05-23-2000

UBSTITUTE FORM PTO 1594
1-31-92

RE

101364636

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner [illegible] ched original documents or copy thereof.

1. Name of conveying party(ies): 5.12.00

BancBoston, N.A., f/k/a BancBoston Financial Company

☐ Individual(s) ☐ Association
☐ General Partnership ☐ Limited Partnership
☒ Corporation
☐ Other _____

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

2. Name and address of receiving party(ies):

GL&V Dorr-Oliver, Inc.
612 Wheelers Farm Road-P.O. Box 3819
Milford, CT 06460-8719

RECEIVED
MAY 12 2000

☐ Individual(s) citizenship: _____
☐ Association: _____
☐ General Partnership: _____
☐ Limited Partnership: _____
☒ Corporation: Delaware
☐ Other: _____

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

3. Nature of Conveyance:

☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☒ Other: Release of Security Interest

Execution Date: February 10, 2000

4. Application number(s) or registration number(s):

A. Trademark Application No.(s):

B. Trademark Reg. No.(s): 599,937; 784,374; 894,997 and 895,000

Additional numbers attached ☐ Yes ☒ No

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

Thomas J. Durling, Esq.
Seidel, Gonda, Lavorgna & Monaco, P.C.
Suite 1800 Two Penn Center Plaza
Philadelphia, PA 19102

Attorney Docket No. 7818-61

6. Total number of applications and registrations involved: 4

7. Total fee (37 CFR 3.41) $115.00
☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit Account Number: **19-1135**

DO NOT USE THIS SPACE

9. *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.*

THOMAS J. DURLING
Name of Person Signing

Signature

5/9/00
Date

Total number of pages including cover sheet, attachments and document: 53

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

05/22/2000 DNGUYEN 00000016 191135 599937
01 FC:481 40.00 CH
02 FC:482 75.00 CH

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

266394.1 / 07818.0061 US / REF

RELEASE OF ALL SECURITY INTERESTS GRANTED BY PRIOR AGREEMENT OF 30 APRIL 1987 AND/OR BY LOAN AGREEMENT INCORPORATED BY REFERENCE THEREIN AND ASSIGNMENT BACK TO ASSIGNOR OR SUCCESSOR IN INTEREST THEREOF OF ANY RIGHT, TITLE AND INTEREST, INCLUDING GOODWILL, ASSIGNED BY THE PRIOR AGREEMENT AND/OR BY THE LOAN AGREEMENT

THIS AGREEMENT RELEASING ALL SECURITY INTEREST GRANTED BY PRIOR AGREEMENT DATED 30 APRIL 1987 ("Prior Agreement") AND THE LOAN AGREEMENT REFERENCED THEREIN ("Loan Agreement"), AND ASSIGNING ANY RIGHT, TITLE AND INTERESTS ASSIGNED OR GRANTED BY THE PRIOR AGREEMENT AND THE LOAN AGREEMENT ("Present Agreement"), made as of this 10th day of Feb., 2000 by GL & V/Dorr-Oliver, Inc., a Delaware Corporation having a principal place of business at 612 Wheelers Farm Road, Milford, CT 06460 and BankBoston, N.A, having a place of business at 100 Federal Street, Boston, MA 02110.

W I T N E S S E T H:

WHEREAS, Dorr Ventures, Inc., ("Dorr Ventures") a Delaware Corporation, having at the time a principal place of business at 77 Havemeyer Lane, Stamford, CT and a predecessor in interest to GL & Dorr-Oliver, Inc., and BancBoston Financial Company ("BancBoston"), a corporation having at the time an office located at One Landmark Square, Suite 1810, Stamford, CT and a predecessor in interest to BankBoston, N.A., entered into the Loan Agreement on 30 April 1987, whereby BancBoston loaned a specific sum to Dorr Ventures:

WHEREAS, Dorr Ventures and BancBoston also entered into the Prior Agreement entitled AGREEMENT EVIDENCING AND GRANTING SECURITY INTEREST IN PATENTS, TRADEMARKS AND LICENSES, AND ASSIGNMENT OF PATENTS, TRADEMARKS AND LICENSES on 30 April 1987, which incorporated by reference the Loan Agreement, a copy of the Prior Agreement being attached as Appendix I hereto:

NOW THEREFORE, in consideration of GL & V/Dorr-Oliver, Inc. or its predecessor in interest having fully discharged any and all its duties or obligations under the aforementioned Loan Agreement and Prior Agreement, including having fully paid or otherwise discharged the

debt secured by the Loan Agreement and the Prior Agreement, and for other good and valuable consideration, the sufficiency of the consideration being hereby acknowledged by BankBoston, N.A., and BankBoston, N.A. and GL & V/Dorr-Oliver, Inc. hereby agree as follows:

1. Said Loan Agreement and Prior Agreement shall be and are fully and forever satisfied and discharged, without recourse.

2. Any and all security interests granted by the Prior Agreement and the Loan Agreement, including without limitation the security interests granted by paragraphs 1 and 2 of the Prior Agreement, and any and all interest in trademarks, patents, copyrights, or applications therefore, or trade secrets and other property or interests, including goodwill, listed in Schedules A and B referenced in paragraphs 1 and 2 of the Prior Agreement, are hereby released, and BankBoston, N.A. or its successors in interest shall no longer hold any security interest associated with the Prior Agreement and/or the Loan Agreement to any right, title or interest, including goodwill, of GL & V/Dorr-Oliver, Inc. or its predecessors in interest or to any of its property now or previously owned or hereafter acquired.

