiled 218540 218540  
 Owner: Union Carbide Corporation

Agent: AMRO Amroos Law Consultants

Classes: 1 9  
 Remarks: Merger and change/name recorded 5/28/97.

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

UCAR	MR	1133	Registered	32597	02-Sep-2005
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Country: Israel  
 Owner: Union Carbide Corporation  
 Agent: MUI.F. A.E. Mulford  
 02-Sep-1991

Classes: 9  
 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 electric welding and for use in spectroscopic apparatus, anodes and connecting pins for electrodes and anodes.

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1136	Registered		32598	21-Sep-2005	
Country: Israel								
		Owner: Union Carbide Corporation						
		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, shaped sections of carbon or graphite for the construction and lining of furnaces cupolas, industrial heating installations and included in class 11. Nuclear reactors not included in other classes and industrial chemical installations included in class 11, carbons for electric lighting purposes, ARC carbons for use in motion picture projectors and in therapeutic apparatus.

Thursday, November 05, 1998

Trademark List

Page: 21

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR

MR 1137 Renewing 220866 531802 28-Jul-1997

Owner: Union Carbide Corporation 28-Jul-1967 28-Jul-1987

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

Classes: 11 Remarks: Shared with Palston.

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.



**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR MR 1138 Registered 14,925 16-May-2002

Country: Kenya Owner: Union Carbide Corporation 16-May-1988

Agent: KAPL Kaplan & Stratton

Classes: 9 Remarks: Assignment recorded 11/15/89.  
Change name recorded 10/23/89.

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.

UCAR MR 1139 Registered 27/66 15-Feb-2001

Country: Malawi Owner: Union Carbide Corporation 15-Feb-1987

Agent: JOHN John & Kernick

Classes: 9 Remarks: Assignment change name record 12/8/89.  
Merger and change name recorded 4/21/95.

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.

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR 1140 Pending 92/08323

Country: Malaysia

Owner: Union Carbide Corporation

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,  
specially graphite for casting applications such  
as molds and dies.

UCAR

MR 1141 Pending 92/08320

Country: Malaysia

Owner: Union Carbide Corporation

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  
bricks, pastes, cement and thermocouple  
protection tubes, water spray-cooled systems  
and furnace operating systems for electric arc  
melting furnaces.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1142	Registered		142536	06-Sep-2002	
Country: Mexico	Owner: Union Carbide Corporation	Agent: BECE Becerril, Coca & Becerril, S.				06-Sep-1992		
	Classes: 1			Remarks: Assignment and change/name recorded.				
				Merger recorded 2/20/95;				
				change/name recorded 12/7/95.				
UCAR	MR		1143	Registered		146,448	06-Sep-2002	
Country: Mexico	Owner: Union Carbide Corporation	Agent: BECE Becerril, Coca & Becerril, S.				06-Sep-1967		
	Classes: 21			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		85500	24-Oct-2002	
Country: New Zealand	Owner: Union Carbide Corporation	Agent: PARK A.J. Park & Son				24-Oct-1988		
	Classes: 1			Remarks: Assignment recorded.				
				Merger and change name recorded per letter 12/8/95.				
				Associated with Reg. No. 85501.				
	Goods: Graphite and carbon for general industrial uses.							

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR MR 1145 Registered 85501 24-Oct-2002

Country: New Zealand

Owner: Union Carbide Corporation

24-Oct-1988

Agent: PARK A.J. Park & Son

Classes: 9

Remarks: Assignment recorded.

Merger and change name recorded.

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

UCAR MR 1147 Renewing 18420 20-Oct-1998

Country: Nicaragua

Owner: Union Carbide Corporation

20-Oct-1988

Agent: GUY Guy J. Bendana Guerrero & Asso

Classes: 24

Remarks: Assignment recorded 9/3/91.

Change name recorded 10/23/91.

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

Thursday, November 05, 1998

Trademark List

Page: 26

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1149	Registered		30383	26-Jul-2001	
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Country: Panama  
Owner: Union Carbide Corporation  
Agent: ARIAS Arias, Fabrega & Fabrega

Classes: 1  
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, including structures for the construction of industrial equipments.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1150	Registered		14528	26-Jul-2001	

Country: Panama  
 Owner: Union Carbide Corporation  
 Agent: ARLAS Arias, Fabrega & Fabrega  
 Classes: 9

Remarks: Based on Honduran Reg. No. 14,794.

Divisional registration of no. 14,528.

Proof of renewal based on Honduran Reg. No. 14749, recorded 2/9/90.

Assignment and change/name recorded.

Merger and change/name recorded.

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR 1154 Renewing 126872 21-Oct-1997

Country: Paraguay  
 Owner: Union Carbide Corporation  
 Classes: 1

Remarks: Assignment recorded 2/13/90.  
 Change of name recorded 4/12/93.  
 Merger and change name recorded 4/96.

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

UCAR

MR 1155 Renewing 126873 21-Oct-1997

Country: Paraguay

Owner: Union Carbide Corporation  
 Agent: ABEN AbenteSaguier

Classes: 9

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

Page: 29

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1156	Registered		12169	19-Jul-2002	
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Country: Peru  
Owner: Union Carbide Corporation  
Agent: ESTU Estudio Barrera 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.



Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1157	Registered		12170	19-Jul-2002	
Country: Peru		Owner: Union Carbide Corporation				19-Jul-1992		
		Agent: ESTU Estudio Barreda Moller						
		Classes: 9						

Remarks: Opposition against Ukocar upheld; registration denied.  
 Assignment and change/name recorded 6/20/90.  
 Merger and change/name recorded 8/9/95.

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.

UCAR	MR	1158	Registered	57120	02-Feb-2006
Country: Russian Federation		Owner: Union Carbide Corporation			02-Feb-1996
		Agent: SOJUZ Sojuzpatent			
		Classes: 9			

Remarks: Assignment and change/name recorded 9/10 and 9/11/90.  
 Not required to record merger/change of name per agents. Ralston not interested in maintaining.

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, 1998

Trademark List

Page: 31

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR			MR	1159	Registered	S/41618	41618	08-May-2002
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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.

UCAR			MR	1160	Registered	44159	17-Jun-2003
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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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1161	Registered		65/5071	06-Dec-2005	
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Country: South Africa  
 Owner: Union Carbide Corporation  
 Agent: ADAM Adams & Adams

Classes: 9

Remarks: Associated with No. 65/3669.

Assignment to UCC Holding  
 recorded and RUS cancelled  
 7/17/90.

Change/name recorded 2/15/91.  
 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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1162	Registered		535591	30-May-2007	
Country: Spain		Owner: Union Carbide Corporation						
		Agent: POLO Carlos Polo						
		Classes: 9						

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1163	Registered		540629	30-May-2000	
Country: Spain								
	Owner: Union Carbide Corporation							
	Agent: POLO Carlos Polo							
	Classes: 11							

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1165	Registered		120714	18-Aug-2007	
Country: Sweden	Owner: Union Carbide Corporation							
	Agent: ALBI Albihns Patentbyra Stockholm A							
	Classes: 7 9 11							

Remarks: (1) Consent: Puck Products Chimiques (Ukapot) Sweden.  
 (2) Consent: Schering A.G. in Sweden.  
 (3) Consent: Speri S.P.A. in Sweden.  
 (4) Consent: Ucan Greenman Ltd. In Sweden.  
 (5) Consent: Westvaco Corporation.  
 (6) Assignment and ch/name recorded 4/26/90.  
 (7) Merger & ch/name recorded 1/5/96.  
 (8) Shared with Ralston.

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR	1166	Registered	122354	26-Jan-2008			
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Owner: Union Carbide Corporation

26-Jan-1998

Agent: ALBI Albinus Patentbyra Stockholm A

Classes: 1

Remarks: Assignment and ch/name recorded 4/26/90.

Merger and ch/name recorded 1/5/96.

Goods: Graphite and carbon for general industrial uses.

UCAR

MR	1167	Registered	43922	31-Oct-2000			
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Country: Taiwan

Owner: Union Carbide Corporation

31-Oct-1990

Agent: LEE Lee and Li

Classes: 69

Remarks: Assignment & ch/name recorded 7/27 and 9/7/90.

Merger & ch/name not required to be recorded.

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

Page: 37

### Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR 1168

Registered

1005

06-Jul-2001

Owner: Union Carbide Corporation  
Classes: 9

Remarks: Assignment and change/name not recorded.  
Not doing business in Tonga; allow to lapse per client.

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.

UCAR

MR 1169

Renewing

896862

06-Jul-1997

Country: United Kingdom

Owner: Union Carbide Corporation  
Classes: 9

Remarks: (1) Associated with No. 865,946.  
(2) consent: Ucan Greenman Ltd. In U.K. (3) Assignment ch/name recorded I/17/92. (4) Merger recorded I/26/95. (5) Change of name recorded. (6) Shared with Ralston.

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 electric purposes.



**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MIR		1170	Renewing		909435	12-May-1998	
	Owner: Union Carbide Corporation Classes: 11 Remarks: (1) Associated with No. 896,862. (2) Consent: Ucan Greenman Ltd. In U.K. (3) Assignment & ch/name recorded 1/17/92. (4) Merger recorded 1/26/95. (5) Change of name recorded. Goods: Graphite and carbon heating and lighting elements.							

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR 1171 Registered 1056849 29-Dec-2006

Owner: Union Carbide Corporation

29-Dec-1975

Agent: GSCP The GSCP Partnership

Classes: 11

Remarks: (1) Consent: Ucan Greenman Ltd. 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.

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.

UCAR

MR 1172 Registered 864455 04-Feb-2009

Country: United States of America

Owner: Union Carbide Corporation  
Classes: 19

Remarks: Merger & ch/name recorded 2/11/95.

Goods: Graphite pipe slide support sets.

Thursday, November 05, 1998

Trademark List

Page: 40

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1173	Registered		884511	20-Jan-2000	
Country: United States of America								
Owner: Union Carbide Corporation								
Agent: MRD Margaret Ranft Day								
Classes: 9								
Remarks: Merger & ch/name recorded 2/11/95. <i>20</i>								
Goods: Electrolytic anodes.								
UCAR		MR	1174	Registered		893537	30-Jun-2000	
Country: United States of America								
Owner: Union Carbide Corporation								
Agent: ACFT Assistant Commissioner for Tra								
Classes: 19								
Remarks: Merger & ch/name recorded 2/21/95. <i>9</i>								
Goods: Carbon brick.								
UCAR		MR	1175	Registered		909659	09-Mar-2001	
Country: United States of America								
Owner: Union Carbide Corporation								
Agent: MRD Margaret Ranft Day								
Classes: 24								
Remarks: Merger & ch/name recorded 2/21/95. <i>20</i>								
Goods: Carbon and graphite fabrics.								

Thursday, November 05, 1998

Trademark List

Page: 41

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1178	Registered		967344	04-Sep-2003	
Country: United States of America		Owner: Union Carbide Corporation				04-Sep-1973		
		Classes: 19			Remarks: Merger and ch/name recorded 10/14/94.			
		Goods: 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, 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 protective layers in welding operations.						

23

UCAR		MR	1180	Registered		973945	27-Nov-2003	
Country: United States of America		Owner: Union Carbide Corporation				27-Nov-1973		
		Classes: 9			Remarks: Merger & ch/name recorded 2/21/95.			
		Goods: Metal ceramic thermocouple protecting tubes.						

24

UCAR		MR	1182	Registered		1008278	08-Apr-2005	
Country: United States of America		Owner: Union Carbide Corporation				08-Apr-1975		
		Classes: 1			Remarks: Merger & ch/name recorded 2/21/95.			
		Goods: Unmachined carbon and graphite.						

25

Thursday, November 05, 1998

Trademark List

Page: 42

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1184	Registered	73/018646	1014143	24-Jun-2005	
Country: United States of America								
Owner: Union Carbide Corporation								
Classes: 19								
Remarks: Merger & ch/name recorded 12-Apr-1974 24-Jun-1975								
Goods: Graphite pipe. 2/21/95. <i>glo</i>								
UCAR			MR 1185	Registered		1016291	22-Jul-2005	
Country: United States of America								
Owner: Union Carbide Corporation								
Classes: 9								
Remarks: 22-Jul-1975								
Goods: Carbon electrodes. <i>g1</i>								
UCAR			MR 1186	Registered		1173765	20-Oct-2001	
Country: United States of America								
Owner: Union Carbide Corporation								
Classes: 1								
Remarks: 8 & 15 Affidavit accepted 5/6/88. 20-Oct-1981								
Merger & ch/name recorded 2/21/95. <i>g1</i>								
Goods: Graphite powder for various uses in the industrial arts.								

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1187	Registered		1496686	19-Jul-2008	

Country: United States of America

Owner: Union Carbide Corporation  
Classes: 11

Remarks: (1) Opposition filed against Icar, 19-Jul-1988

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).

24

UCAR	MR	1188	Registered	74/095358	1692647	09-Jun-2002		
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Country: United States of America

Owner: Union Carbide Corporation  
Classes: 9

Remarks: Merge & ch/name recorded  
10-Sep-1990 09-Jun-1992

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

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.

30

Thursday, November 05, 1998

Trademark List

Page: 44

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR  
Country: United States of America  
MR 1189  
Owner: Union Carbide Corporation  
Classes: 9  
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).  
Registered 74/240160 1756549 09-Mar-2003  
27-Jan-1992 09-Mar-1993  
Remarks: Merger & ch/name recorded 2/21/95.

21

UCAR  
Country: Uruguay  
MR 1190  
Owner: Union Carbide Corporation  
Agent: BARB Barbosa Caravia & Co.  
Classes: 9  
Goods: Graphite and carbon for general industrial uses.  
Registered 246632 23-Apr-2002  
05-Feb-1971  
Remarks: 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.

UCAR  
Country: Venezuela  
MR 1191  
Owner: Union Carbide Corporation  
Agent: BENT Bentata Hoel & Asociados  
Classes: 21  
Goods: Electrodes and anodes and connecting pins for electrodes and anodes, electric dry cells and batteries.  
Renewing 65826-F 07-Jul-1996  
07-Jul-1971  
Remarks: Assignment, ch/name recorded 3/17/92.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR  
Country: Venezuela

MR 1192 Pending 13888  
 Owner: Union Carbide Corporation  
 Agent: BENT Bentata Hoet & Asociados

Remarks: Appln. Replaces reg no. 65,825-F  
 lapsed due to failure by Balogh to  
 renew.

Goods: Graphite and carbon for general industrial use.

UCAR	MR	1193	Renewing	Z586/73	23099	25-Jun-1998		
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Country: Yugoslavia  
 Owner: Union Carbide Corporation  
 Agent: MIKI Mikielji & 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.  
 Merger ch/name recorded 11/97.

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, 1998

Trademark List

Page: 46

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR

MR 1194 Registered 724/65 06-Dec-2000

Owner: Union Carbide Corporation

Agent: ADAM Adams & Adams

Classes: 9

Remarks: Merger & ch/name recorded 8/8/95.

Goods: Electric dry cells, electric batteries, electrodes;

anodes connecting pins for electrodes and

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.

UCAR

MR 1195 Registered 994/65 06-Dec-2006

Country: Zimbabwe

Owner: Union Carbide Corporation

Classes: 9

06-Dec-1996

Remarks: Assignment & ch/name recorded 9/28/89.

Goods: Electric dry cells, electric batteries; electrodes,

anodes, connecting pins for electrodes and

anodes; electric welding apparatus (not

machines); carbons for electric purposes (other

than for lighting); electric soldering irons;

foundry moulds and foundry cores, all made of

carbon or of graphite.

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR (STYLIZED)		MR	1196	Pending	97/703816			
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Country: Russian Federation  
 Owner: Union Carbide Corporation  
 Agent: SOJUZ Sojuzpatent  
 18-Mar-1997

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 and dies.

## 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., a 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

### Definitions

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

SECTION 1.02. Definition of Certain Terms Used Herein.

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.

"License" 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.S. Subsidiaries" shall mean the Subsidiaries (as defined in the Credit Agreements) incorporated or otherwise organized in the United States of America.

SECTION 1.03. Rules of Interpretation. 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.

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. Inspection and Verification. Without 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. Taxes; Encumbrances. 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. Validity of Patents, Trademarks and Copyrights. 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. Title and Authority. 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, refileing, 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.

(b) 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, refileing, 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. This 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. Information Regarding Names and Locations. 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.

(e) 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.

(f) 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. Protection of Security. 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. Future Rights. (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 Assignment of Licenses. 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 non-exclusive 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-in-fact of the Grantors for the purposes set forth above in this Section 5.01 is coupled with an interest and is irrevocable. The 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. 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, 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

### Miscellaneous

SECTION 6.01. The Collateral Agent Appointed Attorney-in-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. Notices. 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. Successors and Assigns. (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. Security Interest Absolute. 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. Binding Effect; Assignments. 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. Termination; Release. (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. Severability. 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 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.

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SECTION 6.12. Jurisdiction; Consent to Service of Process. (a) Each Grantor hereby irrevocably and unconditionally 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. Counterparts. 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. Headings. 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

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hereunder shall remain in full force and effect notwithstanding the addition of any new Grantor as a party to this Agreement.

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**TRADEMARK**  
**REEL: 1826 FRAME: 0071**

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

UCAR INTERNATIONAL INC.

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

UCAR GLOBAL ENTERPRISES INC.

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

EACH OF THE SUBSIDIARY GRANTORS LISTED ON SCHEDULE VII HERETO

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

THE CHASE MANHATTAN BANK, as Collateral Agent

by Marcia N. Schulz  
 Name:  
 Title:



SCHEDULE I  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

PATENTS AND PATENT APPLICATIONS

<i>Serial No. or Patent No.</i>	<i>Inventor</i>	<i>Country</i>	<i>Issue or File Date</i>	<i>Title</i>
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SEE ATTACHED

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TRADEMARK  
REEL: 1826 FRAME: 0073

SCHEDULE II  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

TRADEMARKS, TRADEMARK REGISTRATIONS AND  
TRADEMARK REGISTRATION APPLICATIONS

<i>Serial No. or Registration No.</i>	<i>Country</i>	<i>Issue or File Date</i>	<i>Mark</i>
SEE ATTACHED			

[NYCORP; 697656.4:4336D:11/05/1993--2:37p]

TRADEMARK  
REEL: 1826 FRAME: 0074

SCHEDULE III  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

*COPYRIGHT REGISTRATIONS AND COPYRIGHT  
REGISTRATION APPLICATIONS*

<i>Registration No.</i>	<i>Country</i>	<i>Issue or File Date</i>	<i>Title</i>
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**TRADEMARK  
REEL: 1826 FRAME: 0075**

SCHEDULE IV  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

*TRADE NAMES*

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

TRADEMARK  
REEL: 1826 FRAME: 0076

SCHEDULE V  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

*LIENS ON*

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

TRADEMARK  
REEL: 1826 FRAME: 0077

SCHEDULE VI  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

Offices Where Financing Statements Need to be Filed

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

TRADEMARK  
REEL: 1826 FRAME: 0078

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]

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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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,

by

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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., a 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

### Definitions

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

SECTION 1.02. Definition of Certain Terms Used Herein.

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.

"License" 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.S. Subsidiaries" shall mean the Subsidiaries (as defined in the Credit Agreements) incorporated or otherwise organized in the United States of America.

SECTION 1.03. Rules of Interpretation. 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.

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. Inspection and Verification. Without 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. Taxes; Encumbrances. 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. Validity of Patents, Trademarks and Copyrights. 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. Title and Authority. 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, refileing, 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.

(b) 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, refileing, 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. This 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. Information Regarding Names and Locations. 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.

(e) 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.

(f) 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. Protection of Security. 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. Future Rights. (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 Assignment of Licenses. 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 non-exclusive 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-in-fact of the Grantors for the purposes set forth above in this Section 5.01 is coupled with an interest and is irrevocable. The 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. 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, 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

### Miscellaneous

SECTION 6.01. The Collateral Agent Appointed Attorney-in-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. Notices. 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. Successors and Assigns. (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. Security Interest Absolute. 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. Binding Effect; Assignments. 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. Termination; Release. (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. Severability. 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 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.

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SECTION 6.12. Jurisdiction; Consent to Service of Process. (a) Each Grantor hereby irrevocably and unconditionally 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. Counterparts. 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. Headings. 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

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hereunder shall remain in full force and effect notwithstanding the addition of any new Grantor as a party to this Agreement.

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**TRADEMARK**  
**REEL: 1826 FRAME: 0103**

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

UCAR INTERNATIONAL INC.

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

UCAR GLOBAL ENTERPRISES INC.

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

EACH OF THE SUBSIDIARY GRANTORS LISTED ON SHEDULE VII HERETO

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

THE CHASE MANHATTAN BANK, as  
 Collateral Agent

by Marcia N. Schulz  
 Name:  
 Title:



SCHEDULE I  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

PATENTS AND PATENT APPLICATIONS

<i>Serial No. or Patent No.</i>	<i>Inventor</i>	<i>Country</i>	<i>Issue or File Date</i>	<i>Title</i>
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SEE ATTACHED

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TRADEMARK  
REEL: 1826 FRAME: 0105

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**



SCHEDULE III  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

COPYRIGHT REGISTRATIONS AND COPYRIGHT  
REGISTRATION APPLICATIONS

<i>Registration No.</i>	<i>Country</i>	<i>Issue or File Date</i>	<i>Title</i>
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[NYCORP; 697656.4:4336D:11/05/1998--2:37p]

TRADEMARK  
REEL: 1826 FRAME: 0107

SCHEDULE IV  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

*TRADE NAMES*

[NYCORP; 697656. 4: 4336D: 11/05/1998--2: 37p]

**TRADEMARK**  
**REEL: 1826 FRAME: 0108**

SCHEDULE V  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

*LIENS ON*

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

**TRADEMARK**  
**REEL: 1826 FRAME: 0109**

SCHEDULE VI  
TO INTELLECTUAL  
PROPERTY SECURITY AGREEMENT

Offices Where Financing Statements Need to be Filed

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

TRADEMARK  
REEL: 1826 FRAME: 0110

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]

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.

[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.

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

TRADEMARK  
REEL: 1826 FRAME: 0113

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:

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

**TRADEMARK**  
**REEL: 1826 FRAME: 0114**

Thursday, November 05, 1998

Trademark List

Page: 1

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
C-CAT			MR 1003	Registered	74/455328	2051081	08-Apr-2007	25-Feb-1995

Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 1

Remarks:

08-Nov-1993 08-Apr-1997

Goods: Carbonaceous cement catalyst for joining or bonding carbon and graphite products, namely, electrodes, bricks, cathode blocks, specially graphite and refractory shapes

DURABURN

GSPEC MR 1202

Pending

Country: United States of America

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

DURACAST

GSPEC MR 1005

Registered

Country: Denmark

Owner: UCAR Carbon Technology Corp.  
Agent: BUDD Budde Schou & Co.

0592/95 2532/95 21-Apr-1995

21-Apr-2005

Classes: 19

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

Thursday, November 05, 1998

Trademark List

Page: 2

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
DURACAST			GSPEC MR 1006	Registered	490/95	143965	20-May-2006	
Country: Finland			Owner: UCAR Carbon Technology Corp. Agent: BERG Berggren OY AB		30-Jan-1995	20-May-1996		
			Classes: 1	Remarks:				
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
DURACAST			GSPEC MR 1007	Registered		95/559,893	23-Feb-2005	
Country: France			Owner: UCAR Carbon Technology Corp. Agent: RINU Rinyu, Santarelli			23-Feb-1995		
			Classes: 19	Remarks:				
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
DURACAST			GSPEC MR 1008	Registered	395036054	39503605	28-Sep-2005	
Country: Germany			Owner: UCAR Carbon Technology Corp. Agent: LOUI Louis, Pollau, Lohrenz & Sege		28-Jan-1995	28-Sep-1995		
			Classes: 19	Remarks:				
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
DURACAST			GSPEC MR 1009	Registered	1146/95	173285	17-Feb-2002	
Country: Ireland, Republic of			Owner: UCAR Carbon Technology Corp. Classes: 1		17-Feb-1995	17-Feb-1995		
			Remarks:					
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
DURACAST								
Country: Israel								
	GSPEC MR		1010	Registered	96718	96718	25-Jan-2002	
	Owner: UCAR Carbon Technology Corp.				26-Jan-1995	08-Oct-1996		
	Agent: MULF A.E. Milford							
	Classes: 19			Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.							
DURACAST								
Country: Italy								
	GSPEC MR		1011	Registered	95C/000868	712925	22-Feb-2005	
	Owner: UCAR Carbon Technology Corp.				22-Feb-1995	13-Jun-1997		
	Agent: BARZ Ing. Barzano & Zardo Roma S.P							
	Classes: 1			Remarks:				
	Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.							
DURACAST								
Country: Norway								
	GSPEC MR		1012	Registered	95/0653	173947	06-Jun-2006	
	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.							
DURACAST								
Country: Portugal								
	GSPEC MR		1013	Registered	306816	306816	03-Jan-2006	
	Owner: UCAR Carbon Technology Corp.				27-Jan-1995	03-Jan-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.							

