FORM PTO-1595 1-31-92	VER SHEET I.I.T.O.Z U.S. DEPARTMENT OF COL PALENT and Tradem	
To the Honorable Commissioner of Patents and Trademarks. Please	record the attached original documents or copy thereof.	
1. Name of conveying party(ies): Adolf KUEHNLE Guido FRIES Roger Arthur SHELDON Mark DUDA Jochen KIRCHHOFF Sasidharan MANICKAM Carsten JOST Thomas SCHIFFER Isabella W.C.E ARENDS	1 Name: Innovation mbH 5 Address: Paul-Baumann-Strasse 1, D-45764 Marl, Germany	
Additional name(s) of conveying party(ies) attached? Yes No		
 3. Nature of Conveyance: 	01-22-2003 102343516	
Execution Date: 11/29/02;11/29/02; 11/29/02; 11/29/02; 11/29/02; 11/29/02; 11/29/02; 10/02/02; 10/25/02; 10/03/02	Additional name(s) and address(es) attached? \ZYes \Z	
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application, the e	xecution date of the application is:	
A. Patent Application No.(s)	B. Patent No.(s)	
10/239,215		
Additional numbers attach	ed? 🗌 Yes 🛛 No	
5. Name and address of party to whom correspondence concerning document should be mailed:	 6. Total applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 Enclosed Authorized to be charged to deposit account 	
22850	8. Deposit account number: 15-0030	
Tel. (703) 413-3000 Fax. (703) 413-2220	(Attach duplicate copy of this page if paying by deposit account)	
Tel. (703) 413-3000	(Attach duplicate copy of this page if paying by deposit account)	
Tel. (703) 413-3000 Fax. (703) 413-2220	(Attach duplicate copy of this page if paying by deposit account)	
Tel. (703) 413-3000 Fax. (703) 413-2220 DO NOT USE TI 9. Statement and signature To the best of my knowledge and belief, the foregoing information copy of the original document. Norman F. Oblon Name of Person Signing Sign Corwin P. L	(Attach duplicate copy of this page if paying by deposit account) HIS SPACE is true and correct and any attached copy is a true fail Underch Schulary 15, 30 ature Date Jmbach, Ph.D.	
Tel. (703) 413-3000 Fax. (703) 413-2220 DO NOT USE TI 9. Statement and signature To the best of my knowledge and belief, the foregoing information copy of the original document. Norman F. Oblon Name of Person Signing Sign. Corwin P. L Registration Number: 24,618	(Attach duplicate copy of this page if paying by deposit account) HIS SPACE is true and correct and any attached copy is a true faul Umlach Scancer 15, 30 ature Jmbach, Ph.D. on No. 40,211	
Tel. (703) 413-3000 Fax. (703) 413-2220 DO NOT USE TI 9. Statement and signature To the best of my knowledge and belief, the foregoing information copy of the original document. Norman F. Oblon Name of Person Signing Sign Corwin P. L	(Attach duplicate copy of this page if paying by deposit account) HIS SPACE is true and correct and any attached copy is a true faul Umlach Scancer 15, 30 ature Jmbach, Ph.D. on No. 40,211	
Tel. (703) 413-3000 Fax. (703) 413-2220 DO NOT USE TI 9. Statement and signature To the best of my knowledge and belief, the foregoing information copy of the original document. Norman F. Oblon Name of Person Signing Sign. Corwin P. L Registration Number: 24,618	(Attach duplicate copy of this page if paying by deposit account) HIS SPACE is true and correct and any attached copy is a true with the second se	
Tel. (703) 413-3000 Fax. (703) 413-2220 DO NOT USE TI 9. Statement and signature To the best of my knowledge and belief, the foregoing information copy of the original document. Norman F. Oblon Name of Person Signing Registration Number: 24,618 Total number of pages including	(Attach duplicate copy of this page if paying by deposit account) HIS SPACE a is true and correct and any attached copy is a true	

PATENT REEL: 013666 FRAME: 0566

ASSIGNMENT

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

1. Dr. Adolf KÜHNLE, Greifenberger Straße 30, D-45770 Marl, GERMANY;

2. Dr. Mark DUDA, Pfarrer-Barth-Weg 11, D-67071 Ludwigshafen, GERMANY;

3. Dr. Carsten JOST, Bebelstraße14 a, D-45770 Marl, GERMANY

for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.

for which U.S. Application Serial No. ______ for Letters Patent was filed in the U.S. Patent and Trademark Office on ______

____ PCT/ EP01/03289 /

for which an International Application was filed on _____

designating the United States.