3. BankBoston, N.A., without recourse, hereby assigns all right, title and interest, including goodwill, assigned from GL & V/Dorr-Oliver, Inc. or its predecessor in interest by the Prior Agreement and/or the Loan Agreement to BancBoston, and any all right, title and interest, including goodwill, specified by paragraph 3 of the Prior Agreement and/or in Schedules A and B of the Prior Agreement, to GL & V/Dorr-Oliver, Inc. By such assignment BankBoston, N.A. specifically, and without limitation on the above assignment, assigns and transfers the entire right, title and interest, including the goodwill of the business in connection with which the marks are used, in the following trademark registrations to GL & V/Dorr-Oliver, Inc.:

Registration No. 599,937 – Registered on December 28, 1954
MERCONE and Design (Class 7)
Goods: Centrifugal separators.

Registration No. 784,374 – Registered on February 2, 1965
MERCO BOWL (Class 23)
Goods: Centrifugal Separating Devices

Registration No. 894,997 – Registered on July 21, 1970
MERCO (Class 7)
Goods: Industrial centrifuges for extracting solids from fluids and for concentrating solids.

Registration No. 895,000 – Registered on July 21, 1970
MERCO and Design (Class 7)
Goods: Industrial centrifuges for extracting solids from fluids and for concentrating solids.

4. To any extent that the Prior Agreement is not terminated by any other agreement between GL & V/Dorr-Oliver, Inc. and BankBoston, N.A., or their respective predecessors in interest, the Prior Agreement is hereby terminated in accordance with paragraph 10 of the Prior Agreement and all rights, and duties or other obligations, of GL & V/Dorr-Oliver, Inc. and BankBoston, N.A. under the Prior Agreement or the Loan Agreement are hereby terminated.

BankBoston, N.A.

By: Richard T. Bridge Jr.

Title: Service Manager II

Date: 2/3/2000

GL & V/Dorr-Oliver, Inc.

By: R E Coomes
R. E. Coomes

Title: Senior Vice President

Date: February 10, 2000

48.8

AGREEMENT EVIDENCING AND GRANTING SECURITY INTEREST IN PATENTS, TRADEMARKS AND LICENSES, AND ASSIGNMENT OF PATENTS, TRADEMARKS AND LICENSES

THIS AGREEMENT EVIDENCING AND GRANTING SECURITY INTEREST IN PATENTS, TRADEMARKS AND LICENSES, AND ASSIGNMENT OF PATENTS, TRADEMARKS AND LICENSES ("Agreement") made as of this 30th day of April, 1987, by Dorr Ventures, Inc., a Delaware corporation, (which will, on the date hereof, change its name in connection with the merger into it of Dorr-Oliver Incorporated and Keeler/Dorr-Oliver Boiler Company) with its principal place of business at 77 Havemeyer Lane, Stamford, Connecticut ("Assignor"), and BancBoston Financial Company, a corporation with an office located at One Landmark Square, Suite 1810, Stamford, Connecticut 06901 ("Assignee"):

W I T N E S S E T H:

WHEREAS, Assignor has entered into a Loan and Security Agreement, of even date herewith, in favor of Assignee (the "Loan Agreement") pursuant to which Assignor has granted to Assignee a security interest in all the tangible and intangible real and personal property of Assignor, in order to secure the Obligations of Assignor under, and as defined in, the Loan Agreement.

NOW THEREFORE, in consideration of the premises set forth herein and for other good and valuable consideration, receipt and sufficiency of which is hereby acknowledged, Assignor hereby agrees as follows:

1. Incorporation of Loan Agreement. The Loan Agreement and the terms and provisions thereof are hereby incorporated herein by reference as if fully set forth herein.

2. Grant of Security Interest. To secure the payment of the "Obligations" under, and as defined in, the Loan Agreement, Assignor hereby grants to Assignee a security interest, effective immediately, in all of Assignor's rights, title and interests in the United States and throughout the world in and to all of its now owned or existing and hereafter acquired or arising:

(i) trademarks, trademark registrations, tradenames, trademark applications and copyrights (including, without limitation, those listed on Schedule A attached hereto and made a part hereof), and renewals thereof, and all income,

royalties, damages and payments now and hereafter due and/or payable under all trademarks, trademark applications and copyrights, including, without limitation, damages and payments for past or future infringements thereof (all of the foregoing being hereinafter individually and/or collectively referred to as the "Trademarks");

(ii) patents and design patents and patent and design patent applications (including, without limitation, the patents and design patents and patent and design patent applications listed on Schedule B attached hereto and made a part hereof), and all reissues, continuations or divisions thereof, and all income, royalties, damages and payments now and hereafter due and/or payable under all or any of the foregoing, including, without limitation, damages and payments for past or future infringements thereof (all of the foregoing being hereinafter individually and/or collectively referred to as the "Patents");

(iii) any license agreement pursuant to which Assignor is or becomes licensed to use a patent or trademark ("Licenses"); and

(iv) the goodwill of Assignor's business connected with and symbolized by the Trademarks ("Goodwill").