Thursday, November 05, 1998

Trademark List

Page: 4

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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DURACAST

Country: Spain  
 GSPEC MR 1014 Registered 1948738 02-Feb-2005

Owner: UCAR Carbon Technology Corp.  
 Agent: POLO Carlos Polo

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

Country: Sweden

GSPEC MR 1015 Registered 95-0785 307141 22-Dec-2005

Owner: UCAR Carbon Technology Corp.  
 Agent: ALBI Albilins Patentbyra Stockholm A

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

Country: United Kingdom

GSPEC MR 1016 Registered 2009155 2009155 27-Jan-2005

Owner: UCAR Carbon Technology Corp.  
 Agent: GRAN Grant, Spencer, Caisley & Port

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

Country: United States of America

GSPEC MR 1017 Registered 74/454090 2003368 24-Sep-2006

Owner: UCAR Carbon Technology Corp.  
 Classes: 19

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

Thursday, November 05, 1998

Trademark List

Page: 5

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
DURAPRESS			1200	Pending	75/517643			
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 1								
Goods: artificial graphite for use in industrial hot pressing of metallic powders								
Remarks: 13-Jul-1998								

EXPANDOGRAF			1023	Registered	75/194888	2189843	15-Sep-2008	23-Dec-1997
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 17								
Goods: Flexible graphite sheet gasket material for use in industrial applications.								
Remarks: Statement of Use accepted 8/6/98.								

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFGUARD		MR	1028	Published	327,031			
Country: European Community								
Owner: UCAR Carbon Technology Corp.								
Agent: GEVE Geyers & Partners								
<u>Designated Countries</u>								
BX	Published	Classes: 1		Remarks:				
DE	Published	Goods: Graphite particles for use in the manufacture of fire retardant products in int. class 1.						
DK	Published							
ES	Published							
FI	Published							
FR	Published							
GB	Published							
GR	Published							
IE	Published							
IT	Published							
MC	Published							
PT	Published							
SE	Published							

GRAFGUARD	MR	1028	Registered	113097/96	4166366	10-Jul-2008		
Country: Japan								
Owner: UCAR Carbon Technology Corp.								
Agent: SUZU Suzuye & 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.								



Thursday, November 05, 1998

Trademark List

Page: 7

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFGUARD		MR	1029	Registered	75/106979	2111370	04-Nov-2007	

Owner: UGAR Carbon Technology Corp.  
Classes: 9

Remarks: Also searched charged.  
20-May-1996 04-Nov-1997  
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 manufacture of  
fire retardant products

Thursday, November 05, 1998

Trademark List

Page: 8

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFKOTE			MR 1030	Registered	7/4/217903	1812925	21-Dec-2003	
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Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 17

Remarks: Also conducted full searches for

Graphikoke Grafene and Graphlene. Additional preliminary searches were conducted for Monofilm, Monograf, Monofoil, Soloseal, Solograf, Grafplas, Graf-plus, Grafilm, Thermocarb, Plastikote, Super-Graf, Tuff-Foil and Extra.

Consent given by Dixon Ticonderoga to use GRAFKOTE for restricted goods: flexible graphite and polymer composite sheets and rolls.

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: UCAR Carbon Technology Corp.  
Classes: 1

MR 1203

Pending

Remarks: ITU application filed via express mail 10/21/98

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL

Country: Argentina

MR			1034	Renewing		1278798	08-Mar-1998	
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Owner: UCAR Carbon Technology Corp.  
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.

Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbon, foam, strands, filaments, for textile use.

GRAFOIL

Country: Argentina

MR			1035	Renewing		1278797	08-Mar-1998	
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Owner: UCAR Carbon Technology Corp.  
Agent: MARV Marval, O'Farrell & Mairal

Classes: 17

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.

Goods: Carbon and graphite in the form of flexible webs, cloth, individual or laminated sheets, strips, tapes, ribbon, foam, strands, filaments, other than for textile use.

GRAFOIL

Country: Argentina

MR			1036	Registered		1381802	31-May-2000	
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Owner: UCAR Carbon Technology Corp.  
Agent: MARV Marval, O'Farrell & Mairal

Classes: 17

Goods: Gaskets and packing rings.  
Remarks:

Thursday, November 05, 1998

Trademark List

Page: 10

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL  
 Country: Australia  
 MR 1037 Registered A288753 11-Jul-2006  
 Owner: UCAR Carbon Technology Corp.  
 Agent: CALL Callinan Lawrie  
 11-Jul-1982

Classes: 17  
 Remarks: Assignments recorded 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 goods included in this class.

GRAFOIL	MR	1038	Registered	750133090	750133090	14-Nov-2004
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Country: Brazil  
 Owner: UCAR Carbon Technology Corp.  
 Agent: DANI Daniel & Cia  
 16-Jul-1975 14-Nov-1995

Remarks: Opposition filed against Nacional de Grafite Ltda. - GRAFOIL appln. No. 820695084 - 9/98.  
 Opposition filed against Juntait Ind e Com. - GRAFOIL reg. No. 816459495 - court action pending as of 10/98.

Goods:

Thursday, November 05, 1998

### Trademark List

Page: 11

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL			MR	1040	Registered	137196	04-Sep-2009	
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Country: Canada

Owner: UCAR Carbon Technology Corp.

Agent: SIM Sim & McBurney

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.

GRAFOIL

Country: China

MR	1041	Registered	162830	162830	28-Sep-2002
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Owner: UCAR Carbon Technology Corp.

Agent: CCPIT CCPIT Patent and Trademark Law

Classes: i5

Remarks: Assignment and license recorded.

Goods: Carbon and Graphite flexible webs, sheets, strips, tape, foam, strands and filaments.

Thursday, November 05, 1998

Trademark List

Page: 12

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL		MR	1042	Registered	375258	206335	28-Jan-2008	
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Country: Colombia  
Owner: UCAR Carbon Technology Corp.

11-Feb-1993 29-Jan-1998

Agent: CAVE Cavalier Abogados

Classes: 17

Remarks: This record was entered 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.

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  
and insulating materials, flexible pipes, not of  
metal.

GRAFOIL	MR	1043	Registered	375259	152993	28-Feb-2004
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Country: Colombia

Owner: UCAR Carbon Technology Corp.

11-Feb-1993 28-Feb-1994

Agent: CAVE Cavalier Abogados

Classes: 1

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

Goods:

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL		MR	1044	Registered		674/1981	13-Feb-2001	
Country: Denmark		Owner: UCAR Carbon Technology Corp.				13-Feb-1981		
		Agent: BUDD Budde Schou & Co.						
		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.						
		Remarks: Assignment recorded 2/7/90.						

Thursday, November 05, 1998

Trademark List

Page: 14

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL		MR	1045	Registered	37291	37291	01-Apr-2006	
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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 graphitic in the form of flexible	
DE	Registered	webs, cloths, individual or laminated sheets,	
DK	Registered	strips, tapes, ribbons, foam, strands and	
ES	Registered	filaments in Int. Class 1. Gaskets, packing	
FI	Registered	rings, insulating and sealing materials in Int.	
FR	Registered	Class 17.	
GB	Registered		
GR	Registered		
IE	Registered		
IT	Registered		
MC	Registered		
PT	Registered		
SE	Registered		



Thursday, November 05, 1998

Trademark List

Page: 15

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL			MR 1046	Registered		7,816 06-Oct-1980	06-Oct-2000	
Country: Finland		Owner: UCAR Carbon Technology Corp. Agent: BERG Bergren OY AB						
		Classes: 1 17						
		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 12/31/89. License recorded 12/14/89.						
GRAFOIL			MR 1047	Registered		59,625 05-Sep-1997	05-Sep-2007	
Country: Greece		Owner: UCAR Carbon Technology Corp. Agent: VAYA Vayanos Kostopoulos						
		Classes: 17						
		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 1/24/90. Petition to record license filed.						
GRAFOIL			MR 1050	Registered		6094/92 18-Nov-1992	154738 18-Nov-1992	18-Nov-1999
Country: Ireland, Republic of		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.						
		Remarks:						

Thursday, November 05, 1998

Trademark List

Page: 16

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL			MR 1051	Registered	6095/92	154739	18-Nov-1999	
Country: Ireland, Republic of					18-Nov-1992	18-Nov-1992		
			Owner: UCAR Carbon Technology Corp.					
			Agent: KELL F.R. Kelly & Co.					
			Classes: 17					
								Remarks: Associated with GRAFOIL appln. No. 6094/92. Worldwide consent with Societe Gravograph (GRAVOFOL).
			Goods: gaskets and packing rings					
GRAFOIL			MR 1052	Registered		1664036	23-Feb-2004	
Country: Japan								
			Owner: UCAR Carbon Technology Corp.					
			Agent: SUZU Suzuye & Suzuye					
			Classes: 34					
								Remarks: Original certificate lost (sent to Traub 3/84). Assignment recorded 11/5/90.
			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.					
			Agent: SUZU Suzuye & Suzuye		06-Jun-1988	30-Aug-1991		
			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.					

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL

Country: Mexico

MR 1056 Registered 201991 10-Jan-2002

Owner: UCAR Carbon Technology Corp. 10-Jan-1992

Agent: BECE Becerril, Coca & Becerril, S.

Classes: 35 Remarks: Assignment and license recorded

2/9/93.

Goods: Gaskets and packing rings.

GRAFOIL

Country: Mexico

MR 1057 Registered 202353 10-Jan-2002

Owner: UCAR Carbon Technology Corp. 10-Jan-1992

Agent: BECE Becerril, Coca & Becerril, S.

Classes: 13 Remarks: Assignment and license recorded

2/3/93.

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments.

GRAFOIL

Country: New Zealand

MR 1058 Registered 120039 12-Jul-2012

Owner: UCAR Carbon Technology Corp. 12-Jul-1984  
 Classes: 17 Remarks: Assignment recorded 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.

Trademark List

Trademark Name	Division	Attorney(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.					
			Agent: BERG Bergen Patentkontor					
			Classes: 17					
			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 and license recorded 10/4/89.					
GRAFOIL			MR 1061	Registered	95298	95298	17-Dec-2017	
Country: Philippines								
			Owner: UCAR Carbon Technology Corp.					
			Agent: SIGU Signon Reyna, Montecillo & On		19-Sep-1994	17-Dec-1997		
			Classes: 9					
			Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.					
			Remarks: This application replaces Reg. No. 25,533.					
GRAFOIL			MR 1064	Registered	75/3634	75/3634	14-Jul-2005	
Country: South Africa								
			Owner: UCAR Carbon Technology Corp.		14-Jul-1975	14-Jul-1995		
			Agent: ADAM Adams & Adams					
			Classes: 17					
			Goods: Carbon and Graphite in the form of flexible webs, cloths, individual filaments, gaskets and packing rings.					
			Remarks: Assignment recorded 9/7/90.					

Thursday, November 05, 1998

Trademark List

Page: 19

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAF-FOIL		MR	1065	Registered	165401	165401	10-Nov-2008	
Country: Sweden		Owner: UCAR Carbon Technology Corp.			10-Nov-1978	10-Nov-1988		
		Agent: ALBI Albinus Patentbyra Stockholm A						
	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.							
GRAF-FOIL		MR	1068	Pending	87013219			
Country: Taiwan		Owner: UCAR Carbon Technology Corp.			24-Mar-1998			
		Agent: LEE Lee and Li						
	Classes: 17			Remarks: [Replaces 87,440 - covered goods not in use]				
	Goods: Gaskets and packing rings.							
GRAF-FOIL		MR	1069	Pending	87013218			
Country: Taiwan		Owner: UCAR Carbon Technology 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.							

Thursday, November 05, 1998

Trademark List

Page: 20

Trademark Name

Division

GRAFOIL

Attorney(s)

Case Number

Status

Application Number/Filing

Registration Number/Date

Renewal Date

First Use Date

Country: Turkey

MR

1070

Registered

59627

99456

12-Sep-2007

Owner: UCAR Carbon Technology Corp.

12-Sep-1977

12-Sep-1997

Agent: DERIS Deris Patents and Trademark Ag

Remarks: Assignment recorded 1990.

GRAFOIL

Country: United Kingdom

MR

1071

Registered

938730

938730

25-Feb-2004

Owner: UCAR Carbon Technology Corp.

25-Feb-1969

25-Feb-1990

Agent: GRAN Grant, Spencer, Caisley & Port

Classes: 17

Remarks: Consent obtained from Courtaulds Ltd. 1/20/71.

Assignment recorded 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 packing rings, all made from the aforesaid materials.

GRAFOIL

Country: United States of America

MR

1072

Registered

758239

15-Oct-2003

Owner: UCAR Carbon Technology Corp.

15-Oct-1983

Remarks: High Temperature Materials, Inc. merged with UCC 3/1/66, recorded

3/29/66, Reel 136 Frame 526.

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

Page: 21

### Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL			1073	Registered		850235	04-Jun-2008	
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 17								
Goods: Gaskets and packing rings.								
Remarks:								

GRAFOIL

Country: United States of America

MR 1204 Pending

Owner: UCAR Carbon Technology Corp.

Classes: 1  
Remarks: New application filed after 1196891 cancelled.

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, punns or sliding joints.

GRAFOIL

Country: Venezuela

MR 1076 Registered 84627 84627 22-Jul-2007

Owner: UCAR Carbon Technology Corp.

Agent: VALL Vallina Grisanti & Asociados

Classes: 1  
Remarks: Assignment recorded 1/3/94.

Oppositions filed against GRAFOIL applications filed by Juan Fernandez Martinez; pending as of 10/98.

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foann, strands, filaments.

Thursday, November 05, 1998

Trademark List

Page: 22

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL AND CHINESE

Country: Taiwan

MR 1077

Owner: UCAR Carbon Technology Corp.

Agent: LEE Lee and Li

Classes: 92

Remarks: Assignment recorded 11/15/89.

License recorded 4/10/90.

Goods: Gaskets and packing rings.

GRAFOIL AND KOREAN

Country: Korea, South

MR 1079

Owner: UCAR Carbon Technology Corp.

Agent: KIM Kim, Shin & Yu

Classes: 16

Remarks: Assignment recorded 4/17/90.

License and address change recorded 6/15/93.

Goods: Natural graphite and graphite.

GRAFOIL IN KATAKANA

Country: Japan

MR 1080

Owner: UCAR Carbon Technology Corp.

Agent: SUZU Suzuye & Suzuye

Classes: 34

Remarks: Assignment recorded 11/5/90.

Goods: Individual or laminated sheets, strips and foam, all made of carbon or graphite, and all other goods in the class.

GRAFSHIELD

Country: United States of America

MR 1201

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.



Thursday, November 05, 1998

Trademark List

Page: 23

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAPHI-TOOL			MR 1084	Registered	6100/92	154737	18-Nov-1999	
Country: Ireland, Republic of								
Owner: UCAR Carbon Technology Corp.								
Agent: KELI, F.R. Kelly & Co.								
Classes: 7								
Remarks:								
Goods: Graphite tooling systems used in tooling carbon and/or graphite composites for use in the defense, satellite and aerospace industries.								
GRAPHI-TOOL			MR 1085	Registered	81063363	614602	30-Sep-2003	
Country: Taiwan								
Owner: UCAR Carbon Technology Corp.								
Agent: LEE Lee and Li								
Classes: 84								
Remarks:								
Goods: Graphite tooling machines.								
GRAPHI-TOOL			MR 1086	Registered		151874	13-Nov-1999	
Country: United Kingdom								
Owner: UCAR Carbon Technology Corp.								
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.								
GRAPHI-TOOL			MR 1087	Registered	073356	1702837	28-Jul-2002	
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 7								
Remarks: Section 8 & 15 accepted 3/23/98.								
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

Trademark List

Page: 24

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GSP  
 Country: United States of America  
 MR 1088 Registered 723111 1546426 04-Jul-2009 09-Sep-1987  
 Owner: UCAR Carbon Technology Corp.  
 Classes: 17  
 Remarks: Sections 8&15 accepted 12/11/95.  
 Goods: Flexible graphite packing material used for fluid sealing in pumps and valves in the valve and pump packing industry.

GTS

Country: United States of America  
 MR 1089 Registered 784266 1569027 05-Dec-1999 07-Apr-1988  
 Owner: UCAR Carbon Technology Corp.  
 Agent: ACFT Assistant Commissioner for Trade  
 Classes: 1  
 Remarks: Sections 8 & 15 accepted 12/4/95.  
 Goods: Graphite paste used as pipe thread sealant, in Class 1.

PYROFOAM

Country: Canada  
 MR 1091 Registered 177988 27-Aug-2001  
 Owner: UCAR Carbon Technology Corp.  
 Agent: SIM Sim & McBurney

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  
 MR 1093 Registered 723722 1541522 30-May-2009  
 Owner: UCAR Carbon Technology Corp.  
 Classes: 17  
 Remarks: Sections 8 & 15 accepted 3/25/96.  
 Goods: Flexible graphite packing materials used for fluid sealing in pumps, valves and related components.

Thursday, November 05, 1998

Trademark List

Page: 25

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
SMART RAM			M/R 1094	Registered	74/170580	1727628	27-Oct-2002	18-Apr-1991
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 19								
Remarks: Sections 8 & 15 accepted 3/3/98.								
Goods: Refractory ramming mixes, in class 19.								

SOCKET MARKING FOR ELECTRODES	M/R	1095	Registered	418218	11-Dec-2005
Country: United States of America					
Owner: UCAR Carbon Technology Corp.					
Classes: 19					
Remarks:					
Goods: Carbon electrodes and graphite electrodes.					

SUPER GTO	M/R	1096	Pending	75/309150
Country: United States of America				
Owner: UCAR Carbon Technology Corp.				
Classes: 17				
Remarks:				
Goods: Flexible graphite sheets for use in internal combustion engines and automotive heat shielding applications in Int. Class 1.				

Thursday, November 05, 1998

Page: 1

### Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1099	Renewing		1301614	26-Jul-1998	
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Country: Argentina  
Owner: Union Carbide Corporation  
Agent: MARV Marval, O'Farrell & Mairal

Classes: 1  
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: Graphite and carbon for general industrial uses.

UCAR		MR	1100	Renewing		1301621	26-Jul-1998	
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Country: Argentina  
Owner: Union Carbide Corporation  
Agent: MARV Marval, O'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.

Thursday, November 05, 1998

Trademark List

Page: 2

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR  
 Country: Australia  
 MR 1101  
 Renewing  
 A214,416 24-Oct-1998  
 Owner: Union Carbide Corporation  
 24-Oct-1988  
 Agent: CALL Callinan Lawrie

Classes: 1  
 Remarks: Associated with 187,860 and 214,417.  
 Assignment and Ch/Name recorded 1/22/93.  
 Merger & CH/Name recorded 1/15/97.

Goods: Graphite and carbon for general industrial uses.

UCAR  
 Country: Australia  
 MR 1102  
 Registered  
 A214417 24-Oct-2002  
 Owner: Union Carbide Corporation  
 24-Oct-1988  
 Agent: CALL Callinan Lawrie

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1104	Registered		60703	30-Nov-2007	
Country: Austria						30-Nov-1997		

Owner: Union Carbide Corporation

Agent: PUCH Patentanwälte Puchberger

Classes: 4 22B 23

Remarks: Assignment/change of name recorded 4/28/92.

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

Shared with Ralston.

Goods: Class 4: Flashlights, electric flashlights, lighting and heating apparatus, electric lamps, electric lamp bulbs, electric torches and parts thereof, heat exchangers and parts thereof, carbons for electric lighting purposes. Class 22B, physical, chemical and electro-technical apparatus, flashlight apparatus, flashlight bulbs, industrial-chemical installations, industrial-chemical installations in the form of scrubbing, adsorption, fractionating and stripping, towers and columns and parts thereof. 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. Class 23, apparatus for heating and hardening and plating metal, gas operated apparatus of this kind.

Thursday, November 05, 1998

### Trademark 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		1912	06-Jul-2001	

Country: Belize

Owner: Union Carbide Corporation  
Classes: 9

Remarks:

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.

UCAR MR 1106 Renewing 37050-A 29-Nov-1997  
Country: Bolivia Owner: Union Carbide Corporation  
Agent: LAND Landivar & Landivar

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.

Goods: Graphite and carbon for general industrial uses.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1107	Renewing		37043-A	29-Nov-1997	
Country: Bolivia	Owner: Union Carbide Corporation					29-Nov-1987		
	Agent: LAND Landivar & Landivar							
	Classes: 9							

Remarks: Assignment to UCC Holdings recorded 12/5/90.  
 Assignment to UCC recorded 2/7/91.  
 Merger and change/name recorded 1/23/96.

Goods: Electrodes and anodes and connecting pins for same.

UCAR	MR		1108	Registered		U.K. 1,000	06-Jul-2001	
Country: Botswana	Owner: Union Carbide Corporation					06-Nov-1987		
	Agent: ADAM Adams & Adams							
	Classes: 9							

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 anodes; electric apparatus included in class 9 for cutting, welding, soldering, brazing, scarfing, plating, heating and hardening metal, and carbons for electrical purposes.



Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1109	Registered		007175370	09-Mar-2000	
Country: Brazil						09-Mar-1990		
		Owner: Union Carbide Corporation						
		Classes: 6						
		Goods: Electrodes, anodes and connecting pins for electrodes and anodes.						
						Remarks: Merger/Ch of name recorded 6/11/96.		

UCAR			MR 1110	Registered		9244	04-Dec-2003	
Country: Bulgaria						04-Dec-1993		
		Owner: Union Carbide Corporation						
		Agent: MAGA Magaria V. Harizanova						
		Classes: 9						
		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 purposes.						
						Remarks: Assignment & Ch/name recorded. Merger/change of name 8/4/95.		

UCAR			MR 1111	Registered		171356	18-Sep-2000	
Country: Canada						18-Sep-1985		
		Owner: Union Carbide Corporation						
		Agent: SIM Sim & McBurney						
						Remarks: Associated with Reg. No. 161262. Assignment and change/name recorded 11/23/90. Merger and change/name recorded.		
		Goods: Graphite electrodes and connecting pins therefor						

Thursday, November 05, 1998

Trademark List

Page: 7

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR		MR	1113	Renewing		330814	18-May-1998	
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Country: Chile

Owner: Union Carbide Corporation

Agent: ESTU Estudio Federico Villaseca

Classes: 1 4 9

Remarks: Assignment and change/name recorded 2/7/90 and 4/6/90.  
 Merger and change/name recorded 3/15/96.

Goods: Natural mineral substances, elaborated and prepared for industrial use, especially graphite and carbon and all other goods in class 1.  
 Graphite and carbon used as lubricants or ingredients for various purposes, mineral greases and all other goods in class 4.  
 Electrodes, anodes and connecting pins for the same, electric batteries and dry cells (class 9).

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1114	Renewing		66,540	12-Feb-1993	

Country: Colombia

Owner: Union Carbide Corporation

12-Feb-1988

Agent: CAVE Caveller Abogados

Classes: 1

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 recorded 3/24/98, resolution no. 4856.

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

Thursday, November 05, 1998

Trademark List

Page: 9

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1117	Registered		1878/1969	11-Jul-1999	

Country: Denmark  
 Owner: Union Carbide Corporation  
 Agent: BUDD Budde Schou & Co.  
 Classes: 11

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

Page: 10

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR

1118

Registered

46210

24-May-2000

Owner: Union Carbide Corporation

Agent: BAKI Bakir International Office

Classes: 9

Remarks: Assignment and change name

published 3/1/92, issue 619.

Merger and change name recorded

11/27/97.

Goods: Electric batteries and electric dry cells, electrodes, anodes, connecting pins for electrodes and anodes being parts of these electrodes and anodes, carbon electrodes for use in motion picture projection apparatus.

UCAR

MR

1119

Registered

16595/40

29-Jan-1999

Country: El Salvador

Owner: Union Carbide Corporation

Agent: RICA Ricardo Romero-Guzman

29-Jan-1994

Classes: 12 22

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

Goods: Graphite and carbon for general industrial uses: electrodes and anodes and connecting pins for electrodes and anodes. Electric dry cells and batteries.