AND WHEREAS CREAVIS Gesellschaft für Technologie und Innovation mbH

Paul-Baumann-Straße 1, D-45764 Marl, GERMANY

Process for oxidizing hydrocarbons

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereof, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for good and valuable considerations, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, and prolongations thereof, ASSIGNEE and its assigns and legal representatives to have, hold, exercise, and enjoy the said invention and application, including any and all renewals, reissues, and prolongations thereof, ASSIGNEE and its assigns and legal representatives to have, hold, exercise, and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patents which may be granted therefor, including any and all renewals, reissues, and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE or its assigns or legal representative and to execute any other papers that may be needed in connection with filing said application and securing a Letters Patent thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

201	FULL NAME OF SOLE OR FIRST INVENTOR	INVENTOR'S SIGNATURE	DATE
	Dr. Adolf KÜHNLE	Ace Care	2 9. NOV. 2002
202	FULL NAME OF SECOND JOINT INVENTOR, IF ANY	(INVENTOR'S SIGNATURE	DATE
	Dr. Mark DUDA	Mach Ruda	AGE ENV. AND
203	FULL NAME OF THIRD JOINT INVENTOR, IF ANY		DATE
	Dr. Carsten JOST	lunt fell	
204	FULL NAME OF FOURTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
205	FULL NAME OF FIFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
207	FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
208	FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
209	FULL NAME OF NINTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
210	FULL NAME OF TENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
211	FULL NAME OF ELEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
212	FULL NAME OF TWELFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
			PATENT

REEL: 013666 FRAME: 0567

ASSIGNMENT

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

4. Dr. Guido FRIES, Erlbruch 11, D-45657 Recklinghausen, GERMANY;

5. Dr. Jochen KIRCHHOFF, Freistraße 18, D-59348 Lüdinghausen, GERMANY;

6. Dr. Thomas SCHIFFER, Brinkweg 7 c, D-45721 Haltern, GERMANY
for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.

for which U.S. Application Serial No. _____ for Letters Patent was filed in the U.S. Patent and Trademark Office on ...

for which an International Application was filed on _ ____РСТ/ ЕРО1/03289 /

designating the United States.

AND WHEREAS CREAVIS Gesellschaft für Technologie und Innovation mbH

Paul-Baumann-Straße 1, D-45764 Marl, GERMANY

Process for oxidizing hydrocarbons

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application. including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereof, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for good and valuable considerations, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, and prolongations thereof, ASSIGNEE and its assigns and legal representatives to have, hold, exercise, and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patents which may be granted therefor, including any and all renewals, reissues, and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted. including any and all renewals, reissues, prolongations thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE or its assigns or legal representative and to execute any other papers that may be needed in connection with filing said application and securing a Letters Patent thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

201	FULL NAME OF FOURTH INVENTOR	INVENTOR'S SIGNATURE	DATE
Ì	Dr. Guido FRIES	Ferrido Frios	29. NOV. 2002
202	FULL NAME OF FIFTH JOINT INVENTOR, IF ANY	IVENTOR'S SIGNATURE	DATE
	Dr. Jochen KIRCHHOFF	Allmi cho 4	2世, 韩国 《祖汉
203	FULL NAME OF SIX THJOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	Dr. Thomas SCHIFFER	hornas hliffe	
204	FULL NAME OF FOURTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
205	FULL NAME OF FIFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
207	FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
208	FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
209	FULL NAME OF NINTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
210	FULL NAME OF TENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
211	FULL NAME OF ELEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
212	FULL NAME OF TWELFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
			PATENT

REEL: 013666 FRAME: 0568

ASSIGNMENT

Process for oxidizing hydrocarbons

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereof, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for good and valuable considerations, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, and prolongations thereof, ASSIGNEE and its assigns and legal representatives to have, hold, exercise, and enjoy the said invention and application, including any and all renewals, reissues, and prolongations thereof, ASSIGNEE and its assigns and legal representatives to have, hold, exercise, and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patents which may be granted therefor, including any and all renewals, reissues, and prolongations thereof, and continuations thereof, and any and all Letters Patents which may be granted therefor, including any and all renewals, reissues, and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, prolongations thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

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AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

201	FULL NAME OF 7 H INVENTOR	INVENTOR'S SIGNATURE	DATE
	Prof. Dr. Roger Arthur SHELDON	Atsheldon	02-10-2002
202	FULL NAME OF 3 to JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
}	Dr. Sasidharan MANICKAM	Marsidhans	25-10-2002
203	FULL NAME OF Sty JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	Dr. Isabella W. C. E. ARENDS	Geren	03-10-2002
204	FULL NAME OF FOURTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
205	FULL NAME OF FIFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
207	FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
208	FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
209	FULL NAME OF NINTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
210	FULL NAME OF TENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
211	FULL NAME OF ELEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
212	FULL NAME OF TWELFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
		l	PATENT

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

RECORDED: 01/15/2003

REEL: 013666 FRAME: 0569