The Trademarks, Patents, Licenses and Goodwill are hereinafter collectively referred to as the "Collateral".

3. Assignment of Patents and Trademarks. In addition to all other rights granted to Assignee under the Loan Agreement and this Agreement, Assignor further assigns, transfers and sets over to Assignee its entire right, title and interest in all Patents and Trademarks, provided, however, that such assignment shall not become effective until the occurrence of a default under the Loan Agreement.

4. Assignment of Licenses. In addition to all other rights granted to Assignee under the Loan Agreement and this Agreement, Assignor further assigns, transfers and sets over to Assignee any right of Assignor under any license agreement with any other party, whether Assignor is a licensor or licensee under any such license agreement, and the rignt to prepare for sale, sell and advertise for sale, all "Inventory" (as defined in the Uniform Commercial Code of the Commonwealth of Massachusetts) now or hereafter owned by Assignor and now or hereafter covered by such license, provided, however, that such assignment shall not become effective until the occurrence of a default under the Loan Agreement. Assignor hereby covenants that it will immediately notify Assignee if any Trademark or Patent shall at any time

hereafter become subject to any license agreement and that it will promptly provide Assignee with full identification thereof and with such further documentation as Assignee may reasonably request to accomplish or assure the accomplishment of the purposes of this Paragraph 4.

5. Royalties; Terms. Assignor hereby agrees that the use by Assignee of all Trademarks, Patents and Licenses as described above shall be by an unlimited and unrestricted grant by the Assignor in favor of the Assignee and without any liability for royalties or other related charges from Assignee to Assignor. The term of the assignments granted herein shall extend until the expiration, if any, of each of the respective Trademarks, Patents and Licenses assigned hereunder, or until the Obligations under, and as defined in, the Loan Agreement, have been discharged in full, whichever first occurs.

6. Reports of Applications. The Trademarks and Licenses listed on Schedule A include all of the Trademarks now owned by Assignor. The Patents and Licenses listed on Schedule B include all of the Patents now owned by Assignor. Assignor shall provide Assignee quarterly with a list of all new applications for Trademarks, Patents and Licenses and a list of the issuance of any registered Trademarks, Patents and Licenses, all of which shall be subject to the terms and conditions of this Agreement.

7. Agreements, Representations and Covenants of Assignor With Respect to Collateral.

(A) The Collateral has been duly and properly filed and issued (except for common law trademarks listed on Schedule A) and is valid, subsisting and enforceable.

(B) Assignor shall not take any action, nor permit any action to be taken by others subject to Assignor's control, including licensees, or fail to take any action or permit any others subject to Assignor's control to fail to take any action, which would affect the validity, grant and enforceability of the Collateral herein.

(C) Subject to this Agreement, Assignor shall assume and continue, at its own cost and expense, through counsel of its own choice who is acceptable to Assignee, full and complete responsibility for the reasonable prosecution of any infringement of or other encroachment upon the Collateral and otherwise reasonably defend and assure the grant, validity and enforceability of the Collateral, whether by judicial or nonjudicial means. Upon the occurrence of a default under the Loan Agreement, in order to effectuate the rights and remedies of Assignee hereunder, Assignor hereby irrevocably appoints Assignee

attorney-in-fact for Assignor in the name of Assignor or Assignee, with full power of substitution, to sign, execute and deliver any and all instruments and documents and do all acts and things to the same extent as Assignor could do, to sell, assign and transfer any or all of Assignor's rights, title and interests in the Collateral.

(D) Assignor shall promptly notify Assignee, in writing, of any suit, action or proceeding brought against Assignor or any other person relating to, concerned with, or affecting the Collateral and shall, on request, deliver to Assignee a copy of all pleadings, papers, orders or decrees theretofore and thereafter filed in any such suit, action or proceeding, and shall keep Assignee fully advised in writing of the progress of any such suit. Assignor further covenants that Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to the Collateral and that Assignor will testify as to the same in any litigation, hearing or proceeding related thereto and will promptly execute to Assignee affidavits required to record, apply for, obtain, maintain, issue and enforce any of the Collateral and/or this assignment thereof and will do such other acts as may be necessary or desirable to carry out the purposes of this Agreement.

(E) In the event of any infringement of the Collateral by others known or brought to the attention of Assignor, which is material or otherwise of such a nature that it is materially detrimental to the normal conduct of the business or profits of Assignor and/or its affiliates, then Assignor shall promptly notify Assignee in writing of such infringement and the full nature, extent, evidence and facts of such infringement known to Assignor. Assignor may have three months from such notice to Assignee to take action to stop such infringement. In the event that such infringement continues, Assignor shall bring and diligently and vigorously maintain a suit to stop such infringement until a decision is obtained from which no review or appeal can or has been taken.

(F) If requested by Assignee, Assignor shall, twice yearly, provide Assignee a complete status report of all Collateral. Upon request by Assignee, Assignor shall deliver to counsel for Assignee copies of any such Collateral and other documents concerned with or related to the prosecution, protection, maintenance, enforceability and issuance of the Collateral.