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1120	Pending	36590			
Country: European Community								
Owner: Union Carbide Corporation								
Agent: GEVE GEVERS & PARTNERS								
Classes: 1 2 9 19								
Remarks:								
<p><u>Designated Countries</u></p> <p>AT Pending</p> <p>BX Pending</p> <p>DE Pending</p> <p>DK Pending</p> <p>ES Pending</p> <p>FI Pending</p> <p>FR Pending</p> <p>GB Pending</p> <p>GR Pending</p> <p>IE Pending</p> <p>IT Pending</p> <p>MC Pending</p> <p>PT Pending</p> <p>SE Pending</p>								

Goods: Chemical products for use in industry, agriculture and personal care products, including synthetic organic chemicals and polymers, synthetic resins and plastics, adhesives, organic oxides, synthetic organic chemical solvents, chemical fuel additives, chemical viscosity improvers, de-icing fluids, compounds, compositions, and mixtures containing synthetic resins or plastics, carbon and graphite, and compounds, compositions and mixtures containing carbon or graphite, industrial gases, including acetylene, oxygen, hydrogen, nitrogen, argon, helium, neon, krypton and xenon and calcium carbide in Int. class 1. Chemical products for use in coatings, paints, varnishes and lacquers, metal and ceramic coating materials in Int. class 2. Electric dry cells and batteries, anodes, electrodes and cathodes, connecting pins for anodes and electrodes, and carbon and graphite for electrical purposes in Int. class 9. Products made partly or wholly of carbon and/or graphite in Int. class 19.

Thursday, November 05, 1998

Trademark List

Page: 12

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1121	Registered		50148 05-May-1997	05-May-2007	

Owner: Union Carbide Corporation  
 Agent: BERG Bergren OY AB

Classes: 9

Remarks: Merger and change name recorded  
 6/19/95.  
 Shared with Ralston.

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR  
 Country: France  
 MR 1122 Registered 736155 1408174 13-May-2007  
 Owner: Union Carbide Corporation 22-Jun-1967 13-May-1997  
 Agent: RINU Riny, Santarelli

Classes: 1 9 11  
 Remarks: Assignment and change name recorded 3/7/90.

Shared with Ralston.

Goods: 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 parts of 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, nuclear reactors, and industrial chemical installations, and carbons for electric lighting purposes.



Thursday, November 05, 1998

Trademark List

Page: 14

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1124	Registered		863961	17-Jul-2007	

Country: Germany

Owner: Union Carbide Corporation

17-Jul-1997

Agent: LOUI Louis, Polhau, Lohrentz & Sege

Classes: 6 7 9 11 17 19

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR  
 Country: Germany  
 MR 1126 Registered U7439/9WZ 1147030 25-Feb-1999  
 Owner: Union Carbide Corporation 25-Feb-1989 25-Feb-1989  
 Agent: LOUI Louis, Pohlan, Lohrenz & Sege

Classes: 9  
 Remarks: Assignment and change name recorded 2/20/92.  
 Merger and change name recorded 1/19/98.

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

UCAR	MR	1127	Registered	36265	30-Sep-2006
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Country: Greece  
 Owner: Union Carbide Corporation 30-Sep-1996  
 Agent: VAYA Vayanos Kostopoulos

Classes: 9  
 Remarks: Assignment and change name recorded 11/17/89.  
 Merger and change name recorded 12/20/96.  
 Shared with Ralston.

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1128	Registered		37849	18-Jul-2007	
Country: Greece						18-Jul-1997		

Owner: Union Carbide Corporation  
 Agent: VAYA Vayanos Kostopoulos

Classes: 11

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 purposes.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR  
 Country: Guatemala  
 Owner: Union Carbide Corporation  
 Agent: FERN Fernandez Y Fernandez S.A.  
 Classes: 9

Remarks: Assignment and change name recorded.

Goods: Electricity, machinery, supplies and electric apparatus and accessories for producing power, heat, and lights, telephony, telegraphy and wireless telegraphy, radiography, radiotelephony and radiotelephone and radiotelegraphy and especially. Electrodes and anodes and connecting pins for electrodes and anodes, electric dry cells and batteries.

UCAR	MR	1130	Renewing	6826A	18-Jul-1998
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Country: Guyana  
 Owner: Union Carbide Corporation  
 Agent: POON N.O. Poonai  
 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.

Thursday, November 05, 1998

Trademark List

Page: 18

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1131	Renewing		49671	15-Jul-1998	

Country: Honduras

Owner: Union Carbide Corporation

15-Jul-1988

Agent: BUFE Bulete Mejia & Asociados

Classes: 9

Remarks: This is old Reg. No. 14,794 broken

down into separate classes.

Assignment and name change

recorded 10/90.

Goods: Electric batteries, electrodes, anodes, cathodes and connecting pins for electrodes and anodes.

UCAR

1132

Registered

116905

12-Oct-2003

Country: Hungary

Owner: Union Carbide Corporation

12-Oct-1993

Agent: SBGK S.B.G.Z. & K. Patent and Law O

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.

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

Thursday, November 05, 1998

Trademark List

Page: 19

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR  
 Country: Indonesia

MR 1133 Unfiled 218540 218540  
 Owner: Union Carbide Corporation  
 Agent: AMRO Amroos Law Consultants  
 Classes: 1 9  
 Remarks: Merger and change/name recorded 5/28/97.

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

UCAR  
 Country: Israel

MR 1135 Registered 32597 02-Sep-2005  
 Owner: Union Carbide Corporation  
 Agent: MULF A.E. Mulford  
 Classes: 9  
 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 electric welding and for use in spectroscopic apparatus, anodes and connecting pins for electrodes and anodes.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1136	Registered		32598	21-Sep-2005	
Country: Israel								

Owner: Union Carbide Corporation

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, shaped sections of carbon or graphite for the construction and lining of furnaces cupolas, industrial heating installations and included in class 11. Nuclear reactors not included in other classes and industrial chemical installations included in class 11, carbons for electric lighting purposes, ARC carbons for use in motion picture projectors and in therapeutic apparatus.

Thursday, November 05, 1998

Trademark List

Page: 21

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR 1137 Renewing 220866 531802 28-Jul-1997

Owner: Union Carbide Corporation  
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.



Thursday, November 05, 1998

Trademark List

Page: 22

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1138	Registered		14,925	16-May-2002	
Country: Kenya						16-May-1988		

Owner: Union Carbide Corporation  
 Agent: KAPL Kaplan & Stratton  
 Classes: 9  
 Remarks: Assignment recorded 11/15/89.  
 Change name recorded 10/23/89.

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.

UCAR	MR	1139	Registered	27/66	15-Feb-2001
Country: Malawi					

Owner: Union Carbide Corporation  
 Agent: JOHN John & Kernick  
 Classes: 9  
 Remarks: Assignment change name record 12/8/89.  
 Merger and change name recorded 4/21/95.

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.

Thursday, November 05, 1998

Trademark List

Page: 23

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR 1141 Pending 92/08323

Owner: Union Carbide Corporation  
Agent: SHEA Shearn Delamore  
26-Nov-1992

Classes: 9

Remarks: Associated with 92/08322,  
92/08321, 92/08320, 88/02536,  
R/18255.

Goods: Graphite electrodes and graphite dies, namely,  
specially graphite for casting applications such  
as molds and dies.

UCAR

MR 1141 Pending 92/08320

Owner: Union Carbide Corporation  
Agent: SHEA Shearn Delamore  
26-Nov-1992

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  
bricks, pastes, cement and thermocouple  
protection tubes, water spray-cooled systems  
and furnace operating systems for electric arc  
melting furnaces.

Thursday, November 05, 1998

Trademark List

Page: 24

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

Country: Mexico	MR		1142	Registered		142536	06-Sep-2002	
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Owner: Union Carbide Corporation

Agent: BECE Becerril, Coca & Becerril, S.

Classes: 1

Remarks: Assignment and change/name recorded.

Merger recorded 2/20/95;

change/name recorded 12/7/95.

Goods: Graphite and carbon for general industrial uses.

UCAR

Country: Mexico	MR		1143	Registered		146,448	06-Sep-2002	
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Owner: Union Carbide Corporation

Agent: BECE Becerril, Coca & Becerril, S.

Classes: 21

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

Country: New Zealand	MR		1144	Registered		85500	24-Oct-2002	
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Owner: Union Carbide Corporation

Agent: PARK A.J. Park & Son

Classes: 1

Remarks: Assignment recorded.

Merger and change name recorded per letter 12/8/95.

Associated with Reg. No. 85501.

Goods: Graphite and carbon for general industrial uses.

Thursday, November 05, 1998

### Trademark List

Page: 25

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR

MR 1145 Registered 85501 24-Oct-2002  
Owner: Union Carbide Corporation  
Agent: PARK A.J. Park & Son

Classes: 9

Remarks: Assignment recorded.

Merger and change name recorded.

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

UCAR	MR	1147	Renewing	18420	20-Oct-1998
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Country: Nicaragua

Owner: Union Carbide Corporation  
Agent: GUY Guy J. Bendana Guerrero & Asso  
Classes: 24  
Remarks: Assignment recorded 9/3/91.  
Change name recorded 10/23/91.

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

Thursday, November 05, 1998

Trademark List

Page: 26

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR			MR	1149	Registered	30383	26-Jul-1991	26-Jul-2001
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Country: Panama

Owner: Union Carbide Corporation

26-Jul-1991

Agent: ARIAS Arias, Fabrega & Fabrega

Classes: 1

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, including structures for the construction of industrial equipments.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1150	Registered		14528		26-Jul-2001

Country: Panama

Owner: Union Carbide Corporation

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

Assignment and change/name recorded.

Merger and change/name recorded.

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

Thursday, November 05, 1998

### Trademark List

Page: 28

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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Country: Paraguay

MR 1154

Renewing

126872

21-Oct-1997

Owner: Union Carbide Corporation  
Classes: 1

Remarks: Assignment recorded 2/13/90.  
21-Oct-1987

Change of name recorded 4/12/93.  
Merger and change name recorded 4/96.

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

UCAR

Country: Paraguay

MR 1155

Renewing

126873

21-Oct-1997

Owner: Union Carbide Corporation

21-Oct-1987

Agent: ABEN Abentesaguier

Classes: 9

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

Page: 29

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR

MR

1156

Registered

12169

19-Jul-2002

Owner: Union Carbide Corporation

19-Jul-1992

Agent: ESTU Estudio Barrada 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	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR

1157

Registered

12170

19-Jul-1992

19-Jul-2002

Owner: Union Carbide Corporation

Agent: ESTU Estudio Barrera Moller

Classes: 9

Remarks: Opposition against Ukocar upheld; registration denied.

Assignment and change/name recorded 6/20/90.

Merger and change/name recorded 8/9/95.

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.

UCAR

MR

1158

Registered

57120

02-Feb-2006

Owner: Union Carbide Corporation

Agent: SOJUZ Sojuzpatent

Classes: 9

Remarks: Assignment and change/name recorded 9/10 and 9/11/90.

Not required to record merger/change of name per agents. Ralston not interested in maintaining.

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.

Country: Russian Federation

Thursday, November 05, 1998

Trademark List

Page: 31

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR		MR	1159	Registered	S/41618	41618	08-May-2002	
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Country: Singapore

Owner: Union Carbide Corporation

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.

UCAR		MR	1160	Registered		44159	17-Jun-2003	
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Country: Singapore

Owner: Union Carbide Corporation

Agent: DREW Drew & Napier

Classes: 11

Remarks:

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

Thursday, November 05, 1998

Trademark List

Page: 32

Trademark Name

Division

Attorney(s)

Case Number

Status

Application Number/Filing

Registration Number/Date

Renewal Date

First Use Date

UCAR

MR

1161

Registered

65/5071

06-Dec-2005

Country: South Africa

Owner: Union Carbide Corporation

06-Dec-1995

Agent: ADAM Adams & Adams

Classes: 9

Remarks: Associated with No. 65/3669.

Assignment to UCC Holding recorded and RUS cancelled 7/17/90.

Change/name recorded 2/15/91.

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.

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1162	Registered		535591	30-May-2007	

Country: Spain

Owner: Union Carbide Corporation

Agent: POLO Carlos Polo

Classes: 9

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.

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1163	Registered		540629	30-May-2000	
Country: Spain								
		Owner: Union Carbide Corporation						
		Agent: POLO Carlos Polo						
		Classes: 11						

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR	MR		1165	Registered		120714	18-Aug-2007	
Country: Sweden	Owner: Union Carbide Corporation					18-Aug-1997		

Agent: ALBI Albilins Patentbyra Stockholm A

Classes: 7 9 11

- Remarks: (1) Consent: Puck Products Chimiques (Ukapor) Sweden.  
 (2) Consent: Schering A.G. in Sweden.  
 (3) Consent: Speri S.P.A. in Sweden.  
 (4) Consent: Ucan Greenman Ltd. In Sweden.  
 (5) Consent: Westvaco Corporation.  
 (6) Assignment and ch/name recorded 4/26/90.  
 (7) Merger & ch/name recorded 1/5/96.  
 (8) Shared with Ralston.

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

Thursday, November 05, 1998

### Trademark List

Page: 36

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR

1166

Registered

122354

26-Jan-1998

26-Jan-2008

Owner: Union Carbide Corporation

Agent: ALBI Albinus Patentbyrå Stockholm A

Classes: 1

Remarks: Assignment and ch/name recorded

4/26/90.

Merger and ch/name recorded

1/5/96.

Goods: Graphite and carbon for general industrial uses.

UCAR

MR

1167

Registered

43922

31-Oct-2000

Country: Taiwan

Owner: Union Carbide Corporation

Agent: LEE Lee and Li

Classes: 69

Remarks: Assignment & ch/name recorded

7/27 and 9/7/90.

Merger & ch/name not required to be recorded.

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

Page: 37

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR  
Country: Tonga  
MR 1168 Registered 1005 06-Jul-2001  
Owner: Union Carbide Corporation  
Classes: 9  
Remarks: Assignment and change/name not recorded.

Not doing business in Tonga; allow to lapse per client.

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.

UCAR  
Country: United Kingdom  
MR 1169 Renewing 896862 06-Jul-1997  
Owner: Union Carbide Corporation  
Classes: 9

Remarks: (1) Associated with No. 865,946. 06-Jul-1966  
(2) consent: Ucan Greeman Ltd. In U.K. (3) Assignment ch/name recorded 1/17/92. (4) Merger recorded 1/26/95. (5) Change of name recorded. (6) Shared with Ralston.

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 electric purposes.



Thursday, November 05, 1998

Trademark List

Page: 38

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR

MR  
Owner: Union Carbide Corporation  
Classes: 11

Renewing

909435

12-May-1998

Remarks: (1) Associated with No. 896,862.  
In U.K.  
(2) Consent: Ucan Greenman Ltd.  
(3) Assignment & ch/name recorded 1/17/92.  
(4) Merger recorded 1/26/95.  
(5) Change of name recorded.

Goods: Graphite and carbon heating and lighting elements.

Thursday, November 05, 1998

Trademark List

Page: 39

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR Country: United Kingdom

MR			1171	Registered		1056849	29-Dec-2006	
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Owner: Union Carbide Corporation  
Agent: GSCP The GSCP Partnership

Classes: 11

Remarks: (1) Consent: Ucan Greenman Ltd.

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.

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.

UCAR

MR 1172

Registered

864455

04-Feb-2009

Country: United States of America

Owner: Union Carbide Corporation  
Classes: 19

04-Feb-1969

Remarks: Merger & ch/name recorded

2/11/95.

Goods: Graphite pipe slide support sets.

Thursday, November 05, 1998

Trademark List

Page: 40

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR  
Country: United States of America  
Owner: Union Carbide Corporation  
Agent: MRD Margaret Ranft Day  
Classes: 9  
Goods: Electrolytic anodes.  
Remarks: Merger & ch/name recorded 2/11/95.

UCAR  
Country: United States of America  
Owner: Union Carbide Corporation  
Agent: ACFT Assistant Commissioner for Tra  
Classes: 19  
Goods: Carbon brick.  
Remarks: Merger & ch/name recorded 2/21/95.

UCAR  
Country: United States of America  
Owner: Union Carbide Corporation  
Agent: MRD Margaret Ranft Day  
Classes: 24  
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)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

UCAR

Country: United States of America  
Owner: Union Carbide Corporation  
Classes: 19

MR 1178 Registered  
Remarks: Merger and ch/name recorded  
10/14/94. 04-Sep-1973

967344 04-Sep-2003

Goods: 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, 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 protective layers in welding operations.

UCAR

Country: United States of America

Owner: Union Carbide Corporation  
Classes: 9

MR 1180 Registered  
Remarks: Merger & ch/name recorded  
2/21/95. 27-Nov-1973

973945 27-Nov-2003

Goods: Metal ceramic thermocouple protecting tubes.

UCAR

Country: United States of America

Owner: Union Carbide Corporation  
Classes: 1

MR 1182 Registered  
Remarks: Merger & ch/name recorded  
2/21/95. 08-Apr-1975

1008278 08-Apr-2005

Goods: Unmachined carbon and graphite.

Thursday, November 05, 1998

### Trademark List

Page: 42

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1184	Registered	73/018646	1014143	24-Jun-2005	
Country: United States of America					12-Apr-1974	24-Jun-1975		
					Remarks: Merger & ch/name recorded 2/21/95.			
					Goods: Graphite pipe.			
UCAR		MR	1185	Registered		1016291	22-Jul-2005	
Country: United States of America								
					Remarks: 22-Jul-1975			
					Goods: Carbon electrodes.			
UCAR		MR	1186	Registered		1173765	20-Oct-2001	
Country: United States of America								
					Remarks: 8 & 15 Affidavit accepted 5/6/88.			
					Merger & ch/name recorded 2/21/95.			
					Goods: Graphite powder for various uses in the industrial arts.			

Thursday, November 05, 1998

Trademark List

Page: 43

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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Country: United States of America

Owner: Union Carbide Corporation  
Classes: 11

MR 1187 Registered 1496686 19-Jul-2008

Remarks: (1) Opposition filed against Icar, 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).

UCAR

Country: United States of America

Owner: Union Carbide Corporation  
Classes: 9

MR 1188 Registered 74/095358 1692647 09-Jun-2002

Remarks: Merge & ch/name recorded 10-Sep-1990 09-Jun-1992  
2/21/95. 8 & 15 filed 6/5/98.

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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR			MR 1189	Registered	74/240160	1756549	09-Mar-2003	
Country: United States of America								
		Owner: Union Carbide Corporation			27-Jan-1992	09-Mar-1993		
		Classes: 9			Remarks: 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).						
UCAR			MR 1190	Registered	246632	05-Feb-1971	23-Apr-2002	
Country: Uruguay								
		Owner: Union Carbide Corporation						
		Agent: BARB Barbosa Caravia & Co.						
		Classes: 9			Remarks: 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.			
		Goods: Graphite and carbon for general industrial uses.						
UCAR			MR 1191	Renewing	65826-F	07-Jul-1971	07-Jul-1996	
Country: Venezuela								
		Owner: Union Carbide Corporation						
		Agent: BENT Bentata Hoet & Asociados						
		Classes: 21			Remarks: Assignment, ch/name recorded 3/17/92.			
		Goods: Electrodes and anodes and connecting pins for electrodes and anodes; electric dry cells and batteries.						

Thursday, November 05, 1998

### Trademark List

Page: 45

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR		MR	1192	Pending	13888			

Country: Venezuela

Owner: Union Carbide Corporation

Agent: BENT Bentata Hoel & Asociados

04-Aug-1988

Remarks: Appln. Replaces reg no. 65,825-F  
lapsed due to failure by Balogh to  
renew.

UCAR Goods: Graphite and carbon for general industrial use.

Country: Yugoslavia	MR	1193	Renewing	Z586/73	23099	25-Jun-1998
	Owner: Union Carbide Corporation			25-Jun-1978	25-Jun-1988	
	Agent: MIKI Mikičej & Jančović					
	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.  
Merger ch/name recorded 11/97.

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, 1998

Trademark List

Page: 46

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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UCAR

MR

1194

Registered

724/65

06-Dec-2000

Owner: Union Carbide Corporation

06-Dec-1965

Agent: ADAM Adams & Adams

Classes: 9

Remarks: Merger & ch/name recorded 8/8/95.

Goods: Electric dry cells, electric batteries, electrodes;

anodes connecting pins for electrodes and

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.

UCAR

MR

1195

Registered

994/65

06-Dec-2006

Owner: Union Carbide Corporation

06-Dec-1996

Classes: 9  
Remarks: Assignment & ch/name recorded  
9/28/89

Goods: Electric dry cells, electric batteries; electrodes,

anodes, connecting pins for electrodes and

anodes; electric welding apparatus (not

machines); carbons for electric purposes (other

than for lighting); electric soldering irons;

foundry moulds and foundry cores, all made of  
carbon or of graphite.

Country: Zimbabwe

Thursday, November 05, 1998

**Trademark List**

Page: 47

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
UCAR (STYLIZED)		MR	1196	Pending	97/703816			
Country: Russian Federation								

Owner: Union Carbide Corporation  
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 and dies.

# 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**

**UCAR**

**BUSINESS CONFIDENTIAL**

**TRADEMARK**

**REEL: 1826 FRAME: 0187**

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
C-CAT			MR 1003	Registered	74/455328	2051081	08-Apr-2007	25-Feb-1995
Country: United States of America								
		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		Remarks:	08-Nov-1993	08-Apr-1997		
DURABURN			GSPEC MR 1202	Pending				
Country: United States of America								
		Owner: UCAR Carbon Technology Corp.						
		Classes: 1, 17, 19						
		Goods: graphite blocks for use in electric discharge machining		Remarks: Search ordered 10/7/98. Request to file application 10/15/98. Application filed via express mail 10/27/98.	27-Oct-1998			
DURACAST			GSPEC MR 1005	Registered	0592/95	2532/95	21-Apr-2005	
Country: Denmark								
		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.		Remarks:	25-Jan-1995	21-Apr-1995		

Thursday, November 05, 1998

Trademark List

Page: 2

Trademark Name

Division

Attorney(s)

Case Number

Status

Application Number/Filing

Registration Number/Date

Renewal Date

First Use Date

DURACAST

Country: Finland

Owner: UCAR Carbon Technology Corp.

Agent: BERG Berggren OY AB

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

Country: France

Owner: UCAR Carbon Technology Corp.

Agent: RINU Rinny, Santarelli

Classes: 19

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

Country: Germany

Owner: UCAR Carbon Technology Corp.

Agent: LOUI Louis, Pohlan, Lohrentz & Sege

Classes: 19

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

Country: Ireland, Republic of

Owner: UCAR Carbon Technology Corp.

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

Thursday, November 05, 1998

Trademark List

Page: 3

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

Thursday, November 05, 1998

Trademark List

Page: 4

Trademark Name

Division

Attorney(s)

Case Number

Status

Application Number/Filing

Registration Number/Date

Renewal Date

First Use Date

DURACAST

GSPEC MR

1014

Registered

1948738

02-Feb-2005

Country: Spain

Owner: UCAR Carbon Technology Corp.

Agent: POLO Carlos Polo

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

GSPEC MR

1015

Registered

95-0785

307141

22-Dec-2005

Country: Sweden

Owner: UCAR Carbon Technology Corp.

Agent: ALBI Albinus Parenbyra Stockholm A

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

GSPEC MR

1016

Registered

2009155

2009155

27-Jan-2005

Country: United Kingdom

Owner: UCAR Carbon Technology Corp.

Agent: GRAN Grant, Spencer, Caisley & Port

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

GSPEC MR

1017

Registered

74/454090

2003368

24-Sep-2006

Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 19

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

Thursday, November 05, 1998

Trademark List

Page: 5

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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DURAPRESS

Country: United States of America  
 GSPEC MR 1200 Pending  
 Owner: UGAR Carbon Technology Corp.  
 Classes: 1  
 Goods: artificial graphite for use in industrial hot pressing of metallic powders  
 Remarks: 13-Jul-1998

EXPANDOGRAF

Country: United States of America  
 MR 1023 Registered  
 Owner: UGAR Carbon Technology Corp.  
 Classes: 17  
 Goods: Flexible graphite sheet gasket material for use in industrial applications.  
 Remarks: Statement of Use accepted 8/6/98.  
 08-Nov-1996 15-Sep-1998  
 75/194888 2189843 15-Sep-2008 23-Dec-1997



**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFGUARD	MR		1028	Published	327,031			
Country: European Community								
Owner: UCAR Carbon Technology Corp								
Agent: GEVE GEVERS & PARTNERS								
<u>Designated Countries</u>								
BX	Published							
DE	Published							
DK	Published							
ES	Published							
FI	Published							
FR	Published							
GB	Published							
GR	Published							
IE	Published							
IT	Published							
MC	Published							
PT	Published							
SE	Published							

Classes: 1  
 Goods: Graphite particles for use in the manufacture of fire retardant products in int. class 1.