(G) Subject to any other express provision of this Agreement, upon the failure, neglect or refusal by Assignor to file, prosecute, defend, issue, maintain, enforce or otherwise

take action in respect to the Collateral, or to carry out any obligation or duty of Assignor under this Agreement, then Assignor hereby appoints and designates Assignee its sole attorney to take any such action as Assignee reasonably deems necessary under the circumstances, including, without limitation, the employment of counsel, and Assignor shall pay all fees and expenses, including attorneys' fees incurred by Assignee in connection with such action.

8. Effect on Loan Agreement. Assignor acknowledges and agrees that this Agreement is not intended to limit or restrict in any way the rights and remedies of Assignee under the Loan Agreement, but rather is intended to facilitate the exercise of such rights and remedies.

9. Binding Effect; Benefits. This Agreement shall be binding upon the Assignor and its respective successors and assigns, and shall enure to the benefit of Assignee, its nominees and assigns.

10. This Agreement may not be modified or terminated, in whole or in part, except in writing signed by an authorized representative of each of Assignee and Assignor.

11. If any provision of this Agreement shall be deemed invalid, it shall be considered independent of the other provisions of this Agreement, and, accordingly, such other provisions shall continue to be valid and enforceable.

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

Dorr Ventures, Inc.

By: _____

Title: _____

ATTEST:

_____

[CORPORATE SEAL]

BancBoston Financial Company

By: _____

Title: _____

SCHEDULE A

To

Patent, Trademark and License Assignment
dated as of April 30, 1987

Registered Trademarks

Applications for Registered Trademarks

Common Law Trademarks

Trademark Licenses

Registered Trademarks

And

Applications for Registered Trademarks

DORR-OLIVER INCORPORATED
REGISTERED TRADEMARK LIST

Note:

All trademarks are registered in the name of Dorr-Oliver Incorporated.

DORR-OLIVER, FS and FLUOSOLIDS will be licensed to Keeler/Dorr-Oliver where registered to protect fluid bed technology.

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
ARGENTINA	DORR-OLIVER	975160	04/24/90
ARGENTINA	OLIVER	820412	04/02/95
ARGENTINA	OLIVER-CAMPBELL	1187068	12/06/95
ARGENTINA	SWEETLAND	771286	07/26/93
AUSTRALIA	CABLETORQ	A270255	07/16/94
AUSTRALIA	DORR-OLIVER	A303598	01/07/98
AUSTRALIA	DORR-OLIVER	A303599	01/07/98
AUSTRALIA	FLUOSOLIDS	A98026	02/23/91
AUSTRALIA	RAPIFINE	A300726	09/24/97
BELGIUM	FS	96582	12/22/88
BENELUX	DETRITOR	003345	01/22/89
BENELUX	DORR	2927	01/19/90
BENELUX	DORR-OLIVER	2506	01/15/97
BENELUX	DORRCLONE	2250	01/19/93
BENELUX	DORRCO	3327	01/19/96

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
BENELUX	FLUOSOLIDS (BLOCK LETTERS)	076892	11/10/91
BENELUX	FLUOSOLIDS (SLANT LETTERS)	1198	01/19/89
BENELUX	FS DISPOSAL	956	01/19/89
BENELUX	MERCO AND DESIGN	002022	01/25/91
BENELUX	OXITRON	351248	03/14/88
BENELUX	WILFREY	2508	01/25/93
BOPHUTHATSWANA	FLUOSOLIDS (SPECIAL FORM)	33649	02/22/97
BRAZIL	CABLETORQ	006225063	01/10/96
BRAZIL	DORR	002904411	05/04/92
BRAZIL	DORR-OLIVER	006253261	03/10/96
BRAZIL	DORR-OLIVER	123206961	08/10/89
BRAZIL	OXITRON	123206870	02/10/89
BRAZIL	RAPIFINE	123207070	02/25/90
CALIFORNIA STATE REG	DORRCLONE	36695	11/08/89

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEVAL DATE
CANADA	AMERICAN	6817921	04/22/88
CANADA	CABLETORQ	203965	12/30/89
CANADA	DESANDER	25554834	07/26/87
CANADA	DORRCO	17939627	04/19/91
CANADA	FLOCCULATOR	25554835	07/26/87
CANADA	FLUOSOLIDS	NS11429	01/31/93
CANADA	FS	166155	11/14/99
CANADA	KELLY	6817923	04/22/88
CANADA	MERCO	NS1503	11/15/95
CANADA	MERCO & DESIGN	NS15138519	11/15/95
CANADA	MERCO & DEVICE	14232308	09/01/87
CANADA	OLIVITE	6918086	04/22/88
CANADA	RAPIFINE	235167	08/17/94
CANADA	SWEETLAND	6817922	04/22/88