Remarks:

GRAFGUARD	MR		1028	Registered	113097/96	4166366		10-Jul-2008
Country: Japan								
Owner: UCAR Carbon Technology Corp.								
Agent: SUZU Suzuye & Suzuye								
Classes: 1								
Remarks: Renewal due between 6/11/07 and 7/10/08.								
Goods: Graphitic particles for use in the manufacture of fire retardant products, in Int. Class 1.								

**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFGUARD		MR	1029	Registered	75/106979	2111370	04-Nov-2007	
Country: United States of America	Owner: UCCAR Carbon Technology Corp. Classes: 9			Remarks: Also searched charged. 20-May-1996 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).	04-Nov-1997			
	Goods: 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	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFKOTE			MR	1030	Registered	74/217903	1812925	21-Dec-2003
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Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 17

Remarks: Also conducted full searches for  
01-Nov-1991 21-Dec-1993

Graphkoke Grafkene and  
Graphlene. Additional preliminary  
searches were conducted for  
Monofilm, Monograf, Monofoil,  
Soloseal, Solograf, Grafplas, Graf-  
plus, Grafilm, Thermocarb, Plasti-  
Kote, Super-Graf, Tuff-Foil and  
Extra.

Consent given by Dixon  
Ticonderoga to use GRAFKOTE for  
restricted goods: flexible graphite  
and polymer composite sheets and  
rolls.

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: UCAR Carbon Technology Corp.  
Classes: 1

MR

1203

Pending

Remarks: ITU application filed via express  
21-Oct-1998  
mail 10/21/98.

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

Thursday, November 05, 1998

Trademark List

Page: 9

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL

Country: Argentina

MR			1034	Renewing		1278798	08-Mar-1998	
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Owner: UCAR Carbon Technology Corp.  
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.

Goods: Carbon and graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbon, foam, strands, filaments, for textile use.

GRAFOIL

Country: Argentina

MR			1035	Renewing		1278797	08-Mar-1998	
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Owner: UCAR Carbon Technology Corp.  
Agent: MARV Marval, O'Farrell & Mairal  
Classes: 17

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.

Goods: Carbon and graphite in the form of flexible webs, cloth, individual or laminated sheets, strips, tapes, ribbon, foam, strands, filaments, other than for textile use.

GRAFOIL

Country: Argentina

MR			1036	Registered		1381802	31-May-2000	
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Owner: UCAR Carbon Technology Corp.  
Agent: MARV Marval, O'Farrell & Mairal  
Classes: 17

Goods: Gaskets and packing rings.

Remarks:

Thursday, November 05, 1998

Trademark List

Page: 10

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

Country: Australia

Owner: UCAR Carbon Technology Corp.

Agent: CALL Callinan Lawrie

Classes: 17

Remarks: Assignments recorded 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 goods included in this class.

GRAFOIL

Country: Brazil

Owner: UCAR Carbon Technology Corp.

Agent: DANI Daniel & Cia

MR	1038	Registered	750133090	750133090	14-Nov-2004
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16-Jul-1975 14-Nov-1995

Remarks: Opposition filed against Nacional

de Grafite Ltda. - GRAFOIL appln. No. 820695084 - 9/98.

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

816459495 - court action pending as of 10/98.

Goods:

Thursday, November 05, 1998

### Trademark List

Page: 11

Trademark Name

Division

Attorney(s)

Case Number

Status

Application Number/Filing

Registration Number/Date

Renewal Date

First Use Date

GRAFOIL

Country: Canada

MR

1040

Registered

137196

04-Sep-2009

Owner: UCAR Carbon Technology Corp.

04-Sep-1964

Agent: SIM Sim & McBurney

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.

GRAFOIL

Country: China

MR

1041

Registered

162830

162830

28-Sep-2002

Owner: UCAR Carbon Technology Corp.

30-Sep-1982

29-Sep-1992

Agent: CCPIT CCPIT Patent and Trademark Law

Classes: 15

Remarks: Assignment and license recorded.

Goods: Carbon and Graphite flexible webs, sheets, strips, tape, foam, strands and filaments.

Thursday, November 05, 1998

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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Country: Colombia

MR 1042 Registered 375258 206335 28-Jan-2008

Owner: UCAR Carbon Technology Corp. 11-Feb-1993 29-Jan-1998

Agent: CAVE Cavelier Abogados

Classes: 17

Remarks: This record was entered 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.

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  
 and insulating materials; flexible pipes, not of  
 metal.

GRAFOIL

Country: Colombia

MR 1043 Registered 375259 152993 28-Feb-2004

Owner: UCAR Carbon Technology Corp. 11-Feb-1993 28-Feb-1994

Agent: CAVE Cavelier Abogados

Classes: 1

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

Goods:

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL		MR	1044	Registered		674/1981	13-Feb-2001	

Owner: UCAR Carbon Technology Corp.  
 Agent: BUDD Budde Schou & Co.

Classes: 17

Remarks: Assignment recorded 2/7/90.

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

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

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

DE Registered

webs, cloths, individual or laminated sheets,

DK Registered

strips, tapes, ribbons, foam, strands and

ES Registered

filaments in Int. Class 1. Gaskets, packing

FI Registered

rings, insulating and sealing materials in Int.

FR Registered

Class 17.

GB Registered

GR Registered

IE Registered

IT Registered

MC Registered

PT Registered

SE Registered

Thursday, November 05, 1998

Trademark List

Page: 15

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL		MR	1046	Registered		7,816	06-Oct-2000	

Country: Finland  
 Owner: UCAR Carbon Technology Corp.  
 Agent: BERG Berggren OY AB  
 Classes: 1 17

Remarks: Assignment recorded 12/31/89.  
 License recorded 12/14/89.

GRAFOIL

Country: Greece

MR 1047  
 Owner: UCAR Carbon Technology Corp.  
 Agent: VAYA Vayanos Kostopoulos  
 Classes: 17

Registered

59,625

05-Sep-2007

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 1/24/90. Petition to record license filed.

GRAFOIL

Country: Ireland, Republic of

MR 1050  
 Owner: UCAR Carbon Technology Corp.  
 Agent: KELL F.R. Kelly & Co.  
 Classes: 1

Registered

6094/92

154738

18-Nov-1999

18-Nov-1992

18-Nov-1992

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.  
 Remarks:

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application 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. Agent: KELL F.R. Kelly & Co.			18-Nov-1992	18-Nov-1992		
	Classes: 17			Remarks: Associated with GRAFOIL appln. No. 6094/92. Worldwide consent with Societe Gravograph (GRAVOFOIL).				
	Goods: gaskets and packing rings							
GRAFOIL	MR		1052	Registered		1664036	23-Feb-2004	
Country: Japan		Owner: UCAR Carbon Technology Corp. Agent: SUZU Suzuye & Suzuye				23-Feb-1984		
	Classes: 34			Remarks: Original certificate lost (sent to Traub 3/84) Assignment recorded 11/5/90.				
	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. Agent: SUZU Suzuye & Suzuye			06-Jun-1988	30-Aug-1991		
	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.							

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL  
 Country: Mexico  
 MR 1056 Registered 201991 10-Jan-2002  
 Owner: UCAR Carbon Technology Corp.  
 Agent: BECE Becerril, Coca & Becerril, S.  
 Classes: 35

Remarks: Assignment and license recorded 2/9/93.  
 Goods: Gaskets and packing rings.

GRAFOIL  
 Country: Mexico  
 MR 1057 Registered 202353 10-Jan-2002  
 Owner: UCAR Carbon Technology Corp.  
 Agent: BECE Becerril, Coca & Becerril, S.  
 Classes: 13

Remarks: Assignment and license recorded 2/3/93.  
 Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments.

GRAFOIL  
 Country: New Zealand  
 MR 1058 Registered 120039 12-Jul-2012  
 Owner: UCAR Carbon Technology Corp.  
 Classes: 17

Remarks: Assignment recorded 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.

**Trademark List**

Trademark Name	Division	Attorney(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.							
	Agent: BERG Bergen Patentkontor							
	Classes: 17							
	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 and license recorded 10/4/89.							
GRAFOIL		MR	1061	Registered	95298	95298	17-Dec-2017	
Country: Philippines								
	Owner: UCAR Carbon Technology Corp.							
	Agent: SIGU Signion Reyna, Montecillo & On							
	Classes: 9							
	Goods: Graphitic in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.							
	Remarks: This application replaces Reg. No. 25,533.							
GRAFOIL		MR	1064	Registered	75/3634	75/3634	14-Jul-2005	
Country: South Africa								
	Owner: UCAR Carbon Technology Corp.							
	Agent: ADAM Adams & Adams							
	Classes: 17							
	Goods: Carbon and Graphite in the form of flexible webs, cloths, individual filaments, gaskets and packing rings.							
	Remarks: Assignment recorded 9/7/90.							

Trademark List

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.			10-Nov-1978	10-Nov-1988		
		Agent: ALBI Aibinis Patentbyra Stockholm A						
	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.							
GRAFOIL	MR		1068	Pending	87013219			
Country: Taiwan		Owner: UCAR Carbon Technology Corp.			24-Mar-1998			
		Agent: LEE Lee and Li						
	Classes: 17			Remarks: [Replaces 87,440 - covered goods not in use]				
	Goods: Gaskets and packing rings.							
GRAFOIL	MR		1069	Pending	87013218			
Country: Taiwan		Owner: UCAR Carbon Technology 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.							

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL		MR	1070	Registered	59627	99456	12-Sep-2007	
Country: Turkey					12-Sep-1977	12-Sep-1997		

Owner: UCAR Carbon Technology Corp.  
 Agent: DERJIS Dertis Patents and Trademark Ag

Remarks: Assignment recorded 1990.

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	1071	Registered	938730	938730	25-Feb-2004	
Country: United Kingdom					25-Feb-1969	25-Feb-1990		

Owner: UCAR Carbon Technology Corp.  
 Agent: GRAN Grant, Spencer, Caisley & Port

Classes: 17

Remarks: Consent obtained from Courtaulds Ltd. 1/20/71.  
 Assignment recorded 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 packing rings, all made from the aforesaid materials.

GRAFOIL		MR	1072	Registered	758239	15-Oct-2003		
Country: United States of America					15-Oct-1983			

Owner: UCAR Carbon Technology Corp.  
 Classes: 1

Remarks: High Temperature Materials, Inc. merged with UCC 3/1/66, recorded 3/29/66, Reel 136 Frame 526.

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)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL			1073	Registered		850235	04-Jun-2008	
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 17								
Goods: Gaskets and packing rings.								
Remarks:								

GRAFOIL			1204	Pending				
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 1								
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, punns or sliding joints.								
Remarks: New application filed after 1196891 cancelled.								

GRAFOIL			1076	Registered	84627	84627	22-Jul-2007	
Country: Venezuela								
Owner: UCAR Carbon Technology Corp.								
Agent: VALL Vallina Grisanti & Asociados								
Classes: 1								
Remarks: Assignment recorded 1/3/94.								

Oppositions filed against GRAFOIL applications filed by Juan Fernandez Martinez, pending as of 10/98.

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foan, strands, filaments.



Thursday, November 05, 1998

Trademark List

Page: 22

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAPHI-TOOL			MR 1084	Registered	6100/92	154737	18-Nov-1999	
Country: Ireland, Republic of		Owner: UCAR Carbon Technology Corp. Agent: KELL F.R. Kelly & Co.			18-Nov-1992	18-Nov-1992		
		Classes: 7		Remarks:				
		Goods: Graphite tooling systems used in tooling carbon and/or graphite composites for use in the defense, satellite and aerospace industries.						
GRAPHI-TOOL			MR 1085	Registered	81063363	614602	30-Sep-2003	
Country: Taiwan		Owner: UCAR Carbon Technology Corp. Agent: LEE Lee and Li			23-Dec-1992	10-Oct-1993		
		Classes: 84		Remarks:				
		Goods: Graphite tooling machines.						
GRAPHI-TOOL			MR 1086	Registered		1518774	13-Nov-1999	
Country: United Kingdom		Owner: UCAR Carbon Technology Corp. Agent: GRAN Grant, Spencer, Caisley & Port				13-Nov-1992		
		Classes: 7		Remarks:				
		Goods: Machine tools, parts and fitting for all the aforesaid goods, all included in Class 7.						
GRAPHI-TOOL			MR 1087	Registered	073356	1702837	28-Jul-2002	
Country: United States of America		Owner: UCAR Carbon Technology Corp. Classes: 7			27-Jun-1990	28-Jul-1992		
		Goods: Graphite tooling systems used in tooling carbon and/or graphite composites for use in the defense, satellite and aerospace industries.		Remarks: Section 8 & 15 accepted 3/23/98.				

Thursday, November 05, 1998

### Trademark List

Page: 24

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GSP			MR 1088	Registered	723111	1546426	04-Jul-2009	09-Sep-1987
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 17								
Remarks: Sections 8&15 accepted 12/11/95.								
Goods: Flexible graphite packing material used for fluid sealing in pumps and valves in the valve and pump packing industry.								

GTS			MR 1089	Registered	784266	1569027	05-Dec-1999	07-Apr-1988
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Agent: ACFT Assistant Commissioner for Tra								
Classes: 1								
Remarks: Sections 8 & 15 accepted 12/4/95.								
Goods: Graphitic paste used as pipe thread sealant, in Class 1.								

PYROFOAM			MR 1091	Registered		177988		27-Aug-2001
Country: Canada								
Owner: UCAR Carbon Technology Corp.								
Agent: SIM Sim & McBurney								
Remarks:								
Goods: Carbon and Graphite foam sold in sheet, bar and billet form for general use in the industrial arts.								

RIBBON-PACK			MR 1093	Registered	723722	1541522		30-May-2009
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 17								
Remarks: Sections 8 & 15 accepted 3/25/96.								
Goods: Flexible graphite packing materials used for fluid sealing in pumps, valves and related components.								

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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SMART RAM			MR 1094	Registered	74/170580	1727628	27-Oct-2002	18-Apr-1991
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 19								
Remarks: Sections 8 & 15 accepted 3/3/98.								
Goods: Refractory ramming mixes, in class 19.								

SOCKET MARKING FOR ELECTRODES			MR 1095	Registered		418218	11-Dec-2005	
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 19								
Remarks:								
Goods: Carbon electrodes and graphite electrodes.								

SUPER GTO			MR 1096	Pending	75/309150			
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 17								
Remarks:								
Goods: Flexible graphite sheets for use in internal combustion engines and automotive heat shielding applications in Int. Class 1.								
Remarks: 16-Jun-1997								

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
C-CAT			MR 1003	Registered	74/455328	2051081	08-Apr-2007	25-Feb-1995
Country: United States of America		Owner: UCAR Carbon Technology Corp. Classes: 1		Remarks:	08-Nov-1993	08-Apr-1997		
		Goods: Carbonaceous cement catalyst for joining or bonding carbon and graphite products, namely, electrodes, bricks, cathode blocks, specialty graphite and refractory shapes						
DURABURN			GSPEC MR 1202	Pending				
Country: United States of America		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.	27-Oct-1998			
		Goods: graphite blocks for use in electric discharge machining						
DURACAST			GSPEC MR 1005	Registered	0592/95	2532/95	21-Apr-2005	
Country: Denmark		Owner: UCAR Carbon Technology Corp. Agent: BUDD Budde Schon & Co. Classes: 19		Remarks:	25-Jan-1995	21-Apr-1995		
		Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.						

Thursday, November 05, 1998

**Trademark List**

Page: 2

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
DURACAST			GSPEC MR 1006	Registered	490/95	143965	20-May-2006	
Country: Finland								
			Owner: UCAR Carbon Technology Corp.					
			Agent: BERG Bergren OY AB		30-Jan-1995	20-May-1996		
			Classes: 1					
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
			Remarks:					
DURACAST			GSPEC MR 1007	Registered		95/559,893	23-Feb-2005	
Country: France								
			Owner: UCAR Carbon Technology Corp.					
			Agent: RINU Rimy, Santarelli					
			Classes: 19					
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
			Remarks:					
DURACAST			GSPEC MR 1008	Registered	395036054	39503605	28-Sep-2005	
Country: Germany								
			Owner: UCAR Carbon Technology Corp.					
			Agent: LOUI Louis, Pohlau, Lohrenz & Sege		28-Jan-1995	28-Sep-1995		
			Classes: 19					
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
			Remarks:					
DURACAST			GSPEC MR 1009	Registered	1146/95	173285	17-Feb-2002	
Country: Ireland, Republic of								
			Owner: UCAR Carbon Technology Corp.					
			Classes: 1					
			Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.					
			Remarks:		17-Feb-1995	17-Feb-1995		

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
DURACAST	GSPEC MR		1010	Registered	96718	96718	25-Jan-2002	
Country: Israel								
		Owner: UCAR Carbon Technology Corp.			26-Jan-1995	08-Oct-1996		
		Agent: MULF A.E. Milford						
		Classes: 19						
		Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.						
		Remarks:						
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						
		Classes: 1						
		Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.						
		Remarks:						
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						
		Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.						
		Remarks:						
DURACAST	GSPEC MR		1013	Registered	306816	306816	03-Jan-2006	
Country: Portugal								
		Owner: UCAR Carbon Technology Corp.			27-Jan-1995	03-Jan-1996		
		Agent: CUNH A.G. Da Cunha Ferreira LDA						
		Classes: 19						
		Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.						
		Remarks:						

Thursday, November 05, 1998

Trademark List

Page: 4

Trademark Name

Division

Attorney(s)

Case Number

Status

Application Number/Filing

Registration Number/Date

Renewal Date

First Use Date

DURACAST

GSPEC MR

1014

Registered

1948738

02-Feb-2005

Owner: UCAR Carbon Technology Corp.

Agent: POLO Carlos Polo

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

GSPEC MR

1015

Registered

307141

22-Dec-2005

Owner: UCAR Carbon Technology Corp.

Agent: ALBI Albinus Patentbyra Stockholm A

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

GSPEC MR

1016

Registered

2009155

27-Jan-2005

Owner: UCAR Carbon Technology Corp.

Agent: GRAN Grant, Spencer, Caisley & Port

Classes: 1

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

DURACAST

GSPEC MR

1017

Registered

2003368

24-Sep-2006

Owner: UCAR Carbon Technology Corp.

Classes: 19

Remarks:

Goods: Graphite blocks for use in casting, rolling and fabrication of non-ferrous metals.

Country: United States of America

Country: United Kingdom





Thursday, November 05, 1998

Trademark List

Page: 5

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
DURAPRESS	GSPEC MR		1200	Pending	75/517643			
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 1			Remarks:	13-Jul-1998			
	Goods: artificial graphite for use in industrial hot pressing of metallic powders							

3

EXPANDOGRAF	MR		1023	Registered	75/194888	2189843	15-Sep-2008	23-Dec-1997
Country: United States of America	Owner: UCAR Carbon Technology Corp. Classes: 17			Remarks: Statement of Use accepted 8/6/98.	08-Nov-1996	15-Sep-1998		
	Goods: Flexible graphite sheet gasket material for use in industrial applications.							

4

Thursday, November 05, 1998

Trademark 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								
Owner: UCAR Carbon Technology Corp.								
Agent: GEVE Gevers & Partners								
Classes: 1								
Remarks:								

Designated Countries

BX	Published	Goods: Graphite particles for use in the manufacture of fire retardant products in int. class 1.
DE	Published	
DK	Published	
ES	Published	
FI	Published	
FR	Published	
GB	Published	
GR	Published	
IE	Published	
IT	Published	
MC	Published	
PT	Published	
SE	Published	

GRAFGUARD	MR	1028	Registered	113097/96	4166366	10-Jul-1998	10-Jul-2008	
Country: Japan								
Owner: UCAR Carbon Technology Corp.								
Agent: SUZU Suzuye & Suzuye								
Classes: 1								
Remarks: Renewal due between 6/1/07 and 7/10/08.								

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

Thursday, November 05, 1998

Page: 7

### Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFGUARD		MR	1029	Registered	75/106979	2111370	04-Nov-2007	

Country: United States of America

Owner: UCCAR Carbon Technology Corp.  
Classes: 9

Remarks: Also searched charguard.  
20-May-1996 04-Nov-1997

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 manufacture of  
fire retardant products

5

Thursday, November 05, 1998

Trademark List

Page: 8

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
----------------	----------	-------------	-------------	--------	---------------------------	--------------------------	--------------	----------------

Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 17

Registered 74/217903 1812925 21-Dec-2003  
Remarks: Also conducted full searches for  
01-Nov-1991 21-Dec-1993

Graphkoke Graflene and  
Graphlene. Additional preliminary  
searches were conducted for  
Monofilm, Monograf, Monofoil,  
Solo seal, Solograf, Grafplas, Graf-  
plus, Grafilm, Thermocarb, Plasti-  
Kote, Super-Graf, Tuff-Foil and  
Extra.

Consent given by Dixon  
Ticonderoga to use GRAFKOTE for  
restricted goods: flexible graphite  
and polymer composite sheets and  
rolls.

Goods: Flexible graphite and polymer composite sheets  
and rolls for use as gaskets in the fluid sealing  
and internal combustion engine industries.

GRAFLITE MR 1203 Pending

Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 1

Remarks: TTU application filed via express  
mail 10/21/98

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

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL

Country: Argentina

MR 1034 Renewing 1278798 08-Mar-1998  
 Owner: UCAR Carbon Technology Corp.  
 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.

Goods: Carbon and graphite in the form of flexible  
 webs, cloths, individual or laminated sheets,  
 strips, tapes, ribbon, foam, strands, filaments,  
 for textile use.

GRAFOIL

Country: Argentina

MR 1035 Renewing 1278797 08-Mar-1998  
 Owner: UCAR Carbon Technology Corp.  
 Agent: MARV Marval, O'Farrell & Mairal  
 Classes: 17

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.

Goods: Carbon and graphite in the form of flexible  
 webs, cloth, individual or laminated sheets,  
 strips, tapes, ribbon, foam, strands, filaments,  
 other than for textile use.

GRAFOIL

Country: Argentina

MR 1036 Registered 1381802 31-May-2000  
 Owner: UCAR Carbon Technology Corp.  
 Agent: MARV Marval, O'Farrell & Mairal  
 Classes: 17  
 Remarks:  
 Goods: Gaskets and packing rings.

Thursday, November 05, 1998

Trademark List

Page: 10

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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Country: Australia

Owner: UCAR Carbon Technology Corp.

Agent: CALL Callinan Lawrie

Classes: 17

Remarks: Assignments recorded 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

goods included in this class.

GRAFOIL

MR	1038	Registered	750133090	750133090	14-Nov-2004
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Country: Brazil

Owner: UCAR Carbon Technology Corp.

Agent: DANI Daniel & Cia

Remarks: Opposition filed against Nacional

de Grafite Ltda. - GRAFOIL appln. No. 820695084 - 9/98.

Opposition filed against Juntalite Ind

e Com. - GRAFOIL reg. No. 816459495 - court action pending as of 10/98.

Goods:

Thursday, November 05, 1998

### Trademark List

Page: 11

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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Country: Canada

MR 1040 Registered 137196 04-Sep-2009  
Owner: UCAR Carbon Technology Corp.  
Agent: SIM Sim & McBurney

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.

GRAFOIL

Country: China

MR 1041 Registered 162830 162830 28-Sep-2002  
Owner: UCAR Carbon Technology Corp.  
Agent: CCPIT CCPIT Patent and Trademark Law

Classes: 15

Remarks: Assignment and license recorded.

Goods: Carbon and Graphite flexible webs, sheets, strips, tape, foam, strands and filaments.

Thursday, November 05, 1998

Trademark List

Page: 12

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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Country: Colombia

MR 1042 Registered 375258 206335 28-Jan-2008  
Owner: UCAR Carbon Technology Corp.  
Agent: CAVE Cavellier Abogados  
Classes: 17

Remarks: This record was entered 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.

Goods: Rubber, gutta-percha, gunn asbestos, mica and goods made from these materials and not included in other classes: plastics in extruded form for use in manufacture; packing, stopping and insulating materials; flexible pipes, not of metal.