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
CHILE	DORR-OLIVER	215748	06/23/88
DENMARK	CLARIFIL	246779	08/24/89
DENMARK	DORR-OLIVER	162360	07/16/90
FRANCE	CABLETORQ	1239971	07/01/93
FRANCE	DORR	492693	12/15/90
FRANCE	FILTRE AMERICAN	1304902	04/05/95
FRANCE	FILTRE KELLY	1304904	04/05/95
FRANCE	FILTRE OLIVER	1304901	04/05/95
FRANCE	FILTRE SWEETLAND	1304903	04/05/95
FRANCE	FLUOSOLIDS (BLOCK LETTERS)	1005166	01/04/97
FRANCE	FLUOSOLIDS (SLANT LETTERS)	1087065	02/19/89
FRANCE	FS	1073338	10/27/88
FRANCE	MERCO AND DESIGN	1141763	07/04/90
FRANCE	OLIVITE	1304900	04/05/95
GREAT BRITAIN	DETRITOR	501469	04/03/99
GREAT BRITAIN	DORR-OLIVER	1114092	05/10/00

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
GREAT BRITAIN	DORR-OLIVER	1114093	05/10/00
GREAT BRITAIN	DORR-OLIVER	B777906	05/21/93
GREAT BRITAIN	DORRCO	B511631	03/28/00
GREAT BRITAIN	DORRCO & DEVICE (DIAMOND)	B511630	03/28/00
GREAT BRITAIN	FLUOSOLIDS	703656	12/28/00
GREAT BRITAIN	FLUOSOLIDS (SLANT LETTERS)	677471	02/28/98
GREAT BRITAIN	MERCO AND DESIGN	691841	08/28/95
GREAT BRITAIN	MERCONE AND DESIGN	753383	05/01/91
GREAT BRITAIN	OLIVER	539434	02/25/89
GREAT BRITAIN	OXITRON	1091772	03/01/99
GREAT BRITAIN	SWEETLAND	B539435	02/25/89
GREECE	CABLETORQ	50914	07/27/93
INDIA	CLARIFLOCCULATOR	169522	06/16/90
INDIA	DETRITOR	137700	02/16/92
INDIA	DORR-OLIVER	SEC 28	To be determined.

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
INDIA	FLUOSOLIDS (SPECIAL TYPE)	140252	08/30/92
INDIA	FS	252806	11/14/89
INDIA	MERCO AND DESIGN	170272	08/03/90
INDIA	MERCONE	170271	08/03/90
INDIA	RAPIFINE	318871	09/22/90
INTERNATIONAL	DETRITOR	165770	12/10/92
INTERNATIONAL	DORR	147446	06/09/90
INTERNATIONAL	DORR-OLIVER	208541	03/28/98
INTERNATIONAL	DORRCLONE	168145	03/27/93
INTERNATIONAL	DORRCO	165769	12/10/92
INTERNATIONAL	DORRCO	324818	11/03/06
INTERNATIONAL	DORRCO & DEVICE (DIAMOND)	131797	07/18/07
INTERNATIONAL	OXITRON	44[illegible]305	09/13/98
INTERNATIONAL	WILFREY	169182	05/09/93

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
ITALY	CABLETORQ	290592	07/27/93
ITALY	FLUOSOLIDS	245719	05/31/89
ITALY	FLUOSOLIDS	279897	01/26/92
ITALY	FS	241912	11/26/88
JAMAICA	CABLETORQ	B15708	08/27/94
JAPAN	DORR-OLIVER	8638480	10/25/80
JAPAN	MERCO IN KATAKANA CHARACTERS	115795	10/31/86
JAPAN	MERCONE & DEVICE	4878976	07/20/76
JAPAN	CABLETORQ	1643413	09/26/93
JAPAN	DETRITOR	223736	01/09/91
JAPAN	DORRCO	186208	07/30/96
JAPAN	FLUOSOLIDS	434650	12/20/94
JAPAN	FS DISPOSAL	1285398	04/20/87
JAPAN	MERCO AND DESIGN	495458	10/31/96
JAPAN	OLIVER	458009	10/07/94

COUNTRY	MARK	REG. NO.	RENEWAL DATE
MEXICO	DOMEX	214519	01/24/88
MEXICO	DOMEX	215537	06/28/87
NETHERLANDS	FS DISPOSAL	170298	03/05/89
NORWAY	CLARIFIL	104400	02/14/90
NORWAY	DORR-OLIVER	54231	03/31/88
PAKISTAN	CLARIFLOCCULATOR	24020	06/21/92
PARAGUAY	DORR-OLIVER	81409	08/18/87
PARAGUAY	DORR-OLIVER	82130	10/19/87
PEOPLE'S REPUBLIC OF CHIN	DORR-OLIVER	228523	06/14/95
PEOPLE'S REPUBLIC OF CHIN	DORR-OLIVER	228524	06/14/95
PEOPLE'S REPUBLIC OF CHIN	DORR-OLIVER	228525	06/14/95
PEOPLE'S REPUBLIC OF CHIN	DORR-OLIVER	228526	06/14/95
PEOPLE'S REPUBLIC OF CHIN	DORR-OLIVER	228527	06/14/95
PEOPLE'S REPUBLIC OF CHIN	DORRCLONE	224012	04/14/95
PEOPLE'S REPUBLIC OF CHIN	DSM	225223	04/29/95
PEOPLE'S REPUBLIC OF CHIN	MERCO	224011	04/14/95

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
PHILIPPINES	DORR-OLIVER	28745	12/29/00
SPAIN	CABLETORQ	721431	01/07/96
SPAIN	DORR-OLIVER	337575	01/09/99
SPAIN	DORR-OLIVER	337576	01/09/99
SPAIN	DORR-OLIVER	337577	01/09/99
SPAIN	DORRCO	544016	10/15/93
SPAIN	FLUOSOLIDS	226347	10/20/90
SPAIN	FS	575824	01/24/92
SWEDEN	CLARIFIL	166546	02/16/89
SWEDEN	DORR	60609	12/14/95
SWEDEN	DORRCO	31004	04/06/96
SWITZERLAND	FS	243139	12/05/88
TRANSKEI	FLUOSOLIDS (SPECIAL FORM)	33649	02/22/97
UNION OF SOUTH AFRICA	DORRCO	47926	04/21/88
UNION OF SOUTH AFRICA	FLUOSOLIDS (SPECIAL FORM)	33649	02/22/97
UNION OF SOUTH AFRICA	FS	B685269	11/12/88

COUNTRY	MARK	REG. NO.	RENEWAL DATE
UNION OF SOUTH AFRICA	OXITRON	781033	03/02/88
UNITED STATES	AMERICAN	542898	05/29/91
UNITED STATES	CABLETORQ	975893	01/01/94
UNITED STATES	CLARIFLOCCULATOR	390978	10/14/01
UNITED STATES	CLARIGESTER	356487	04/26/98
UNITED STATES	D-O	644166	04/16/97
UNITED STATES	DENSLUDGE	622122	02/28/96
UNITED STATES	DETRITOR	248626	10/23/88
UNITED STATES	DORR	527664	07/18/90
UNITED STATES	DORR THICKENER	534552	12/21/90
UNITED STATES	DORR-OLIVER	664376	07/15/88
UNITED STATES	DORR-OLIVER	664411	07/13/08
UNITED STATES	DORR-OLIVER	676708	04/07/09
UNITED STATES	DORRCLONE	563045	08/19/92
UNITED STATES	DORRCO	534973	12/19/90
UNITED STATES	DORRCO	602728	03/01/95

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
UNITED STATES	DOXIE	779022	10/27/04
UNITED STATES	DSM	659021	03/04/98
UNITED STATES	EAVF	1270664	03/20/04
UNITED STATES	FLOCCULATOR	295572	07/05/92
UNITED STATES	FLUOSOLIDS (BLOCK LETTERS)	601656	02/01/95
UNITED STATES	FLUOSOLIDS (SLANTED LETTERS)	428712	04/01/87
UNITED STATES	FS	834735	09/05/87
UNITED STATES	HYDRO-TREATOR	395578	06/02/02
UNITED STATES	KELLY	529802	08/29/90
UNITED STATES	MERCO	894997	07/21/90
UNITED STATES	MERCO AND DESIGN	895000	07/21/90
UNITED STATES	MERCO BOWL	784374	02/02/05
UNITED STATES	MERCONE AND DEVICE	599937	12/28/94
UNITED STATES	MONORAKE	332009	01/28/96
UNITED STATES	ODS	744737	02/05/03

REEL 4725 FRAME 186

REEL 0581 FRAME 400

TRADE-MARK

DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
UNITED STATES	OLIVER	527189	07/04/90
UNITED STATES	OLIVER-CAMPBELL	529803	08/29/90
UNITED STATES	OLIVITE	523881	04/11/90
UNITED STATES	OXITRON	1363199	10/01/05
UNITED STATES	RAPIDORR	641363	02/12/97
UNITED STATES	RAPIFINE	889347	04/14/90
UNITED STATES	SWEETLAND	527190	07/04/90
URUGUAY	DORR-OLIVER	151373	11/24/88
VENDA	FLUOSOLIDS (SPECIAL FORM)	33649	02/22/97
VENEZUELA	DORR-OLIVER	36213F	01/16/89
VENEZUELA	RAPIFINE	90199	03/27/94
WEST GERMANY	CABLETORQ	925541	07/12/93
WEST GERMANY	DORR-OLIVER FS DISPOSAL SYSTEM	871488	12/19/88
WEST GERMANY	KELLY	450928	09/16/92
ZIMBABWE RHODESIA	DORRCO & DEVICE (DIAMOND)	5431	04/27/87

KEELER/DORR-OLIVER TRADEMARKS

KEELER/DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
AUSTRALIA	FLUOSOLIDS	A98026	02/23/91
BELGIUM	FS	96582	12/22/88
BENELUX	FLUOSOLIDS (BLOCK LETTERS)	076892	11/10/91
BENELUX	FLUOSOLIDS (SLANT LETTERS)	1198	01/19/89
BENELUX	FS DISPOSAL	956	01/19/89
CANADA	FLUOSOLIDS	NS11429	01/31/93
CANADA	FS	166155	11/14/99
FRANCE	FLUOSOLIDS (BLOCK LETTERS)	1005166	01/04/87
FRANCE	FLUOSOLIDS (SLANT LETTERS)	1087065	02/19/89
FRANCE	FS	1073338	10/27/88
GREAT BRITAIN	FLUOSOLIDS	703656	12/28/86
GREAT BRITAIN	FLUOSOLIDS (SLANT LETTERS)	677471	02/28/98
INDIA	FLUOSOLIDS (SPECIAL TYPE)	140252	08/30/92
INDIA	FS	252806	11/14/89