GRAFOIL

Country: Colombia

MR 1043 Registered 375259 152993 28-Feb-2004

Owner: UCAR Carbon Technology Corp. 11-Feb-1993 28-Feb-1994

Agent: CAVE Cavellier Abogados

Classes: 1

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

Goods:



**Trademark List**

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL		MR	1044	Registered		674/1981 13-Feb-1981	13-Feb-2001	

Country: Denmark

Owner: UCAR Carbon Technology Corp.

Agent: BUDD Budde Schou & Co.

Classes: 17

Remarks: Assignment recorded 2/7/90.

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

Page: 14

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL		MR	1045	Registered	37291	37291	01-Apr-2006	
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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

DE Registered  
 webs, cloths, individual or laminated sheets,

DK Registered  
 strips, tapes, ribbons, foam, strands and

ES Registered  
 filaments in Int. Class 1. Gaskets, packing

FI Registered  
 rings, insulating and sealing materials in Int.  
 Class 17.

FR Registered

GB Registered

GR Registered

IE Registered

IT Registered

MC Registered

PT Registered

SE Registered

## Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL			MR 1046	Registered		7,816	06-Oct-2000	
Country: Finland			Owner: UCAR Carbon Technology Corp. Agent: BERG Bergren OY AB			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. Agent: VAYA Yayanos Kostopoulos			05-Sep-1997		
			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, strips, tapes, ribbons, foam, strands, filaments, gaskets and packing rings.			
GRAFOIL			MR 1050	Registered	6094/92	154738	18-Nov-1999	
Country: Ireland, Republic of			Owner: UCAR Carbon Technology Corp. Agent: KELL F.R. Kelly & Co.		18-Nov-1992	18-Nov-1992		
			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.			

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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Country: Ireland, Republic of

MR 1051 Registered 6095/92 154739 18-Nov-1999  
 Owner: UCAR Carbon Technology Corp. 18-Nov-1992  
 Agent: KELL F.R. Kelly & Co.  
 Classes: 17

Remarks: Associated with GRAFOIL appln. No. 6094/92.  
 Worldwide consent with Societe Gravograph (GRAVOFOL).  
 Goods: gaskets and packing rings

GRAFOIL

Country: Japan

MR 1052 Registered 1664036 23-Feb-2004  
 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.  
 Goods: Individual or laminated sheets, strips, and foam and all made of carbon and graphite.

GRAFOIL

Country: Japan

MR 1053 Registered 63714/88 2326663 30-Aug-2001  
 Owner: UCAR Carbon Technology Corp. 06-Jun-1988  
 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.

Trademark List

Trademark Name	Division	Attorney(s)	Case Number	Status	Application 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.						
		Agent: BECE Becerril, Coca & Becerril, S.						
		Classes: 35						
		Remarks: Assignment and license recorded 2/9/93.						
		Goods: Gaskets and packing rings.						
GRAFOIL			MR 1057	Registered		202353	10-Jan-2002	
Country: Mexico								
		Owner: UCAR Carbon Technology Corp.						
		Agent: BECE Becerril, Coca & Becerril, S.						
		Classes: 13						
		Remarks: Assignment and license recorded 2/3/93.						
		Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments.						
GRAFOIL			MR 1058	Registered		120039	12-Jul-2012	
Country: New Zealand								
		Owner: UCAR Carbon Technology Corp.						
		Classes: 17						
		Remarks: Assignment recorded 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.						

Trademark List

Trademark Name	Division	Attorney(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.							
	Agent: BERG Bergen Patentkontor							
	Classes: 17							
	Remarks: Assignment and license recorded 10/4/89.							
	Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foan, strands, filaments, gaskets and packing rings.							
GRAFOIL		MR	1061	Registered	95298	95298	17-Dec-2017	
Country: Philippines								
	Owner: UCAR Carbon Technology Corp.							
	Agent: SIGU Siguan Reyna, Moncillo & On				19-Sep-1994	17-Dec-1997		
	Classes: 9							
	Remarks: This application replaces Reg. No. 25,533.							
	Goods: Graphite in the form of flexible webs, cloths, sheets, strips, tapes, ribbons, strands and filaments for general use in the industrial arts.							

GRAFOIL	MR	1064	Registered	75/3634	75/3634	14-Jul-2005		
Country: South Africa								
	Owner: UCAR Carbon Technology Corp.				14-Jul-1975	14-Jul-1995		
	Agent: ADAM 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.							

Thursday, November 05, 1998

Trademark List

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.  
 Agent: ALBI Albilhus Patentbyra Stockholm A

Classes: 10

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 2/23/90.

GRAFOIL

Country: Taiwan	MR		1068	Pending	87013219			
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Owner: UCAR Carbon Technology Corp.  
 Agent: LEE Lee and Li  
 Classes: 17

Remarks: [Replaces 87,440 - covered goods not in use]

GRAFOIL

Country: Taiwan	MR		1069	Pending	87013218			
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Owner: UCAR Carbon Technology Corp.  
 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.

Thursday, November 05, 1998

Trademark List

Page: 20

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOIL

MR	1070	Registered	59627	99456	12-Sep-1977	12-Sep-1997	12-Sep-2007	
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Country: Turkey

Owner: UCAR Carbon Technology Corp.  
 12-Sep-1977 12-Sep-1997

Agent: DERIS Deris Patents and Trademark Ag

Remarks: Assignment recorded 1990.

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	1071	Registered	938730	938730	25-Feb-1969	25-Feb-1990	25-Feb-2004	
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Country: United Kingdom

Owner: UCAR Carbon Technology Corp.  
 25-Feb-1969 25-Feb-1990

Agent: GRAN Grant, Spencer, Caisley & Port

Classes: 17

Remarks: Consent obtained from Courtaulds

Ltd. 1/20/71.

Assignment recorded 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 packing rings, all made from the aforesaid materials.

GRAFOIL

MR	1072	Registered	758239	15-Oct-1983	15-Oct-2003			
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Country: United States of America

Owner: UCAR Carbon Technology Corp.  
 Classes: 1

Remarks: High Temperature Materials, Inc.  
 merged with UCC 3/1/66, recorded  
 3/29/66, Reel 136 Frame 526.

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

7



Thursday, November 05, 1998

Trademark List

Page: 21

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
GRAFOIL			1073	Registered		850235	04-Jun-2008	
Country: United States of America								
Owner: UCAR Carbon Technology Corp.								
Classes: 17								
Goods: Gaskets and packing rings.								
Remarks:								
04-Jun-1988								

GRAFOIL			1204	Pending				
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Country: United States of America

Owner: UCAR Carbon Technology Corp.

Classes: 1

Remarks: New application filed after 1196891 cancelled.

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, punns or sliding joints.

GRAFOIL			1076	Registered	84627	84627	22-Jul-2007	
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Country: Venezuela

Owner: UCAR Carbon Technology Corp.

Agent: VALL Vallina Grisanti & Asociados

Classes: 1

Remarks: Assignment recorded 1/3/94.

Oppositions filed against GRAFOIL applications filed by Juan Fernandez Martinez, pending as of 10/98.

Goods: Carbon and Graphite in the form of flexible webs, cloths, individual or laminated sheets, strips, tapes, ribbons, foam, strands, filaments.

Thursday, November 05, 1998

Trademark List

Page: 22

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAFOL AND CHINESE  
 Country: Taiwan  
 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.

GRAFOL AND KOREAN  
 Country: Korea, South  
 MR 1079  
 Registered  
 Owner: UCAR Carbon Technology Corp.  
 Agent: KIM Kim, Shin & Yu  
 Classes: 16  
 Remarks: Assignment recorded 4/17/90.  
 License and address change recorded 6/15/93.

GRAFOL IN KATAKANA  
 Country: Japan  
 MR 1080  
 Registered  
 Owner: UCAR Carbon Technology Corp.  
 Agent: SUZU Suzuye & Suzuye  
 Classes: 34  
 Remarks: Assignment recorded 11/5/90.

GRAFSHIELD  
 Country: United States of America  
 MR 1201  
 Pending  
 Owner: UCAR Carbon Technology Corp.  
 Classes: 1  
 Goods: plates, cylinders and other materials for use as industrial heat shields, baffles or seals.

10

Thursday, November 05, 1998

Trademark List

Page: 23

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GRAPHI-TOOL  
 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.

GRAPHI-TOOL  
 Country: Taiwan  
 Owner: UCAR Carbon Technology Corp.  
 Agent: LEE Lee and Li  
 Classes: 84  
 Goods: Graphite tooling machines.

GRAPHI-TOOL  
 Country: United Kingdom  
 Owner: UCAR Carbon Technology Corp.  
 Agent: GRAN Grant, Spencer, Caisley & Port  
 Classes: 7  
 Goods: Machine tools, parts and fitting for all the aforesaid goods, all included in Class 7.

GRAPHI-TOOL  
 Country: United States of America  
 Owner: UCAR Carbon Technology Corp.  
 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

Trademark List

Page: 24

Trademark Name	Division	Attorney(s)	Case Number	Status	Application Number/Filing	Registration Number/Date	Renewal Date	First Use Date
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GSP		MR	1088	Registered	723111	1546426	04-Jul-2009	09-Sep-1987
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Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 17

Remarks: Sections 8&15 accepted 12/11/95.

Goods: Flexible graphite packing material used for fluid sealing in pumps and valves in the valve and pump packing industry.

(12)

GTS		MR	1089	Registered	784266	1569027	05-Dec-1999	07-Apr-1988
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Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Agent: ACFT Assistant Commissioner for Trade

Classes: 1

Goods: Graphite paste used as pipe thread sealant, in Class 1.

Remarks: Sections 8 & 15 accepted 12/4/95.

(13)

PYROFOAM		MR	1091	Registered		177988	27-Aug-2001	
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Country: Canada

Owner: UCAR Carbon Technology Corp.  
Agent: SIM Sim & McBurney

Remarks:

Goods: Carbon and graphite foam sold in sheet, bar and billet form for general use in the industrial arts.

RIBBON-PACK		MR	1093	Registered	723722	1541522	30-May-2009	
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Country: United States of America

Owner: UCAR Carbon Technology Corp.  
Classes: 17

Remarks: Sections 8 & 15 accepted 3/25/96.

Goods: Flexible graphite packing materials used for fluid sealing in pumps, valves and related components.

(14)

Thursday, November 05, 1998

Trademark List

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	18-Apr-1991

Country: United States of America  
 Owner: UCAR Carbon Technology Corp.  
 Classes: 19  
 Goods: Refractory ramming mixes, in class 19.  
 Remarks: Sections 8 & 15 accepted 3/3/98.

SOCKET MARKING FOR ELECTRODES	MR	1095	Registered	418218	11-Dec-2005
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Country: United States of America  
 Owner: UCAR Carbon Technology Corp.  
 Classes: 19  
 Goods: Carbon electrodes and graphite electrodes.  
 Remarks:

SUPER GTO	MR	1096	Pending	75/309150
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Country: United States of America  
 Owner: UCAR Carbon Technology Corp.  
 Classes: 17  
 Goods: Flexible graphite sheets for use in internal combustion engines and automotive heat shielding applications in Int. Class 1.  
 Remarks: 16-Jan-1997

Division CAER Carbon Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
017054	FJM	FILED	SELF CENTERING ELECTRODE JOINT	COLEMAN, PD FULGENZI, CF KLOTZ, JA STEWART, JR

UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AR		Granted	ORD	326661	24-Nov-1993	251086	16-Sep-1997		24-Nov-2013		
AU		GRANTED	ORD	51932/93	24-Nov-1993	663839	19-Oct-1995		24-Nov-2013		
BO		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	PA	24-Nov-2013		
CN		PENDING	ORD	93120594.8	24-Nov-1993				24-Nov-2013		
DE		GRANTED	EPC	69314749.0-0	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		19-Nov-2013		
FR		GRANTED	EPC	93118639.9	19-Nov-1993	599211	22-Oct-1997		19-Nov-2013		
IN		PENDING	ORD	1320/DEL/93	24-Nov-1993				24-Nov-2007		
IT		GRANTED	EPC	93118639.9	19-Nov-1993	27669/BE/97	01-Oct-1997		19-Nov-2013		
NO		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		

Wednesday, November 04, 1998

Master List By Division

Page: 2

Division	CAER	Carbon Electrode Related					
UA	PENDING	ORD 93003756	08-Sep-1993				08-Sep-2013
US	GRANTED	ORD 981606	25-Nov-1992	5336015	09-Aug-1994	LE	09-Aug-2011
VE	GRANTED	ORD 1798/93	24-Nov-1993		08-May-1998		24-Nov-2013
ZA	PENDING	ORD 93/8797	24-Nov-1993				24-Nov-2013

Wednesday, November 04, 1998

Master List By Division

Page: 3

Division CAER Carbon Electrode Related

Inventors

Case Number	Attorney	Disclosure Status	Title	Inventors
030000	FJM	Open	OXIDATION INHIBITION OF CARBON ELECTRODES	Bretz, RI Chiu, CC Greinke, RA Klotz, JA

UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US	-1	PENDING	CON	08/919,689	28-Aug-1997			LB			



Case Number	Division	CASP	Carbon Specialty	Attorney	Disclosure Status	Title	Inventors				
009426				FJM	FILED	CEMENTED COLLECTOR BAR ASSEMBLIES FOR ALUMINUM CELL CARBON BOTTOM BLOCK	MILNER, RG VADLA, JJ				
				UCAR Carbon Technology Corp							
Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1046456	16-Jan-1979	OL	16-Jan-1996		

Wednesday, November 04, 1998

Master List By Division

Page: 5

Division CASP Carbon Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
016513	FJM	FILED	CONDUCTIVE EXPANDABLE CARBONACEOUS PASTE MATERIAL	CLARK, WR KING, HL WILLEY, HE
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE		GRANTED	EPC	92102709.0	19-Feb-1992	0500061	26-Oct-1994		19-Feb-2012		
EP		GRANTED	ORD	92102709.0	19-Feb-1992	0500061	26-Oct-1994		19-Feb-2012		
FR		GRANTED	EPC	92102709.0	19-Feb-1992	0500061	26-Oct-1994		19-Feb-2012		
GB		GRANTED	EPC	92102709.0	19-Feb-1992	0500061	26-Oct-1994		19-Feb-2012		
IT		GRANTED	EPC	92102709.0	19-Feb-1992	0500061	26-Oct-1994	EP	19-Feb-2012		
SE		GRANTED	EPC	92102709.0	19-Feb-1992	0500061	26-Oct-1994	EP	19-Feb-2012		
US		GRANTED	ORD	658700	21-Feb-1991	5167868	01-Dec-1992	LE	01-Dec-2009		

Division CASP Carbon Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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016901	FJM	FILED	ROOM TEMPERATURE SETTING CARBONACEOUS CEMENT WITH INCREASED ELECTRICAL CONDUCTIVITY AND FLEXURAL STRENGTH	BRETZ, RI GREINKE, RA KAMPE, DJ LEWIS, IC PIRRO, TA
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Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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DE		GRANTED	ORD	P4312571.9	17-Apr-1993	4312571.9	30-Dec-1997		17-Apr-2013		
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DE	-1	GRANTED	DIV	P4345359.7	22-Dec-1995	4345359.7	23-Dec-1997		22-Dec-2015		
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JP		PENDING	ORD	087247/93	14-Apr-1993						
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US		GRANTED	ORD	870314	17-Apr-1992	5280063	18-Jan-1994	LE	18-Jan-2011		
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US	-2	GRANTED	CIP	135153	12-Oct-1993	5373051	13-Dec-1994	LE	13-Dec-2011		
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US	-3	GRANTED	CON	409896	23-Mar-1995	5550176	27-Aug-1996	LE			
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Division CMP UCAR Composites

Case Number	Attorney	Disclosure Status	Title	Inventors
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030018	FJM	Open	TOOL HOLDER BALANCING ASSEMBLY AND METHOD	HARPER, RT
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		Pending	ORD	075104	08-May-1998			LE			

Wednesday, November 04, 1998

Master List By Division

Page: 8

Division CSV Carbone Savoie

Case Number	Attorney	Disclosure Status	Title	Inventors
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BR2068	FM	Filed	CARBONACEOUS LUTING PASTE AND AMBIENT TEMPERATURE LUTING PROCESS (US)	DUMAS, D LACROIX, S LATARD, JM MONTILLOT, AM VAILLON, J
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Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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	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	11-Mar-1980	NT	20-Apr-1999		

Case Number	Division	CSV	Attorney	Carbone Savoie	Disclosure Status	Title	Inventors				
BR2068/A1			FJM		Filed	CARBONACEOUS PASTE FOR COLD SHAPING	DUMAS, D LACROIX, S LATARD, JM MONTILLOT, AM VALLON, J				
				Carbone Savoie							
Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
FR		GRANTED	ORD	7904769	19-Feb-1979	2453839	28-Aug-1981		20-Apr-1998		

Wednesday, November 04, 1998

Master List By Division

Page: 10

Division CSV Carbone Savoie

Case Number	Attorney	Disclosure Status	Title	Inventors
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BR2144	FJM	Filed	ELECTRIC FURNACE FOR THE CALCINATION OF CARBONACEOUS MATERIALS (US)	AUBRY, M BERNARD, JC GEORJON, P LATARD, JM PHILPON, P
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Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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	18-Jun-1979	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		
US		GRANTED	ORD	227052	08-Feb-1981	4357210	02-Nov-1982	LE	02-Nov-1999		
ZA		GRANTED	ORD	7912745	04-Jun-1979	7912745	25-Jun-1980		04-Jun-1999		

Wednesday, November 04, 1998

Master List By Division

Page: 11

Division CSV Carbone Savoie

Case Number	Attorney	Disclosure Status	Title	Inventors
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BR2155	FIM	Filed	SYNTHETIC CARBONACEOUS GRANULES HAVING HIGH MECHANICAL CHARACTERISTICS (US)	DELHAY, JP DUMAS, D GEORJON, P LACROIX, P LATARD, JM
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Carbone Savoie

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD	359388	28-Aug-1980	1154211	27-Sep-1983		27-Sep-2000		
FR		GRANTED	ORD	7922253	29-Aug-1979	2464294	09-May-1983		29-Aug-1999		
JP		GRANTED	ORD	116903/80	25-Aug-1980	1240938	26-Nov-1984		25-Aug-2000		
NO		GRANTED	ORD	802516	25-Aug-1980	152013	17-Jul-1985		25-Aug-2000		
US	-1	Granted	CON	551568	14-Nov-1983	4483840	20-Nov-1984	LE	14-Nov-2003		
ZA		GRANTED	ORD	80/5353	28-Aug-1980	80/5353	28-Apr-1982		28-Aug-2000		



Division CSV Carbone Savoie

Case Number	Attorney	Disclosure Status	Title	Inventors
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BR2366	FIM	Filed	REFRACTORY PRODUCTS FORMED BY GRAINS BOUND BY CARBON RESIDUES AND METAL SILICON IN POWDER FORM AND PROCESS	DUMAS, D LATARD, MN MESNILDOT, DB MICHEL, C MONTILLOT, AM
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Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent 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	06-Dec-1983	0128165	30-Sep-1987		06-Dec-2003		
GB		GRANTED	EPC	83903801.5	06-Dec-1983	0128165	30-Sep-1987		06-Dec-2003		
IN		GRANTED	ORD	1430/CAL/83	21-Nov-1983	161625	02-Dec-1988		21-Nov-1997		
IN	-1	GRANTED	ORD	712/CAL/86	21-Nov-1983	166330	14-Dec-1990		21-Nov-1997		
IT		GRANTED	ORD	24046A/83	06-Dec-1983	1167300	13-May-1987		06-Dec-2003		
US		GRANTED	ORD	629547	06-Dec-1983	4544641	01-Oct-1985	LE	06-Dec-2003		

Wednesday, November 04, 1998

Master List By Division

Page: 13

Division CSV Carbone Savoie

Case Number Attorney Disclosure Status Title Inventors

BR2648 FJM Filed PROCESS AND APPARATUS FOR SEALING AUDRAS, G  
CATHODIC BARS IN A PRESTRESSED LATARD, JM  
CONDITION (US) MICHAUD, L  
Carbone Savoie MONTILLOT, AM

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AU		GRANTED	ORD	80910/87	09-Nov-1987	589876	08-Mar-1990		09-Nov-2007		
BR		GRANTED	ORD	8706015	09-Nov-1987	8706015-9	25-Apr-1995		09-Nov-2002		
CH		GRANTED	ORD	4349/87-6	06-Nov-1987	674212-9	15-May-1990		06-Nov-2007		
CN		GRANTED	ORD	87107682	09-Nov-1987	12352	12-Apr-1991		09-Nov-2002		
FR		GRANTED	ORD	8615803	10-Nov-1986	2606428	23-Jan-1989		10-Nov-2006		
IS		GRANTED	ORD	3281	09-Nov-1987	1401	15-Dec-1989		09-Nov-2007		
NO		GRANTED	ORD	874658	09-Nov-1987	176768	11-May-1988		09-Nov-2007		
US		GRANTED	ORD	111192	22-Oct-1987	4773980	27-Sep-1988	LE	22-Oct-2007		
VE		GRANTED	ORD	1784/87	06-Nov-1987	50548	12-Nov-1993		06-Nov-2002		

Wednesday, November 04, 1998

Master List By Division

Page: 14

Division CSV Carbone Savoie

Case Number	Attorney	Disclosure Status	Title	Inventors
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BR2649	FJM	Filed	PROTECTIVE COATING FOR THE CARRIER BARS OF PREBAKED ANODES AND THE EMERGING PART OF SAID ANODES (US)	AUDRAS, G LATARD, JM MIGNOT, F SAMANOS, B
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Carbone Savoie

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AE		GRANTED	ORD	VOL17NO208	26-Jun-1988	VOL13NO32	05-Sep-1991		14-Nov-2006		
AU		GRANTED	ORD	81194/87	13-Nov-1987	590185	22-Feb-1990		13-Nov-2007		
CA		GRANTED	ORD	551398	09-Nov-1987	1284783	11-Jun-1991		11-Jun-2008		
EP		FILED	ORD		12-Nov-1987				12-Nov-2007		
FR	-1	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		
US		GRANTED	ORD	118023	06-Nov-1987	4787965	29-Nov-1988	LE	06-Nov-2007		

Wednesday, November 04, 1998

Master List By Division

Page: 15

Division CSV Carbone Savoie

Case Number Attorney Disclosure Status Title Inventors

BR2649/A1 FJM Filed PROTECTIVE COATINGS FOR THE CARRIER AUDRAS, G  
BARS OF PRE-BAKED ANODES AND THE LATARD, JM  
EMERGING PART OF THE ANODES (US) MIGNOT, F  
Carbone Savoie SAMANOS, B

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent Ref #
AE		FILED	ORD	VOL18NO231	20-Jul-1989				14-Nov-2006	
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	
EP		FILED	ORD	88420430	21-Dec-1988	322326	12-Aug-1992		21-Dec-2008	
FR		GRANTED	ORD	8718452	22-Dec-1987	2624886	03-Jan-1992		14-Nov-2006	
FR	-1	GRANTED	EPC	88420430.6	21-Dec-1988	0322326	12-Aug-1992		21-Dec-2008	
NZ		GRANTED	ORD	227342	15-Dec-1988	227342	24-Apr-1992		06-Nov-2007	
US	-1	GRANTED	ORD	07/426200	25-Oct-1989	4946502	07-Aug-1990	LE	25-Oct-2009	

Division CSV Carbone Savoie

Case Number	Attorney	Disclosure Status	Title	Inventors
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BR3042	FIM	Filed	COATING TO PROTECT MATERIAL FROM REACTION WITH AIR AT HIGH TEMPERATURE	FARGE, Y FIGUERES, R MIGNOT, F MOREL, B
	Carbone Savoie			

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration 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	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	25-Jan-1994	0609160	20-Mar-1996		25-Jan-2014		
GB		GRANTED	EPC 94420021.1	25-Jan-1994	0609160	20-Mar-1996		25-Jan-2014		
IT		GRANTED	EPC 94420021.1	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	LE	14-Jan-2004		
ZA		GRANTED	ORD 94/0505	25-Jan-1994	94/0505	30-Nov-1994		25-Jan-2014		