RECORDED: 04/25/2001 REEL 4725 FRAME 0191

TRADE-MARK

RECORDED: 04/25/2001 REEL 0581 FRAME 0403

KEELER/DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
ITALY	FLUOSOLIDS	279897	01/26/92
ITALY	FLUOSOLIDS	245719	05/31/89
ITALY	FS	241912	11/26/88
JAPAN	FLUOSOLIDS	434650	12/20/94
JAPAN	FS DISPOSAL	1285398	04/20/87
NETHERLANDS	FS DISPOSAL	170298	03/05/89
NORWAY	FLUOSOLIDS	41186	01/16/92
NORWAY	FS	77170	08/21/89
SPAIN	FLUOSOLIDS	226347 TAX DUE	10/20/90 10/20/90
SPAIN	FS	575824 TAX DUE	01/24/92 01/24/87
SWITZERLAND	FS	243139	12/05/88
UNION OF SOUTH AFRICA	FLUOSOLIDS (SPECIAL FORM)	33649	02/22/87
UNION OF SOUTH AFRICA	FS	B685269	11/12/88

KEELER/DORR-OLIVER TRADEMARKS

COUNTRY	MARK	REG. NO.	RENEWAL DATE
UNITED STATES	FLUOSOLIDS (BLOCK LETTERS)	601656	02/01/95
UNITED STATES	FLUOSOLIDS (SLANTED LETTERS)	428712	04/01/87
UNITED STATES	FS	834735	09/05/87
WEST GERMANY	DORR-OLIVER FS DISPOSAL SYSTEM	871488	12/19/88

Common Law Trademarks

DORR-OLIVER INCORPORATED AND
KEELER/DORR-OLIVER UNREGISTERED
TRADEMARKS AND TRADENAMES

(1) Tradename:

DORR-OLIVER
DORCAN
D-O
FABER
DOBV
D-O GMBH
HDO
KEELER/DORR-OLIVER

(2) Unregistered Trademarks:

Anitron	Hi-Rate	Perifilter	
Bantam	Hydroscillator	PreTreator	
Clamshell	HydroSeparator	RapiFloc	
Clarifil	HydroSizer	RapiSluice	
Clayjector	HydroVibrator	RSR	
Dyna Floc	MARS	Rigidbelt	
DynoMix	Methodset	Rollerbelt	
D-O (Gen.	Mercone	SelecDigest	
Equip.)	Olivex	Sifeed	
FluoSeal	PEP	SiphonSizer	
FluoDry	Peak Performer	SpiroVortex	
		Squarex	

rademark Licenses

LICENSE AGREEMENTS (KEELER/DORR-OLIVER BOILER CO.)

COMPANY	DATE OF EXPIRATION	CODE	ASSIGNMENT RESTRICTION
Curtiss-Wright Corp. One Passaic Street Wood-Ridge, N.J.	Indefinite	(2)(5)	No
Greshams (Eastern) Ltd. 4 West Wharf Khawja House Karachi, Pakistan	Jan. 1, 1990, extendible for an additional five (5) year period	(1)(4)	No
Hindustan Dorr-Oliver Ltd. Dorr-Oliver House Chakala, Andheri (East) Bombay 400099 India	July 9, 1990, extendible subject to Government Approval	(1)(4)	Yes
Omnium Traitements et de Valorisation Le Doublon 11 Avenue Dubounet 92407 Courbevoie Cedex France	July 21, 1992 and thereafter automatically extended for successive one (1) year periods	(1)(4)	Yes
Snamprogetti Italy	Indefinite	(1)(4)	No
U.S. Department of Energy GC-42 (FORSTL) MS-6F-067 1000 Independence Ave., SW Washington, D.C. 20585 [Contract No. DE-AC21/76 ET 10417]	Life of Patents	(2)(4)(5)	Yes

cc: Mr. Robert J. Fisher
Assistant Chief
Office of Patent Counsel
U.S. Department of Energy
Chicago Operations Office
Argonne, Illinois 60439

Code Identification

(1) - License of KDO Technology
(2) - Cross License of Technology
(3) - License to use third party Technology
(4) - Exclusive License
(5) - Non-exclusive License

ROYALTY, KNOW-HOW AND LICENSE AGREEMENTS
DORR-OLIVER INCORPORATED - LSS BUSINESS

COMPANY	DATE OF EXPIRATION	CODE	ASSIGNMENT RESTRICTION
Alcan International (1975 Limited) 1 Place Ville Marie Montreal, Quebec CANADA	Life of patents	(3)(5)	Yes
ALKO Limited P.O. Box 350 00101 Helsinki 10 FINLAND	June 18, 1986 extendible for additional (3) three year periods	(2)(4)	No
AMCOR Ltd. South Gate South Melbourne State of Victoria AUSTRALIA	Indefinite	(3)(5)	Yes
E. L. Bateman, Ltd. Founders Building [illegible]rtlett Road [illegible]. Box 565 Boksburg North 1460 REPUBLIC OF SOUTH AFRICA	January 1, 1990	(1)(4) (6)(7)	Yes
Bellmer G.m.B.H. & Co. KG Postfach 1369 D-7532 Niefern 1, GERMANY	December 1, 1990 extendible for additional two (2) year periods	(3)(4) (6)	Yes
Carborundum Environmental Systems Canada Ltd. 2345 Stansfield Road Mississauga, Ontario L4Y 3Y3 CANADA	April 22, 1995 extendible for additional five (5) year periods	(3)(5) (6)	Yes
Ecolotrol, Inc. Bethpage, Long Island NEW YORK	Life of patents	(3)(5) (7)	Yes
Equipos y Procesos, S.A. Conde de Penalver, 45-3° 28006 Madrid SPAIN	Indefinite	(1)(4) (6)(7)	Yes