Wednesday, November 04, 1998

Master List By Division

Page: 17

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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012025	FIM	FILED	INJECTABLE PACKING FORMULATION CONTAINING FLEXIBLE GRAPHITE	COX, CV
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Case	Sub	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	GRANTED		ORD		1117516	02-Feb-1982		02-Feb-1999				
JP	PENDING		ORD		009271/79	31-Jan-1979						
US	GRANTED		ORD		4162078	24-Jul-1979		24-Jul-1996				

Wednesday, November 04, 1998

Master List By Division

Page: 18

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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012083	FJM	FILED	PACKING RING CONTAINING FLEXIBLE GRAPHITE	SCHNITZLER, DL
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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CA		GRANTED	ORD		1129904	17-Aug-1982	17-Aug-1999				
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US		GRANTED	ORD		4190257	26-Feb-1980	26-Feb-1997				
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Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015410	FJM	FILED	INTERCALATION OF GRAPHITE	BECK, EJ GREINKF, RA
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UCAR Carbon Technology Corp

MERCURI, RA

Keyword(s):

GRAFOIL

Country	Sub Case	Status	Case Application Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CH		GRANTED	EPC	88114165.9	31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
DE		GRANTED	EPC	88114165.9	31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
EP		GRANTED	ORD	88114165.9	31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
EP	-1	OPPOSITION	ORD	88114165.9	31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
FR		GRANTED	EPC	88114165.9	31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
GB		GRANTED	EPC	88114165.9	31-Aug-1988	0305984	05-Jan-1994		31-Aug-2008		
IT		GRANTED	EPC	88114165.9	31-Aug-1988	0305984	05-Jan-1994	EP	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	LE	23-Jan-2007		



Wednesday, November 04, 1998

Master List By Division

Page: 20

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015676	FJM	FILED	COMPOSITES OF FLEXIBLE GRAPHITE PARTICLES AND AMORPHOUS CARBON	HOWARD, RA
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case	Status	Case Application Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1322633	05-Oct-1993	OL	05-Oct-2010		
DE		GRANTED	EPC	89101969.7	04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
EP		GRANTED	ORD	89101969.7	04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
FR		GRANTED	EPC	89101969.7	04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
GB		GRANTED	EPC	89101969.7	04-Feb-1989	0328008	02-Jun-1993		04-Feb-2009		
IT		GRANTED	EPC	89101969.7	04-Feb-1989	0328008	02-Jun-1993	EP	04-Feb-2009		
JP		GRANTED	ORD	029581/89	08-Feb-1989	2077617	09-Aug-1996				
US		GRANTED	ORD	154034	09-Feb-1988	4826181	02-May-1989	LE	02-May-2006		
US	-1	GRANTED	DIV	321225	09-Mar-1989	5225379	06-Jul-1993	LE	06-Jul-2010		

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015701	FJM	FILED	FLEXIBLE GRAPHITE ARTICLES WITH AN AMORPHOUS CARBON PHASE AT THE SURFACE	GREINKE, RA HOWARD, RA
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent Ref #
CA		PENDING	ORD	594331	21-Mar-1989					
DE		GRANTED	EPC	89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	
EP		GRANTED	ORD	89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	
FR		GRANTED	EPC	89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	
GB		GRANTED	EPC	89302769.8	21-Mar-1989	0334589	20-Oct-1993		21-Mar-2009	
IT		GRANTED	EPC	89302769.8	21-Mar-1989	0334589	20-Oct-1993	EP	21-Mar-2009	
JP		GRANTED	ORD	069120/89	20-Mar-1989	1880153	21-Oct-1994		20-Mar-2009	
US	-1	GRANTED	CON	590582	28-Sep-1990	5228701	20-Jul-1993	LE	20-Jul-2010	

Wednesday, November 04, 1998

Master List By Division

Page: 22

Division FLXGR Flexible Graphite Related

Case

Number	Attorney	Disclosure Status	Title	Inventors
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015747	FIM	FILED	COMPOSITE COMPRISING NEARLY PARALLEL EXFOLIATED GRAPHITE WORMS	CHUNG, DDL
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Sub	Case Application	Filing	Patent	Issue	Tax	Expiration	Agent	Agent Ref #
Country	Case Status	Type	Number	Date	Schedule	Date		

US	GRANTED	ORD	612406	21-May-1984	4704231	03-Nov-1987	LE	03-Nov-2004
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Wednesday, November 04, 1998

Master List By Division

Page: 23

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015798	FIM	FILED	COMPOSITES OF IN-SITU EXFOLIATED GRAPHITE	CHUNG, DDL
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Case	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	GRANTED	ORD	ORD	1330609	05-Jul-1994	OL	05-Jul-2011					
US	GRANTED	ORD	ORD	105102	05-Oct-1987	4946892	07-Aug-1990	LE	07-Aug-2007			

Wednesday, November 04, 1998

Master List By Division

Page: 24

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015889	FJM	FILED	HIGH PURITY, HIGH TEMPERATURE PIPE THREAD SEALANT PASTE	HOWARD, RA
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Application Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1331906	13-Sep-1994	OL	13-Sep-2011		
DE		GRANTED	EPC	89304270.5	28-Apr-1989	0341869	15-Dec-1993		28-Apr-2009		
EP		GRANTED	ORD	89304270.5	28-Apr-1989	0341869	15-Dec-1993		28-Apr-2009		
FR		GRANTED	EPC	89304270.5	28-Apr-1989	0341869	15-Dec-1993		28-Apr-2009		
GB		GRANTED	EPC	89304270.5	28-Apr-1989	0341869	15-Dec-1993		28-Apr-2009		
IT		GRANTED	EPC	89304270.5	28-Apr-1989	0341869	15-Dec-1993	EP	28-Apr-2009		
JP		GRANTED	ORD	111901/89	28-Apr-1989	1914049	23-Mar-1995		28-Apr-2009		
US		Granted	ORD	187846	29-Apr-1988	4872914	10-Oct-1989	LE	10-Oct-2006		
US	-2	Granted	REI	589614	28-Sep-1990	RE33760	03-Dec-1991	LE	03-Dec-2008		
US	-3	GRANTED	DIV	608396	02-Nov-1990	5085700	04-Feb-1992	LE	04-Feb-2009		

Wednesday, November 04, 1998

Master List By Division

Page: 25

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015889RE	FJM	Open	HIGH PURITY, HIGH TEMPERATURE PIPE THREAD SEALANT PASTE	
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		Granted	REI	589614	28-Sep-1990	RE33760	03-Dec-1991	LE			

Wednesday, November 04, 1998

Master List By Division

Page: 26

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015913	FIM	FILED	INSULATING COMPOSITE GASKET	MERCURI, RA
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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JP	GRANTED	ORD	15-Jun-1989	1921863	07-Apr-1995		15-Jun-2009		
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US	GRANTED	ORD 231711	12-Aug-1988	4911972	27-Mar-1990	LE	27-Mar-2007		
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Wednesday, November 04, 1998

Master List By Division

Page: 27

Division FLXGR Flexible Graphite Related

Case

Number Attorney Disclosure Status Title Inventors

016138 FJM FILED FLEXIBLE GRAPHITE EXPANDABLE SEAL HOWARD, RA  
AND METHOD

UCAR Carbon Technology Corp

Keyword(s):

GRAFOL

Country	Case	Sub	Status	Type	Application	Filing	Patent	Issue	Tax	Expiration	Agent	Agent Ref #
				Number	Number	Date	Number	Date	Schedule	Date		
US	GRANTED		ORD	658010		20-Feb-1991	5130199	14-Jul-1992	LE	14-Jul-2009		



Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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016166	FJM	FILED	ULTRA-THIN PURE FLEXIBLE GRAPHITE	GETZ, G GREINKE, RA
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UCAR Carbon Technology Corp

Keyword(s):

HOWARD, RA  
MERCURI, RA

GRAFOIL

Country	Case Number	Sub Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule Date	Expiration	Agent	Agent Ref #
CA	GRANTED	ORD	2020148	29-Jun-1990	2020148	11-Jul-1995		29-Jun-2010		
DE	GRANTED	EPC	90307148.8	29-Jun-1990	0406008	21-Sep-1994		29-Jun-2010		
EP	GRANTED	ORD	90307148.8	29-Jun-1990	0406008	21-Sep-1994		29-Jun-2010		
FR	GRANTED	EPC	90307148.8	29-Jun-1990	0406008	21-Sep-1994		29-Jun-2010		
GB	GRANTED	EPC	90307148.8	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	22-Sep-1992	LE	22-Sep-2009		

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
016203	FIM	FILED	STABLE BLISTER FREE FLEXIBLE GRAPHITE AND METHOD	BRETZ, RJ GREINKE, RA
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
JP	-1	PENDING	ORD	239612/92	08-Sep-1992						
US	-3	GRANTED	CON	532365	22-Sep-1995	5582811	10-Dec-1996	LE			

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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016287	FIM	FILED	FLEXIBLE GRAPHITE LAMINATE	HOWARD, RA POLOMSKY, JJ
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	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		
GB		PENDING	EPC	91101011.4	26-Jan-1991				26-Jan-2011		
IT		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	LE	09-Oct-2007		

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
016612	FJM	FILED	METHOD OF FABRICATING A FLEXIBLE GRAPHITE LAMINATE WITH A METAL OR FIBERGLASS CORE	MERCURI, RA OHNETH, EJ
	UCAR Carbon Technology Corp			

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US	-4	FILED	CON	910476	25-Jul-1997			LE			

Wednesday, November 04, 1998

Master List By Division

Page: 32

Division FLXGR Flexible Graphite Related

Case

Number Attorney Disclosure Status Title Inventors

016618 FJM FILED FLEXIBLE GRAPHITE COMPOSITE FIRE HOWARD, RA  
RETARDANT WALLPAPER AND METHOD

UCAR Carbon Technology Corp

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE		GRANTED	EPC	92307159.1	05-Aug-1992	69204399	30-Aug-1995		05-Aug-2012		
EP		GRANTED	ORD	92307159.1	05-Aug-1992	0527046	30-Aug-1995		05-Aug-2012		
FR		GRANTED	EPC	92307159.1	05-Aug-1992	0527046	30-Aug-1995		05-Aug-2012		
GB		GRANTED	EPC	92307159.1	05-Aug-1992	0527046	30-Aug-1995		05-Aug-2012		
JP		PENDING	ORD	206755/92	03-Aug-1992						
US		GRANTED	ORD	742641	06-Aug-1991	5176863	05-Jan-1993	LE	05-Jan-2010		

Wednesday, November 04, 1998

Master List By Division

Page: 33

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
016715	FIM	FILED	METHOD AND ASSEMBLY FOR REINFORCING FLEXIBLE GRAPHITE AND ARTICLE	HOWARD, RA MERCURI, RA

UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Case Sub	Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE		GRANTED	EPC 92305069.4	02-Jun-1992	69222472.6	23-Dec-1992		02-Jun-2012		
EP		GRANTED	ORD 92305069.4	02-Jun-1992	0519620	01-Oct-1997		02-Jun-2012		
FR		PENDING	EPC 92305069.4	02-Jun-1992				02-Jun-2012		
GB		PENDING	EPC 92305069.4	02-Jun-1992				02-Jun-2012		
JP		PENDING	ORD 141738/92	02-Jun-1992						
US		GRANTED	ORD 709214	03-Jun-1991	5198063	30-Mar-1993	LE	30-Mar-2010		
US		PENDING	CON 674897	03-Jul-1996			LE			

Wednesday, November 04, 1998

Master List By Division

Page: 34

Division FLXGR Flexible Graphite Related

Case  
Number Attorney Disclosure Status Title Inventors

016742 FIM FILED LOW SURFACE ACID INTERCALATED BRETZ, RI  
GRAPHITE AND METHOD GREINKE, RA

UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Sub Case Application Filing Patent Issue Tax Expiration  
Country Case Status Type Number Date Number Date Schedule Date Agent Agent Ref #

US -1 GRANTED CON 953293 30-Sep-1992 5376450 27-Dec-1994 LE 27-Dec-2011

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
016764	FJM	FILED	EPOXY RESIN BONDED FLEXIBLE GRAPHITE LAMINATE AND METHOD	LEWIS, RT MERCURI, RA OHNETH, EJ
	UCAR Carbon Technology Corp			

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	769554	01-Oct-1991	5192605	09-Mar-1993	LE	09-Mar-2010		



Wednesday, November 04, 1998

Master List By Division

Page: 36

Division FLXGR Flexible Graphite Related

Case

Number Attorney Disclosure Status Title Inventors

016919 FIM FILED EXHAUST SEAL RING MERCURI, RA  
WEBER, TW

UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Sub Case Application Filing Patent Issue Tax Expiration  
Country Case Status Type Number Date Number Date Schedule Date Agent Agent Ref #

US GRANTED ORD 5451064 19-Sep-1995 19-Sep-2012

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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017197	FJM	FILED	FLAME RETARDANT ORIENTED STRAND BOARD STRUCTURE ELEMENT	FORD, BM POLLOCK, MW WETULA, JJ
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AU	Granted	ORD	17781/95	01-May-1995	687170	19-Feb-1998		01-May-2015		
CA	PENDING	ORD	2151538	12-Jun-1995				12-Jun-2015		
DE	PENDING	EPC	95303023.6	03-May-1995				03-May-2015		
EP	PUBLISHED	ORD	95303023.6	03-May-1995				03-May-2015		
FI	PENDING	ORD	9512072	28-Apr-1995				28-Apr-2015		
FR	PENDING	EPC	95303023.6	03-May-1995				03-May-2015		
GB	PENDING	EPC	95303023.6	03-May-1995				03-May-2015		
JP	PENDING	ORD	134243/95	31-May-1995						
NO	PENDING	ORD	95/1655	28-Apr-1995				28-Apr-2015		
US	GRANTED	ORD	282908	29-Jul-1994	5443894	22-Aug-1995	LE	22-Aug-2012		

Wednesday, November 04, 1998

Master List By Division

Page: 38

Division FLXGR Flexible Graphite Related

Case

Number Attorney Disclosure Status Title Inventors

017211 FIM FILED WATCH SERVICE

UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Sub Case Application Filing Patent Issue Tax Expiration  
Country Case Status Type Number Date Number Date Schedule Date Agent Agent Ref #

US FILED ORD

Wednesday, November 04, 1998

Master List By Division

Page: 39

Division FLXGR Flexible Graphite Related

Case

Number Attorney Disclosure Status Title Inventors

017264 FJM FILED WATCH SERVICE

UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Case	Status	Type	Number	Date	Filing	Patent	Issue	Tax	Expiration	Agent	Agent Ref #
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JP WS FILED ORD 290106/94

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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017265	FIM	FILED	FIRE-RESISTANT SHEET MATERIAL	FORD, BM MERCURI, RA WEBER, TW
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	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	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					LE	

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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017266	FIM	FILED	GAS FILTERING DEVICE FOR AIR BAG GENERATOR	FORD, BM WETTULA, JJ
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UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent Agent Ref #
AU		Granted	ORD 40972/96	15-Jan-1996	690391	23-Apr-1998		15-Jan-2016	
CA		PENDING	ORD 2167227	15-Jan-1996				15-Jan-2016	
DE		PENDING	EPC	19-Dec-1995				19-Dec-2015	
EP		PUBLISHED	ORD 96300287.8	16-Jan-1996				16-Jan-2016	
FR		PENDING	EPC	19-Dec-1995				19-Dec-2015	
GB		PENDING	EPC	19-Dec-1995				19-Dec-2015	
IT		PENDING	EPC	19-Dec-1995				19-Dec-2015	
JP		PENDING	ORD 005454/96	17-Jan-1996				17-Jan-2016	
MX		PENDING	ORD 9600255	16-Jan-1996				16-Jan-2016	
US		GRANTED	ORD 373593	17-Jan-1995	5494506	27-Feb-1996	LE		

Wednesday, November 04, 1998

Master List By Division

Page: 42

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
030008	FJM	Filed	FLEXIBLE GRAPHITE COMPOSITE SHEET AND METHOD	MERCURI, RA

UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Country	Sub Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
TW	FILED	ORD 87104061	23-Mar-1998			LE			
TW	-1 Filed	ORD 87109463	15-Jun-1998			LE			
US	PENDING	ORD 819744	18-Mar-1997			LE			
US	-1 PENDING	CIP 887188	02-Jul-1997			LE			
WO	FILED	ORD US98/03802	17-Mar-1998						845
WO	-1 Filed	ORD US98/13578	01-Jul-1998			LE			

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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030010	FJM	Filed	FLEXIBLE GRAPHITE COMPOSITE	CAPP, JP GOUGH, JJ MERCURI, RA
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	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			LE			
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	-1	Filed	ORD	US98/13579	01-Jul-1998			LE			
WO	-2	Filed	ORD	US98/14804	22-Jul-1998			LE			



Wednesday, November 04, 1998

Master List By Division

Page: 44

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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030011	FJM	Filed	OXIDATION AND CORROSION RESISTANT FLEXIBLE GRAPHITE COMPOSITE SHEET AND METHOD	BLAIN, DP MCGLAMERY, JT MERCURI, RA
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
TW		FILED	ORD	87104730	30-Mar-1998						
TW	-1	FILED	ORD	87104728	30-Mar-1998			LE			
US		PENDING	ORD	833356	04-Apr-1997			LE			
US	-1	PENDING	CIP	887190	02-Jul-1997			LE			
WO		FILED	ORD	US98/06279	03-Apr-1998						845
WO	-1	FILED	ORD	US98/13577	01-Jul-1998						845

Wednesday, November 04, 1998

Master List By Division

Page: 45

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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030012	FJM	Filed	FLEXIBLE GRAPHITE COMPOSITE ARTICLE FOR PROTECTION AGAINST THERMAL DAMAGE	KRASSOWSKI, DW MERCURI, RA
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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TW		Filed	ORD 87109071	08-Jun-1998					LE	
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US		PENDING	ORD 872428	10-Jun-1997					LE	
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WO		Filed	ORD US98/10928	04-Jun-1998					LE	
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Wednesday, November 04, 1998

Master List By Division

Page: 46

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
030013	FJM	Filed	FLEXIBLE GRAPHITE SHEET WITH DECREASED ANISOTROPY	MERCURI, RA

UCAR Carbon Technology Corp

Country	Case Sub	Case Status	Application Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
TW		Filed	ORD	87109070	08-Jun-1998			LE			
US		PENDING	ORD	883386	26-Jun-1997			LE			
US	-1	Pending	DIV	133237	13-Aug-1998			LE			
WO		Filed	ORD	US98/11492	12-Jun-1998			LE			

Wednesday, November 04, 1998

Master List By Division

Page: 47

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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030014	FJM	Filed	ELECTRICALLY CONDUCTIVE SEAL FOR FUEL CELL ELEMENTS	GOUGH, JJ MERCURI, RA
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
TW		Pending	ORD 87109147	09-Jun-1998			LE			
US		PENDING	ORD 934292	19-Sep-1997			LE			
US	-1	Pending	CIP 090054	03-Jun-1998			LE			
WO		Filed	ORD				LE			

Division FLXGR Flexible Graphite Related

Case Number	Sub Case	Status	Attorney	Case Application Type Number	Disclosure Status	Filing Date	Title	Patent Number	Inventors	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
030015			FJM		Open		EXPANDABLE GRAPHITE AND METHOD		GREINKE, RA					
UCAR Carbon Technology Corp														

US		Pending		ORD 015590		29-Jan-1998					LE			
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Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
030016	FJM	Open	INTUMESCENT COMPOSITION AND METHOD	FORD, BM FOUCHT, MF GARVEY, CE HUTCHINGS, DA KRASSOWSKI, DW QURESHI, SP
				UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		Pending	ORD	002347	02-Jan-1998			LE			

Division FLXGR Flexible Graphite Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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030021	FJM	Filed	FLEXIBLE GRAPHITE WITH NON-CARRIER PSA BACKING AND RELEASE LINER	Tzeng, JW
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		Pending	ORD	167865	07-Oct-1998			LE			

Division FLXGR Flexible Graphite Related

Case Number	Sub Case	Status	Attorney	Case Type	Application Number	Disclosure Status	Filing Date	Title	Patent Number	Inventors	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
030023			FJM			Filed		THERMAL INSULATING DEVICE FOR HIGH TEMPERATURE REACTORS WHICH UTILIZE HYDROGEN AND CHLOROSILANES AS REACTANTS		BLAIN, DP MERCURI, RA					
			UCAR Carbon Technology Corp												
US		Pending			ORD		23-Oct-1998					LE			



Wednesday, November 04, 1998

Master List By Division

Page: 52

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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008926	FJM	FILED	CHEMICALLY BONDED ALUMINUM COATING FOR CARBON AND PROCESS THEREFOR	SARA, RV
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UCAR Carbon Technology Corp

Country	Case Sub	Case Status	Application Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	-1	GRANTED	ORD			1045919	01-Sep-1979	NT	09-Jan-1996		
US	-3	GRANTED	DIV	874366	01-Feb-1978	4252856	24-Feb-1981	NT	24-Feb-1998		
US	-4	GRANTED	DIV	182494	29-Aug-1980	4347083	31-Aug-1982	NT	31-Aug-1999		
US	-5	GRANTED	DIV	182493	29-Aug-1980	4402744	06-Sep-1983	NT	06-Sep-2000		

Wednesday, November 04, 1998

Master List By Division

Page: 53

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors							
009308	FJM	FILED	PROCESS FOR PRODUCING AN IMPROVED GRAPHITE BODY HAVING A LOW COEFFICIENT OF THERMAL EXPANSION	LEWIS, IC SINGFR, LS							
UCAR Carbon Technology Corp											
Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1060161	14-Aug-1979		14-Aug-1996		

Wednesday, November 04, 1998

Master List By Division

Page: 54

Division GRER Graphite Electrode Related

Case Number	Sub Case	Status	Attorney	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Inventors	Agent Ref #
009588			FJM			FILED					MERROW, JK MOORE, AW VOLK, HF	
			UCAR Carbon Technology Corp									
CA		GRANTED		ORD			1089901	18-Nov-1980		18-Nov-1997		

Wednesday, November 04, 1998

Master List By Division

Page: 55

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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009756	FJM	FILED	FRIABLE SOCKET THREAD ELECTRODE JOINT	BURWELL, WH
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	-1	GRANTED	ORD			1103729	23-Jun-1981		23-Jun-1998		
US	-1	GRANTED	CIP			4159184	26-Jun-1979		26-Jun-1996		

Wednesday, November 04, 1998

Master List By Division

Page: 56

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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012026	FJM	FILED	METHOD AND APPARATUS FOR ORIENTATION OF ELECTRODE JOINT THREADS	BELZ, HM
	UCAR Carbon Technology Corp			

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1169900	26-Jun-1984		26-Jun-2001		
US		GRANTED	ORD	079886	28-Sep-1979	4349910	14-Sep-1982	NT	14-Sep-1999		

Wednesday, November 04, 1998

Master List By Division

Page: 57

Division GREER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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012326	FIM	FILED	HIGH TAPER ANGLE CONNECTING PIN FOR GRAPHITE ELECTRODE JOINTS	SELDIN, EI WENG, TL
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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CA		GRANTED	ORD		1148202	14-Jun-1983		14-Jun-2000		
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EP		GRANTED	ORD	80303383.6	26-Sep-1980	0026646	27-Aug-1986	26-Sep-2000		
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US		GRANTED	ORD	079887	28-Sep-1979	4290709	22-Sep-1981	NT		22-Sep-1998
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Wednesday, November 04, 1998

Master List By Division

Page: 58

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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012994	FIM	FILED	METHOD FOR PRODUCING LOW SULFUR PREMIUM COKE FROM HIGH SULFUR DECANT OILS	DIDCHENKO, R LEWIS, JC
	UCAR Carbon Technology Corp			

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
EP		GRANTED	ORD	82303429.3	30-Jun-1982	0068898	30-Dec-1986		30-Jun-2002		
US	-5	GRANTED	ORD	355833	22-May-1989	5167796	01-Dec-1992	LE	01-Dec-2009		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
013073	FIM	FILED	IMPROVED ELECTRIC ARC FURNACE COMPONENT	LAURIA, AT VOISINET, LJ
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1182505	12-Feb-1985	OL	12-Feb-2002		
US		GRANTED	ORD	272786	10-Jun-1981	4453253	05-Jun-1984	LE	05-Jun-2001		



Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
013250	FJM	FILED	PREMIUM COKE FROM A BLEND OF PYROLYSIS TAR & HYDROTREATED DECANT OIL	DICKINSON, EM MOORE, AW
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
EP		GRANTED	ORD	82201675.4	29-Dec-1982	0083143	22-Jan-1986		29-Dec-2002		
US	-5	GRANTED	CON	696417	30-Jan-1985	4740293	26-Apr-1988	LE	26-Apr-2005		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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013353	FJM	FILED	BORONATED CARBONS FOR ELECTRODE APPLICATIONS	SARA, RV
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
EP		GRANTED	ORD	83307051.9	18-Nov-1983	0109839	06-Sep-1989		18-Nov-2003		
US	-2	GRANTED	CON	006690	22-Jan-1987	4770825	13-Sep-1988	LE	13-Sep-2005		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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013415	FJM	FILED	MAGNETIC RESONANCE APPARATUS	SINGER, LS
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1202078	18-Mar-1986		18-Mar-2003		
US		GRANTED	ORD	393391	29-Jun-1982	4455527	19-Jun-1984	LE	19-Jun-2001		

Wednesday, November 04, 1998

Master List By Division

Page: 63

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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013503	FIM	FILED	METHOD & ARTICLE FOR PROTECTING TAPERED THREADED ELECTRODE JOINTS BY USE OF AN ALIGNMENT MECHANISM	BELZ, HM STERRER, HC
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UCAR Carbon Technology Corp

Country	Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	GRANTED	ORD		1204137	06-May-1986	OL	06-May-2003		
EP	GRANTED	ORD 83106183.3	24-Jun-1983	0101819	01-Jul-1987		24-Jun-2003		
MX	GRANTED	ORD		153994	18-Mar-1987	TP	18-Mar-2001		
US	GRANTED	ORD 393989	30-Jun-1982	4435816	06-Mar-1984	LE	06-Mar-2001		

Wednesday, November 04, 1998

Master List By Division

Page: 64

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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013795	FJM	FILED	UPGRADING OF PYROLYSIS TAR USING ACIDIC CATALYSTS	DICKINSON, EM DIDCHENKO, R
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	684139	20-Dec-1984	4740291	26-Apr-1988	LE	26-Apr-2005		

Wednesday, November 04, 1998

Master List By Division

Page: 65

Division GRER Graphite Electrode Related

Case Number Attorney Disclosure Status Title Inventors

013920 FIM FILED CARBONACEOUS ARTICLES HAVING SARA, RV

OXIDATION PROHIBITIVE COATINGS  
THEREON

UCAR Carbon Technology Corp

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD	ORD	1228605	27-Oct-1987			27-Oct-2004		
EP		GRANTED	ORD	84850235.7	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	27-Jul-1984	0134770	31-Mar-1993		27-Jul-2004		
IT		GRANTED	EPC	84850235.7	27-Jul-1984	0134770	31-Mar-1993	EP	27-Jul-2004		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
014186	FIM	FILED	ESTERS AS PTCH PLASTICIZERS	LEWIS, RT TALLON, JA
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US	-1	GRANTED	CON	862695	13-May-1986	4715897	29-Dec-1987	LE	29-Dec-2004		

Wednesday, November 04, 1998

Master List By Division

Page: 67

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
014291	FJM	FILED	UPGRADING OF PYROLYSIS TAR	DICKINSON, EM DIDCHENKO, R
UCAR Carbon Technology Corp				

Country	Sub Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US	GRANTED	ORD 684140	20-Dec-1984	4762608	09-Aug-1988	LE	09-Aug-2005		



Wednesday, November 04, 1998

Master List By Division

Page: 68

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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014361	FJM	FILED	NITRO-SUBSTITUTED PITCH AND PROCESS FOR THE PRODUCTION THEREOF	LEWIS, IC
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Application Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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US	-1	GRANTED	CON	936733	17-Nov-1986	4755276	05-Jul-1988	LE	05-Jul-2005		
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Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
014713	FIM	FILED	HIGH COKING VALUE PITCH BINDERS	GREINKE, RA

UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	804894	05-Dec-1985	4762566	09-Aug-1988	LE	09-Aug-2005		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
014744	FJM	FILED	ELECTRODE MEMBER AND PROCESS FOR THE PRODUCTION THEREOF	CHRYSSOMALLIS, GS LEWIS, IC NAZEM, F SINGER, LS
			UCAR Carbon Technology Corp	

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	680995	13-Dec-1984	4729689	08-Mar-1988	LE	08-Mar-2005		

Wednesday, November 04, 1998

Master List By Division

Page: 71

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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014783	FIM	FILED	ELECTRODE JOINT THREAD FORM	BURWELL, WH
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	-1	GRANTED	ORD			1297145	10-Mar-1992	OL	10-Mar-2009		
DE		GRANTED	EPC	86303707.3	15-May-1986	0202128	12-Feb-1992		15-May-2006		
EP		GRANTED	ORD	86303707.3	15-May-1986	0202128	12-Feb-1992		15-May-2006		
EP	-1	PENDING	ORD	87305315.1	16-Jun-1987				16-Jun-2007		
FR		GRANTED	EPC	86303707.3	15-May-1986	0202128	12-Feb-1992		15-May-2006		
GB		GRANTED	EPC	86303707.3	15-May-1986	0202128	12-Feb-1992		15-May-2006		
IT		GRANTED	EPC	86303707.3	15-May-1986	0202128	12-Feb-1992	EP	15-May-2006		
MX		GRANTED	ORD		15-May-1986	168315	18-May-1993		15-May-2006		
MX	-1	GRANTED	ORD		16-Jun-1987	168890	14-Jun-1993		16-Jun-2007		
US	-1	GRANTED	CIP	875252	17-Jun-1986	4679206	07-Jul-1987	LE	07-Jul-2004		

Wednesday, November 04, 1998

Master List By Division

Page: 72

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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014852	FIM	FILED	OXIDATION RETARDED GRAPHITE OR CARBON ELECTRODE AND METHOD FOR PRODUCING THE ELECTRODE	CHIU, CC
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	GRANTED	ORD		1287862	20-Aug-1991	OL	20-Aug-2008				
EP	GRANTED	ORD	86115772.5	13-Nov-1986	0223205	28-Feb-1990	13-Nov-2006				
US	GRANTED	ORD	797671	13-Nov-1985	4726995	23-Feb-1988	LE	23-Feb-2005			

Wednesday, November 04, 1998

Master List By Division

Page: 73

Division GRER Graphite Electrode Related

Case Number Attorney Disclosure Status Title Inventors

015057 FJM FILED CARBON-CARBON COMPOSITES HOWARD, RA

CONTAINING POORLY GRAPHITIZING LEWIS, JC  
PITCH AS A BINDER AND/OR IMPREGNANT  
HAVING A REDUCED COEFFICIENT OF  
THERMAL EXPANSION AND IMPROVED  
FLEXURAL STRENGTH

UCAR Carbon Technology Corp

Country	Case	Sub	Status	Case	Application	Filing	Patent	Issue	Tax	Expiration	Agent	Agent Ref #
				Type	Number	Date	Number	Date	Schedule	Date		
CA			GRANTED	ORD	522522	10-Nov-1986	1335323	25-Apr-1995				
US			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	04-Mar-1997	LE			

Wednesday, November 04, 1998

Master List By Division

Page: 74

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
015290	FIM	FILED	ELECTRODE JOINT	DAGATA, FJ

UCAR Carbon Technology Corp

Country	Case Status	Sub	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
EP	GRANTED		ORD 87112798.1	02-Sep-1987	0260529	11-Dec-1991		02-Sep-2007		
EP	-1 OPPOSITION		ORD 87112798.1	02-Sep-1987	0260529	11-Dec-1991		02-Sep-2007		
JP	PUBLISHED		ORD 220566/87	04-Sep-1987						
US	GRANTED		ORD 904067	05-Sep-1986	4725161	16-Feb-1988	LE	16-Feb-2005		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015302	FJM	FILED	HIGH COKING VALUE BINDER SYSTEM	WELCH, RR
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	038065	14-Apr-1987	4844740	04-Jul-1989	LE	04-Jul-2006		



Wednesday, November 04, 1998

Master List By Division

Page: 76

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
015498	FIM	FILED	JOINT FOR CARBON ELECTRODES	DAGATA, FJ

UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	190681	05-May-1988	4813805	21-Mar-1989	LE	21-Mar-2006		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015715	FJM	FILED	TREATMENT OF PETROLEUM COKES TO INHIBIT COKE PUFFING	BALL, DR ORAC, TH QUANDT, HC
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
BR	Published	ORD	P18903713.8	26-Jul-1989	1322184	14-Sep-1993	OL	14-Sep-2010			
CA	GRANTED	ORD			1322184	14-Sep-1993	OL	14-Sep-2010			
CN	GRANTED	ORD	89107310.8	24-Jul-1989	89107310.8	14-Apr-1995	OL	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	OL	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-2008			
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	OL	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			

Division	GRER	Graphite Electrode Related						
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	
US	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	LE	02-Jun-2009	
YU	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	

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
015783	FJM	FILED	METHOD FOR TREATING A GRAPHITE OR CARBON BODY TO FORM A PROTECTIVE COATING	COLEMAN, PD WISE, FE
	UCAR Carbon Technology Corp			

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US	-1	GRANTED	CON	725892	01-Jul-1991	5143749	01-Sep-1992	LE	01-Sep-2009		

Wednesday, November 04, 1998

Master List By Division

Page: 80

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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015962	FJM	FILED	HIGH STRENGTH CARBONACEOUS CEMENT	CHIU, CC
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UCAR Carbon Technology Corp

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

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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016259	FIM	FILED	METHOD OF ON-LINE MONITORING OF AN ELECTRIC ARC FURNACE AND METHOD OF CONTROL	GULDEN, G PENKAL, KW
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent Agent Ref #
BR		PENDING	ORD P19004217.4	27-Aug-1990				27-Aug-2005	
CA		GRANTED	ORD 2024089-0	27-Aug-1990	2024089	21-Nov-1995		27-Aug-2010	
DE		PENDING	EPC 90116235.4	24-Aug-1990				24-Aug-2010	
EP		GRANTED	ORD 90116235.4	24-Aug-1990	0415280	25-Sep-1996		24-Aug-2010	
ES		GRANTED	EPC 90116235.4	24-Aug-1990	2091781 T3	25-Sep-1996		24-Aug-2010	
FR		PUBLISHED	EPC 90116235.4	24-Aug-1990				24-Aug-2010	
GB		PENDING	EPC 90116235.4	24-Aug-1990				24-Aug-2010	
IT		PENDING	EPC 90116235.4	24-Aug-1990				24-Aug-2010	
MX		GRANTED	ORD	27-Aug-1990	173154	27-Sep-1995		27-Aug-2010	
US		GRANTED	ORD 398968	28-Aug-1989	5099438	24-Mar-1992	LE	24-Mar-2009	

Wednesday, November 04, 1998

Master List By Division

Page: 82

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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016468	FJM	FILED	APPARATUS FOR TREATMENT OF PETROLEUM COKES WITH A PUFFING INHIBITOR IN A ROTARY CALCINER	ORAC, TH
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE		GRANTED	EPC 91203318.0	16-Dec-1991	0491442	01-Jun-1994		16-Dec-2011		
EG		GRANTED	ORD 760/91	16-Dec-1991	20210	30-Nov-1997		16-Dec-2011		
EP		GRANTED	ORD 91203318.0	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	26-Dec-1995	LE	15-Feb-2015		

Wednesday, November 04, 1998

Master List By Division

Page: 83

Division GRER Graphite Electrode Related

Case Number Attorney Disclosure Status Title Inventors

016560 FJM FILED IMPROVEMENT IN ARC FURNACE BOWMAN, BB  
REGULATOR PERFORMANCE

UCAR Carbon Technology Corp

Country	Sub Case	Case Application Type	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	PENDING	ORD 2059062	09-Jan-1992				09-Jan-2012		
DE	GRANTED	EPC 92200056.7	09-Jan-1992	69201573.6	08-Mar-1995		09-Jan-2012		
EP	GRANTED	ORD 92200056.7	09-Jan-1992	0494720	08-Mar-1995		09-Jan-2012		
FR	GRANTED	EPC 92200056.7	09-Jan-1992	0494720	08-Mar-1995		09-Jan-2012		
IT	GRANTED	EPC 92200056.7	09-Jan-1992	0494720	08-Mar-1995	EP	09-Jan-2012		
MX	GRANTED	ORD 9200092	09-Jan-1992	180375	11-Dec-1995		09-Jan-2012		
US	GRANTED	ORD 639547	10-Jan-1991	5115447	19-May-1992	LE	19-May-2009		



Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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016694	FIM	FILED	METHOD FOR OPERATING AN ELECTRODE GRAPHITIZATION FURNACE	DAGATA, FJ POLITOWICZ, KG
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	677109	29-Mar-1991	5117439	26-May-1992	LE	26-May-2009		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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017188	FJM	FILED	FASTENING ELEMENT FOR SECURING ELECTRODE JOINTS	BIORNESTAD, JL FRASTACI, M HOTCHKISS, OW MONCRIEF, HC SMITH, RE WISE, FE
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	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		
IN		PENDING	ORD		08-Dec-1993				08-Dec-2007		
IT		PENDING	EPC	94100139.8	07-Jan-1994				07-Jan-2014		
JP		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		
MY		PENDING	ORD	PI9400066	11-Jan-1994						
TW		GRANTED	ORD	83102453	21-Mar-1994	NI086775	21-May-1997				
US		GRANTED	ORD	153624	17-Nov-1993	5415755	16-May-1995	LE	16-May-2012		

Wednesday, November 04, 1998

Master List By Division

Page: 86

Division GRER Graphite Electrode Related

Division GREER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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017198	FJM	FILED	CONTINUOUS METHOD FOR INCREASING THE Q.I. CONCENTRATION OF LIQUID TAR WHILE CONCURRENTLY PRODUCING A Q.I. FREE TAR	CHANG, CF GILLESKIE, GL KELLER, GE LEWIS, IC SHAO, RL
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
BR		PENDING	ORD	P19601166-1	28-Mar-1996				11-Mar-2016	212	
DE		PENDING	EPC	95308207.0	16-Nov-1995				16-Nov-2015		
EP		PUBLISHED	ORD	95308207.0	16-Nov-1995				16-Nov-2015		
ES		PENDING	EPC	95308207.0	16-Nov-1995				16-Nov-2015		
FR		PENDING	EPC	95308207.0	16-Nov-1995				16-Nov-2015		
IT		PENDING	EPC	95308207.0	16-Nov-1995				16-Nov-2015		
JP		PENDING	ORD	025672/96	13-Feb-1996			LE	13-Feb-2016		
US		GRANTED	ORD	341395	17-Nov-1994	5534133	09-Jul-1996	LE			
ZA		GRANTED	ORD	962599	01-Apr-1996	962599	31-Dec-1996		01-Apr-2016		

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
017253	FJM	FILED	FASTENING DEVICE FOR SECURING ELECTRODE JOINTS	FRASTACI, M

UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
BE		PENDING	EPC		29-Dec-1995				29-Dec-2015		
CA		PENDING	ORD	2167226	15-Jan-1996				15-Jan-2016		
CN		PUBLISHED	ORD	96104322.9	17-Jan-1996			PA	17-Jan-2016	160	
DE		PENDING	EPC		29-Dec-1995				29-Dec-2015		
EP		PUBLISHED	ORD	96300288.6	16-Jan-1996				16-Jan-2016		
ES		PENDING	EPC		29-Dec-1995				29-Dec-2015		
FR		PENDING	EPC		29-Dec-1995				29-Dec-2015		
GB		PENDING	EPC		29-Dec-1995				29-Dec-2015		
IT		PENDING	EPC		29-Dec-1995				29-Dec-2015		
JP		PENDING	ORD	006811/96	18-Jan-1996				18-Jan-2016		
KR		PENDING	ORD	698/96	16-Jan-1996				16-Jan-2016		
MX		PENDING	ORD	960232	15-Jan-1996				15-Jan-2016		
MY		PENDING	ORD	P19600155	16-Jan-1996				16-Jan-2016		
TW		GRANTED	ORD	85100159	08-Jan-1996	N1084090	21-Jan-1997		08-Jan-2016		
US		GRANTED	ORD	374937	18-Jan-1995	5575582	19-Nov-1996	LE			

Wednesday, November 04, 1998

**Master List By Division**

Page: 89

Division GRER Graphite Electrode Related

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
017345	FJM	FILED	PRE-HEATING FURNACE FOR BAKED AMORPHOUS CARBON BODIES	INTERMILL, AW NAGY, CC

UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application 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	
CA		PENDING	ORD	2177750	30-May-1996			LE	30-May-2016	814	
CN		Published	ORD	96110080.X	30-May-1996			LE		160	
DE		PENDING	EPC		15-May-1996			LE		784	
EP		PUBLISHED	ORD	96303960.7	31-May-1996			LE	31-May-2016	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	
MX		PENDING	ORD	962055	30-May-1996			LE	30-May-2016	612	
MY		PENDING	ORD	PI9602065	29-May-1996			LE		805	
PL		PENDING	ORD	P314521	29-May-1996			LE	29-May-2016	996	
RU		PENDING	ORD	96110403	30-May-1996			LE	30-May-2016	901	
US		Granted	ORD	454739	31-May-1995	5751759	12-May-1998	LE			

Wednesday, November 04, 1998

**Master List By Division**

Page: 91

Division GRER Graphite Electrode Related



Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
017389	FJM	Open	GRAPHITE ELECTRODE WITH SLANTED END SURFACES FOR ELECTRIC-ARC FURNACES	

Remarks: WATCH SERVICE

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE	WS	FILED	ORD	P4215897.4							

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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017413	FJM	Filed	APPARATUS FOR LENGTHWISE GRAPHITIZATION (LWG) OF CARBON ELECTRODE BODIES	INTERMILL, AW LEHR, DA WISE, FE
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Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
BE		FILED	EPC		08-Nov-1996					845	
BR		FILED	ORD	PI9605639-8	20-Nov-1996					212	
CA		FILED	ORD	2190680	19-Nov-1996					814	
CN		PUBLISHED	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	ORD		08-Nov-1996	25862	07-Mar-1998		08-Nov-2016	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	

Division	GRER	Graphite Electrode Related				
MY	FILED	ORD P19604796	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
US	GRANTED	ORD 561369	21-Nov-1995	5631919	20-May-1997	LE
ZA	GRANTED	ORD 969732	19-Nov-1996	969732	27-Aug-1997	
						009

Wednesday, November 04, 1998

Master List By Division

Page: 95

Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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030006	FIM	Open	PRODUCTION OF SOLIDS-FREE COAL TAR PITCH	CHANG, CF LEWIS, IC
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UCAR Carbon Technology Corp  
ORAC, TH  
SHAO, RL

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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US		PENDING	ORD	722469	27-Sep-1996			LE			
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WO		PENDING	ORD	US97/16677	24-Sep-1997			LE			
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ZA		Granted	ORD	978432	18-Sep-1997	97/8432	24-Jun-1998	LE	18-Sep-2017		
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Division GRER Graphite Electrode Related

Case Number	Attorney	Disclosure Status	Title	Inventors
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030019	FIM	Filed	GRAPHITE ELECTRODES INCORPORATING STRESS-RELIEVING SLOTS	BOWMAN, B WELCH, RR
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		Pending	ORD	136245	19-Aug-1998			LE			

Wednesday, November 04, 1998

Master List By Division

Page: 97

Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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013128	FJM	FILED	PROCESS FOR IMPROVED ACTIVATED CARBON	KAMPE, DJ SARANGAPANI, S
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1187860	28-May-1985		28-May-2002		
US		GRANTED	ORD	393988	30-Jun-1982	4438216	20-Mar-1984	LE	20-Mar-2001		

Case Number	Division	GRSP	Graphite Specialty	Attorney	Disclosure Status	Title	Inventors				
013164				FJM	FILED	METAL CURRENT CARRIER FOR ELECTROCHEMICAL CELL ELECTRODES	EDWARDS, LG HOWARD, RA SARANGAPANI, S				
						UCAR Carbon Technology Corp					
Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	393390	29-Jun-1982	4476002	09-Oct-1984	LE	09-Oct-2001		

Case Number	Division	GRSP	Graphite Specialty	Attorney	Disclosure Status	Title	Inventors
013276				FJM	FILED	IMPROVED GAS DIFFUSION ELECTRODE	DOWELL, MB KAMPE, DJ
	UCAR Carbon Technology Corp						

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1217177	27-Jan-1987		27-Jan-2004		
US		GRANTED	ORD	393389	29-Jun-1982	4472460	18-Sep-1984	LE	18-Sep-2001		



Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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013639	FJM	FILED	IMPROVED PROCESS OF MAKING ELECTROCHEMICAL ELECTRODES AND ELECTRODES MADE THEREBY	HOWARD, RA SROCKY, PS
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1221658	12-May-1987		12-May-2004		

Wednesday, November 04, 1998

Master List By Division

Page: 101

Case Number	Division	GRSP	Graphite Specialty	Attorney	Disclosure Status	Title	Inventors
013676				FJM	FILED	PROCESS FOR MAKING PITCH-FREE GRAPHITIC ARTICLES	CRISCIONE, JM MONTGOMERY, LC
						UCAR Carbon Technology Corp	
CA		PENDING		ORD 463252	14-Sep-1984		

Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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013800	FJM	FILED	OXIDATION PROHIBITIVE COATINGS FOR CARBONACEOUS ARTICLES	SARA, RV
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UCAR Carbon Technology Corp

Country	Sub Case Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	GRANTED	ORD			1228370	20-Oct-1987	OL	20-Oct-2004		

Wednesday, November 04, 1998

Master List By Division

Page: 103

Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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014026	FTM	FILED	IMPROVED NUCLEAR GRAPHITE AND PROCESS FOR MAKING SAME	CRISCIONE, JM MERCURI, RA
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA	GRANTED	ORD	1228456	27-Oct-1987	OL	27-Oct-2004				
EP	GRANTED	ORD	84308849.3	18-Dec-1984	0146399	11-Jul-1990		18-Dec-2004		
FR	GRANTED	EPC	84308849.3	18-Dec-1984	0146399	11-Jul-1990		18-Dec-2004		
GB	GRANTED	EPC	84308849.3	18-Dec-1984	0146399	11-Jul-1990		18-Dec-2004		

Wednesday, November 04, 1998

Master List By Division

Page: 104

Division GRSP Graphite Specialty

Case Number Attorney Disclosure Status Title Inventors

015104 FJM FILED PROCESS FOR PRODUCING HIGH DENSITY CARBON AND GRAPHITE ARTICLES CRISCIONE, JM MONTGOMERY, LC

UCAR Carbon Technology Corp

Country	Sub	Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
EP	-1	GRANTED	ORD 89107849.5	29-Apr-1989	0340697	15-Dec-1993		29-Apr-2009		
FR	-1	GRANTED	EPC 89107849.5	29-Apr-1989	0340697	15-Dec-1993		29-Apr-2009		
GB	-1	GRANTED	EPC 89107849.5	29-Apr-1989	0340697	15-Dec-1993		29-Apr-2009		
IT	-1	GRANTED	EPC 89107849.5	29-Apr-1989	0340697	15-Dec-1993	EP	29-Apr-2009		
JP	-1	GRANTED	ORD 113514/89	02-May-1989	2505880	02-Apr-1996		02-May-2009		
US	-1	GRANTED	CIP 189762	03-May-1988	4847021	11-Jul-1989	LE	11-Jul-2006		

Wednesday, November 04, 1998

Master List By Division

Page: 105

Case Number	Division	GRSP	Graphite Specialty	Attorney	Disclosure Status	Title	Inventors
015147				FIM	FILED	IMPROVED BINDER SYSTEM FOR CASTABLE CERAMICS	MANDORF, V
	UCAR Carbon Technology Corp						

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	808750	13-Dec-1985	4735974	05-Apr-1988	LE	05-Apr-2005		

Wednesday, November 04, 1998

Master List By Division

Page: 106

Division GRSP Graphite Specialty

Case Number Attorney Disclosure Status Title Inventors

015656 FJM FILED TOPICAL TREATMENT FOR SEALING NOE, JB  
CARBON AND GRAPHITE SURFACES

UCAR Carbon Technology Corp

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent Ref #
CA	-1	GRANTED	ORD	2003653.2	22-Nov-1989	2003653	09-Jul-1996		22-Nov-2009	Sim
EP		GRANTED	ORD	88305478.5	15-Jun-1988	0296757	01-Dec-1993		15-Jun-2008	
EP	1	OPPOSITION	ORD	88305478.5	15-Jun-1988	0296757	01-Dec-1993		15-Jun-2008	
IT		GRANTED	EPC	88305478.5	15-Jun-1988	0296757	01-Dec-1993	EP	15-Jun-2008	
IT	1	GRANTED	EPC	89312144.2	22-Nov-1989	0370799	17-Mar-1993	EP	22-Nov-2009	
US		GRANTED	ORD	274778	23-Nov-1988	5019426	28-May-1991	LE	28-May-2008	

Wednesday, November 04, 1998

Master List By Division

Page: 107

Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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016258	FJM	FILED	A PROCESS FOR ISOSTATIC MOLDING	MILLER, DJ
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE		GRANTED	EPC	91118812.6	05-Nov-1991	0540771	18-Jan-1995		05-Nov-2011		
EP		GRANTED	ORD	91118812.6	05-Nov-1991	0540771	18-Jan-1995		05-Nov-2011		
FR		GRANTED	EPC	91118812.6	05-Nov-1991	0540771	18-Jan-1995		05-Nov-2011		
JP		PENDING	ORD	318449/91	06-Nov-1991						
US		GRANTED	ORD	495640	19-Mar-1990	5107437	21-Apr-1992	LE	21-Apr-2009		



Case Number	Division	GRSP	Graphite Specialty	Attorney	Disclosure Status	Title	Inventors
016397				FIM	FILED	TERNARY BRAZING ALLOY FOR CARBON OR GRAPHITE	SARA, RV
	UCAR Carbon Technology Corp						

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		GRANTED	ORD	633409	21-Dec-1990	5102621	07-Apr-1992	LE	07-Apr-2009		

Wednesday, November 04, 1998

Master List By Division

Page: 109

Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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016440	FIM	FILED	PROCESS FOR PRODUCING HIGH SURFACE AREA ACTIVATED CARBON	BALL, DR GRENKE, RA
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UCAR Carbon Technology Corp

LEWIS, IC

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD	2047474	19-Jul-1991	2047474	03-Sep-1996		19-Jul-2011		
DE		GRANTED	EPC	91201910.6	19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
EP		GRANTED	ORD	91201910.6	19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
FR		GRANTED	EPC	91201910.6	19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
GB		GRANTED	EPC	91201910.6	19-Jul-1991	0467486	29-Mar-1995		19-Jul-2011		
JP		PENDING	ORD	203324/91	19-Jul-1991						
US		GRANTED	ORD	554810	20-Jul-1990	5102855	07-Apr-1992	LE	07-Apr-2009		

Wednesday, November 04, 1998

Master List By Division

Page: 110

Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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016593	FIM	FILED	HIGH SURFACE AREA SULFUR-CONTAINING ACTIVATED CARBON	GREENKE, RA LEWIS, IC
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UCAR Carbon Technology Corp

Country	Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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DE	PENDING	ORD P4314461.6	03-May-1993				03-May-2013		
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JP	PENDING	ORD 104008/93	30-Apr-1993						
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US	-2 GRANTED	CON 670142	27-Jun-1996	5639707	17-Jun-1997	LE			
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Wednesday, November 04, 1998

Master List By Division

Page: 111

Division GRSP Graphite Specialty

Case Number	Attorney	Disclosure Status	Title	Inventors
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016828	FIM	FILED	A GLASSY CARBON COATED GRAPHITE COMPONENT FOR USE IN THE PRODUCTION OF SILICON CRYSTAL GROWTH	LEWIS, IC MILLER, DJ PIRRO, TA
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UCAR Carbon Technology Corp

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE		PENDING	EPC	92114513.2	26-Aug-1992				26-Aug-2012		
FR		PENDING	EPC	92114513.2	26-Aug-1992				26-Aug-2012		
IT		PENDING	EPC	92114513.2	26-Aug-1992				26-Aug-2012		
JP		PENDING	ORD	230586/92	28-Aug-1992						
US	-2	GRANTED	CON	434495	04-May-1995	5476679	19-Dec-1995	LE	04-May-2015		

Wednesday, November 04, 1998

Master List By Division

Page: 112

Case Number	Division	GRSP	Graphite Specialty	Attorney	Disclosure Status	Title	Inventors				
016850				FJM	FILED	PITCH BASED IMPREGNANT FOR CARBON AND GRAPHITE AND METHOD	LEWIS, IC PIRRO, TA				
						UCAR Carbon Technology Corp					
Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US	-2	GRANTED	CON	504187	19-Jul-1995	5501729	26-Mar-1996	LE			

Case Number	Division	GRSP	Graphite Specialty	Attorney	Disclosure Status	Title	Inventors				
017199				FLM	Open	METHODS FOR FORMING TITANIUM-SILICON CARBIDE COATINGS ON CARBONACEOUS ARTICLES	SARA, RV SHAO, RL				
				UCAR Carbon Technology Corp							
US	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		UNFILED		ORD						LE	

Wednesday, November 04, 1998

Master List By Division

Page: 114

Division GRSP Graphite Specialty

Case Number Attorney Disclosure Status Title Inventors

030001 FIM Open CHEMICALLY MODIFIED GRAPHITE FOR GREINKE, RA  
ELECTROCHEMICAL CELLS LEWIS, IC

UCAR Carbon Technology Corp

Country	Sub Case Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule Date	Expiration Date	Agent Ref #
DE	Published	ORD 19722487.3	28-May-1997			LE	28-May-2016	
JP	PENDING	ORD 138974/97	28-May-1996			LE	28-May-2016	
US	Granted	ORD 654660	29-May-1996	5756062	26-May-1998	LE		

Wednesday, November 04, 1998

Master List By Division

Page: 115

Division GRSP Graphite Specialty

Case

Number Attorney Disclosure Status Title

Inventors

030002 FJM Open COMPACTED CARBON FOR GREINKE, RA  
ELECTROCHEMICAL CELLS LEWIS, JC

UCAR Carbon Technology Corp

Country	Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE	PENDING	EPC			14-Nov-1996						
EP	PUBLISHED	ORD	96308639.2		29-Nov-1996						
GB	PENDING	EPC			14-Nov-1996						
JP	PENDING	ORD	320156/96		29-Nov-1996						
US	GRANTED	ORD	654644		29-May-1996	5677082	14-Oct-1997	LE			



Wednesday, November 04, 1998

Master List By Division

Page: 116

Division GRSP Graphite Specialty

Case Number Attorney Disclosure Status Title Inventors

030003 FIM Open HETEROATOM INCORPORATED COKE FOR GREINKE, RA  
ELECTROCHEMICAL CELLS LEWIS, IC

UCAR Carbon Technology Corp

Country	Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
DE	GRANTED	ORD	19703954.5	03-Feb-1997	19703954	04-Dec-1997	LE				
JP	PENDING	ORD	022949/97	05-Feb-1997			LE				
US	GRANTED	ORD	654661	29-May-1996	5639576	17-Jun-1997	EE				

Wednesday, November 04, 1998

Master List By Division

Page: 117

Division NCB Not Current Business

Case Number Attorney Disclosure Status Title Inventors

010606 FIM FILED OXIDATION RESISTANT POROUS SARA, RV  
ABRADABLE SEAL MEMBER FOR HIGH  
TEMPERATURE SERVICE  
UCAR Carbon Technology Corp

Country	Case Status	Sub	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule Date	Expiration Date	Agent	Agent Ref #
CA	GRANTED		ORD		1097102	10-Mar-1981		10-Mar-1998		
US	-1 GRANTED		CON		4155755	22-May-1979		22-May-1996		
US	-2 GRANTED		CON		4251272	17-Feb-1981		17-Feb-1998		

Division NCB Not Current Business

Case Number	Attorney	Disclosure Status	Title	Inventors
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010644	FJM	FILED	NITROGEN LINKED CYCLIC POLYETHER ION BINDING POLYMERIC LIQUID PURIFICATION MATERIAL	FROST, LW
	UCAR Carbon Technology Corp			

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1045747	02-Jan-1979		02-Jan-1996		

Wednesday, November 04, 1998

Master List By Division

Page: 119

Case Number	Division NCB	Attorney	Not Current Business	Disclosure Status	Title	Inventors					
010661		FJM		FILED	HIGH STRENGTH CAST MODULES FOR SUPPORTING REVERSE OSMOSIS MEMBRANES	MEIER, JF SMITH, JDB					
		UCAR Carbon Technology Corp									
Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1083496	12-Aug-1980		12-Aug-1997		

Case Number	Division	NCB	Attorney	Not Current Business	Disclosure Status	Title	Inventors
011326			FJM		FILED	STRESS RELIEVING OF METAL/S/CERAMIC ABRADABLE SEALS	ELBERT, RJ SARA, RV
						UCAR Carbon Technology Corp	

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1104800	14-Jul-1981		14-Jul-1998		
US		GRANTED	ORD			4194673	25-Mar-1980		25-Mar-1997		

Wednesday, November 04, 1998

Master List By Division

Page: 121

Division NCB Not Current Business

Case

Number Attorney Disclosure Status Title Inventors

011352 FIM FILED ELECTROLYTIC CELL BOTTOM BARRIER VADLA, JJ  
FORMED FROM EXPANDED GRAPHITE WILDER, HS

UCAR Carbon Technology Corp

Keyword(s):

GRAFOIL

Sub	Case Application	Filing	Patent	Issue	Tax	Expiration	Agent	Agent Ref #
Country	Case Status	Type	Number	Date	Schedule	Date	Agent	Agent Ref #

US GRANTED ORD 4175022 20-Nov-1979 20-Nov-1996

Wednesday, November 04, 1998

Master List By Division

Page: 122

Division NCB Not Current Business

Case Number	Attorney	Disclosure Status	Title	Inventors
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012239	FJM	FILED	DEFORMATION PROCESS FOR PRODUCING STRESS RELIEVED METAL/CERAMIC ABRADABLE SEALS	SARA, RV
UCAR Carbon Technology Corp				

Country	Sub Case	Status	Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD			1151698	09-Aug-1983		09-Aug-2000		
CA	-1	GRANTED	DIV			1163284	06-Mar-1984		06-Mar-2001		
EP		GRANTED	ORD	79105272.3	19-Dec-1979	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	NT	12-Apr-2000		

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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015720	FJM	FILED	FURNACE COOLING SYSTEM AND METHOD	ENGSTROM, RJ HEGGART, RG MCCLINTOCK, WK
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AR		GRANTED	ORD	ORD	237447	29-Jul-1988			29-Jul-2003		
AT		GRANTED	EPC	85905348.0	15-Oct-1985	59101	12-Dec-1990	EP	15-Oct-2005		
AU		GRANTED	PCT		15-Oct-1985	592957	01-Aug-1990		15-Oct-2005		
BE		GRANTED	EPC	85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005		
BR		GRANTED	PCT	P18506980.9	15-Oct-1985	P18506980.9	25-Sep-1990		15-Oct-2000		
CA		GRANTED	ORD			1257473	18-Jul-1989		18-Jul-2006		
CH		GRANTED	EPC	85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005		
DE		GRANTED	EPC	85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005		
FP		GRANTED	PCT	85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005		
EP	-1	MAINTAINED	ORD	85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005		
ES		GRANTED	ORD	547797		547797	14-Jan-1987	OL	14-Jan-2007		
ES	-1	GRANTED	DIV	557110		557110	26-Aug-1987	OL	26-Aug-2007		
FR		GRANTED	EPC	85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005		
GB		GRANTED	EPC	85905348.0	15-Oct-1985	0197137	12-Dec-1990		15-Oct-2005		



	Division	SCS	Spray Cool System								
IN		GRANTED	ORD	10-Oct-1985	164917	31-Jul-1989		10-Oct-1999			
IT		GRANTED	EPC 85905348.0	15-Oct-1985	0197137	12-Dec-1990	EP	15-Oct-2005			
JP		GRANTED	PCT 504735/85	15-Oct-1985	1662052	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			
NL		GRANTED	EPC 85905348.0	15-Oct-1985	0197137	12-Dec-1990	OL	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	EP	15-Oct-2005			
US		GRANTED	ORD 900168	08-Aug-1986	4715042	22-Dec-1987	LE	22-Dec-2004			
US	-1	GRANTED	DIV 136692	22-Dec-1987	4813055	14-Mar-1989	LE	14-Mar-2006			
VE		PENDING	ORD 1746/85	31-Oct-1985				31-Oct-2005			

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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015847	FJM	FILED	COMBINATION LEFT AND RIGHT HANDED FURNACE ROOF	MINER, FH SIEFFER, AM
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Application Type Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
CA		GRANTED	ORD		1332069	20-Sep-1994	OL	20-Sep-2011		
DE		GRANTED	EPC	89113025.4	15-Jul-1989	0367906	27-Oct-1993	15-Jul-2009		
EP		GRANTED	ORD	89113025.4	15-Jul-1989	0367906	27-Oct-1993	15-Jul-2009		
ES		GRANTED	EPC	89113025.4	15-Jul-1989	2045283	27-Oct-1993	15-Jul-2009		
FR		GRANTED	EPC	89113025.4	15-Jul-1989	0367906	27-Oct-1993	15-Jul-2009		
JP		GRANTED	ORD	18585/89	18-Jul-1989	1982930	08-Feb-1995	18-Jul-2009		
MX		GRANTED	ORD		18-Jul-1989	165492	13-Nov-1992	18-Jul-2009		
US		GRANTED	ORD	259898	19-Oct-1988	4849987	18-Jul-1989	LE 18-Jul-2006		
ZA		GRANTED	ORD	89/5475	18-Jul-1989	89/5475	25-Jul-1990	18-Jul-2009		

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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015848	FIM	FILED	IMPROVED COOLING SYSTEM AND METHOD FOR MOLTEN MATERIAL HANDLING VESSELS	BURWELL, WH
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Application Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AR		GRANTED	ORD	242523	30-Apr-1993	30-Apr-2008					
CA		GRANTED	ORD	1317103	04-May-1993	04-May-2010	OL				
CN		Granted	ORD	89100163	10-Jan-1989	38990	22-Nov-1997	OP	10-Jan-2004		
DE		GRANTED	EPC	88312270.7	23-Dec-1988	0335042	15-Dec-1993		23-Dec-2008		
EP		GRANTED	ORD	88312270.7	23-Dec-1988	0335042	15-Dec-1993		23-Dec-2008		
EP	-1	OPPOSITION	ORD	88312270.7	23-Dec-1988	0335042	15-Dec-1993		23-Dec-2008		
GB		GRANTED	EPC	88312270.7	23-Dec-1988	0335042	15-Dec-1993		23-Dec-2008		
IN		GRANTED	ORD		09-May-1988	172743	05-Aug-1994		09-May-2002		
JP		GRANTED	ORD	335714/88	28-Dec-1988	2583301	21-Nov-1996				
KR		GRANTED	ORD	88-17937	30-Dec-1988	67764	17-Nov-1993	OL	30-Dec-2008		
MX		GRANTED	ORD		15-Dec-1988	165295	04-Nov-1992		15-Dec-2008		
PL		GRANTED	ORD		23-Jan-1989	161418	19-Jan-1994		23-Jan-2009		
RU		GRANTED	ORD		05-Jan-1989	1739861	07-Jun-1992		05-Jan-2009		
TW		GRANTED	ORD			NI-41225	20-Dec-1990		11-Sep-2005		

Wednesday, November 04, 1998

Master List By Division

Page: 127

Division	SCS	Spray Cool System					
US	GRANTED	ORD	165609	08-Mar-1988	4815096	21-Mar-1989	LE 21-Mar-2006

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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016709	FJM	FILED	COOLING SYSTEM FOR FURNACE ROOF HAVING A REMOVABLE DELTA	ARTHUR, MT MINER, FH
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

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

Master List By Division

Division	SCS	Spray Cool System							
MX	GRANTED	ORD 9200219	17-Jan-1992	178843	21-Jul-1995		17-Jan-2012		
NL	GRANTED	EPC 92200140.9	17-Jan-1992	0506151	19-Apr-1995	EP	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		
US	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, November 04, 1998

Master List By Division

Page: 130

Division SCS      Spray Cool System

Case  
Number      Attorney      Disclosure Status      Title      Inventors

017069      FIM      FILED      WATCH SERVICE ON GERMAN  
PUBLICATION DE 4103508

UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Sub      Case Application      Filing      Patent      Issue      Tax      Expiration  
Country Case Status      Type Number      Date      Number      Date      Schedule Date      Agent      Agent Ref #

BR      OPPOSITION      ORD 9204119-1      17-Nov-1993      9204119-1      25-Aug-1998      17-Nov-2013

DE      WS PENDING      ORD      11-Nov-1992      11-Nov-2012

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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017070	FJM	FILED	DEVICE FOR RELIEF OF THERMAL STRESS IN SPRAY COOLED FURNACE ELEMENTS	ARTHUR, MT ROBERTS, GR
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AR		Granted	ORD	326998	22-Dec-1993	251508	02-Feb-1998		22-Dec-2013		
DE		Granted	EPC	93203637.8	22-Dec-1993	69318272	29-Apr-1998		22-Dec-2013		
FR		PENDING	EPC	93203637.8	22-Dec-1993				22-Dec-2013		
GB		PENDING	EPC	93203637.8	22-Dec-1993				22-Dec-2013		
ID		PENDING	ORD	P-007310	23-Dec-1993				23-Dec-2009		
IT		GRANTED	EPC	93203637.8	22-Dec-1993	21356/BE/98	01-Apr-1998		22-Dec-2013		
JP		PENDING	ORD	348097/93	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-Jul-2011		



Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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017106	FIM	FILED	DEVICE FOR LIFTING AND MOVING THE ROOF OF A SPRAY COOLED FURNACE	ARTHUR, MT MINER, FH
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Application Type 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, November 04, 1998

Master List By Division

Page: 133

Division SCS      Spray Cool System

IE	PENDING	EPC 94200351.8	17-Feb-1994	E75934		17-Feb-2014
IT	GRANTED	EPC 94200351.8	17-Feb-1994	26170/BE/97	07-Aug-1997	
JP	PENDING	ORD 019405/94	16-Feb-1994			
KR	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			
NL	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
TH	PENDING	ORD 021574	17-Feb-1994			17-Feb-2014
TW	PUBLISHED	ORD 83102466	19-Mar-1994	NI071701		19-Mar-2014
US	GRANTED	ORD 019203	18-Feb-1993	5444734	22-Aug-1995	22-Aug-2012

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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017148	FIM	FILED	SPRAY COOLED HOOD SPRAY FOR HANDLING HOT GASES FROM A METALLURGICAL VESSEL UTILIZING PNEUMATIC PROCESSING OF MOLTEN METAL	ARTHUR, MT LEHR, DA ROBERTS, GR
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AT		PENDING	EPC	94105308.4	06-Apr-1994				06-Apr-2014		
AU		GRANTED	ORD	59343/94	07-Apr-1994	664526	16-Nov-1995		07-Apr-2014		
BR		PENDING	ORD	PI9401436-1	07-Apr-1994				07-Apr-2009		
CA		PENDING	ORD	2120794	07-Apr-1994				07-Apr-2014		
CN		Granted	ORD	94105287.7	07-Apr-1994	1039656	13-May-1998	PA	07-Apr-2014		
DE		PENDING	EPC	94105308.4	06-Apr-1994				06-Apr-2014		
EP		PENDING	ORD	94105308.4	06-Apr-1994				06-Apr-2014		
FR		PENDING	EPC	94105308.4	06-Apr-1994				06-Apr-2014		
GB		PENDING	EPC	94105308.4	06-Apr-1994				06-Apr-2014		
GR		PENDING	EPC	94105308.4	06-Apr-1994				06-Apr-2014		
IT		PENDING	EPC	94105308.4	06-Apr-1994				06-Apr-2014		
JP		Granted	ORD	069292/94	07-Apr-1994	2804228	17-Jul-1998		07-Apr-2014		
KR		PENDING	ORD	7239/94	07-Apr-1994						

Master List By Division

Division	SCS	Spray Cool System						
MX	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			
US	GRANTED	ORD 088800	08-Jul-1993	5330161	19-Jul-1994	LE	19-Jul-2011	
ZA	GRANTED	ORD 94/2406	07-Apr-1994	94/2406	22-Feb-1995		07-Apr-2014	

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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017247	FJM	FILED	COOLING SYSTEM FOR A TWO COMPONENT FURNACE ROOF	ARTHUR, MT MINER, FH
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
BR		PENDING	ORD	P195052500	21-Nov-1995				21-Nov-2010		
CN		PUBLISHED	ORD	95121870.0	21-Nov-1995			PA	21-Nov-2015		
DE		PENDING	EPC	95308371.4	22-Nov-1995				22-Nov-2015		
EP		PUBLISHED	ORD	95308371.4	22-Nov-1995				22-Nov-2015		
ES		PENDING	EPC	95308371.4	22-Nov-1995				22-Nov-2015		
FR		PENDING	EPC	95308371.4	22-Nov-1995				22-Nov-2015		
GB		PENDING	EPC	95308371.4	22-Nov-1995				22-Nov-2015		
IT		PENDING	EPC	95308371.4	22-Nov-1995				22-Nov-2015		
JP		PENDING	ORD	328017/95	22-Nov-1995				22-Nov-2015		
RU		PENDING	ORD	95120005.00	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			

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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017285	FJM	FILED	MODULAR SPRAY COOLED SIDE-WALL FOR ELECTRIC ARC FURNACES	ARTHUR, MT BURWEL, WH
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

LEHR, DA  
MINER, FH  
ROBERTS, GR

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AR		PUBLISHED	ORD	P960102328	26-Apr-1996			LE			
AU		PENDING	ORD	5083396	24-Apr-1996			LE			
BR		PENDING	ORD	PI 9602083-0	26-Apr-1996			LE	26-Apr-2011	212	
CA		PENDING	ORD	2175109	26-Apr-1996			LE	26-Apr-2016		
CN		PUBLISHED	ORD	96108923.7	26-Apr-1996			LE	26-Apr-2016		
DE		PENDING	EPC		15-Apr-1996			LE			
EP		PUBLISHED	ORD	96302901.2	25-Apr-1996			LE	25-Apr-2016		
FR		PENDING	EPC		15-Apr-1996			LE			
GB		PENDING	EPC		15-Apr-1996			LE			
IT		PENDING	EPC		15-Apr-1996			LE			
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			LE	25-Apr-2016		
TW		Granted	ORD	85109269	30-Jul-1996		04-Jul-1998	LE	30-Jul-2016		

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

Wednesday, November 04, 1998

Master List By Division

Page: 139

Division SCS      Spray Cool System

Case

Number	Attorney	Disclosure Status	Title	Inventors
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030004	FJM	Open	FURNACE COOLING APPARATUS	
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UCAR CARBON TECH/DAIDO STEEL

Keyword(s):

NOTE: REF P-FILE 1360-15-2-1

Country	Case Status	Type	Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
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JP	Granted	ORD	1-210958		2753540	13-Jan-1998				750
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Wednesday, November 04, 1998

Master List By Division

Page: 140

Division SCS      Spray Cool System

Case

Number      Attorney      Disclosure Status      Title      Inventors

030005      FJM      Open      DAIDO STEEL CO., LTD.

UCAR CARBON TECH/DAIDO STEEL

Keyword(s):

SPRAY COOL SYSTEM

Sub      Case Application      Filing      Patent      Issue      Tax      Expiration      Agent      Agent Ref #  
Country Case Status      Type Number      Date      Number      Date      Schedule Date

JP      UNFILED      ORD 1-2252286

750

Wednesday, November 04, 1998

Master List By Division

Page: 141

Division SCS Spray Cool System

Case Number	Attorney	Disclosure Status	Title	Inventors
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030007	FJM	Open	PANELIZED SPRAY-COOLED FURNACE ROOF	ARTHUR, MT BELLWOOD, E
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UCAR Carbon Technology Corp

Keyword(s):

SPRAY COOL SYSTEM

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
AR		PENDING	ORD	P970104438	26-Sep-1997			LE			
TW		PENDING	ORD	86114030	24-Sep-1997			LE			
US		PENDING	ORD	722362	27-Sep-1996			LE			
WO		PENDING	ORD	US97/16676	24-Sep-1997			LE			
ZA		Granted	ORD	978430	18-Sep-1997	97/8430	24-Jun-1998	LE	18-Sep-2017		

Case Number	Division	SCS	Spray Cool System	Attorney	Disclosure Status	Title	Inventors
030017				FJM	Filed	NOZZLE FOR SPRAYING LIQUIDS	ARTHUR, MT MINER, FH
	UCAR Carbon Technology Corp						

Country	Sub Case	Status	Case Type	Application Number	Filing Date	Patent Number	Issue Date	Tax Schedule	Expiration Date	Agent	Agent Ref #
US		Pending	ORD	135741	18-Aug-1998			LE			