kt AB ckla Alle 13, cka, Stockholm, SWEDEN	June 18, 1994	(2)(4)	Yes
A. B. Hedemora Verkstader Hedemora S-77600 SWEDEN	Terminated - Royalty obligation ceases Dec. 31, 1990	(1)(4) (6)(7)	Yes
L'Office Cherifine des Phosphates ("OCP") Angle Route D'El Jadida Et Boulevard de la Grande Ceinture Casablanca, MOROCCO	November 30, 2003	(1)(4) (6)(7)	Yes
P. T. Boma Stork Jalan Laut 18-20 Pasuruan, INDONESIA	August 1, 1991	(1)(4) (6)(7)	Yes
Lusodorre Lda. Lisbon, PORTUGAL	Indefinite	(1)(4) (6)(7)	Yes
Moller & Jochumsen A/S jlevej 3-5 orsted DK-8700 Horsens DENMARK	Indefinite	(1)(4) (6)(7)	Yes
G. Neidl Furst Johannes Strasse Furstentum LIECHTENSTEIN	Indefinite	(3)(4) (6)	Yes
Omnium Traitements de Valorisation Le Doublon 11, Avenue Dubonnet 92407 Courbevoie Cedex Paris, FRANCE	Indefinite	(1)(4) (6)(7)	Yes
Christian Queroix 20 Av de Conde F 78600 Maisons Laffitte FRANCE	November 23, 1989 extendible for additional five (5) year periods	(3)(4)	No
Retec Ltd. Paringa Road, Gibson Island, arrie, Queensland USTRALIA	July 31, 1991 Extendible	(3)(5) (6)	Yes

REEL 4725 FRAME 199

REEL 0581 FRAME 411

TRADE-MARK

Engineering Co., Ltd. hin Building Yurakucho, 1-Chome iyoda-ku okyo 100, JAPAN	January 23, 1988	(1)(4) (6)(7)	Yes
Soken Chemical Engineering Company Ltd. 49-5, 3-Chome, Takada, Toshima - Ku, Tokyo, 171 JAPAN	October 10, 1996 extendible by consent	(3)(4) (6)	Yes
Stamicarbon BV P.O. Box 536160 AB Geleen, THE NETHERLANDS	December 31, 1987	(3)(4)	Yes
Taiwan Machinery Manufacturing Corporation P.O. Box 30 Kaohsiung, TAIWAN	Indefinite	(1)(4) (6)(7)	Yes
Uhde G.m.B.H.	June 10, 1987 automatically renewed for one (1) year periods	(3)(5) (6)	Yes
R. Wilfley & Sons, Inc. P.O. Box 2330 Denver, COLORADO 80201 USA	Indefinite	(3)(4) (6)	Yes

Code Identification

(1) - License of Dorr-Oliver Technology
(2) - Cross License of Technology
(3) - License to use third party Technology
(4) - Exclusive License
(5) - Non-exclusive License
(6) - Territorial Restriction
(7) - Royalty to Dorr-Oliver

DRAFT #8

TRADEMARK LICENSE AGREEMENT

THIS AGREEMENT, effective April , 1987, is between Dorr-Oliver Incorporated, a corporation of the State of Delaware, with a place of business at 77 Havemeyer Lane, Stamford, Connecticut 06904 (hereinafter "LICENSOR"), and W. R. Grace & Co., a corporation of the State of Connecticut, with a place of business at 1114 Avenue of the Americas, New York, New York 10036 (hereinafter "LICENSEE").

WHEREAS, LICENSOR is the owner of the tradename "Dorr-Oliver" in various countries, either as a registered trademark or unregistered trademark for a wide variety of products, together with the goodwill associated with this trademark;

WHEREAS, pursuant to an Acquisition Agreement of even date, LICENSEE is acquiring from LICENSOR the Membrane Ventures Unit of LICENSOR as well as certain trademarks and goodwill associated therewith; and

WHEREAS, LICENSEE is not acquiring title to the tradename or trademark DORR-OLIVER in connection with the aforesaid acquisition but wishes to be able to use such tradename and trademark for a limited period of time in connection with its further operation of the business of the Membrane Ventures Unit, and LICENSOR is willing to allow such usage on the terms and conditions hereafter set forth;

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, it is agreed that:

1. DEFINITIONS

a. The term "THE MARK" as used herein shall mean the trademark "DORR-OLIVER".

b. The term "TRADENAME" as used herein shall mean the tradename "DORR-OLIVER".

c. The term "THE TERRITORY" as used herein shall mean all the countries of the world.

d. The term "PRODUCT" as used herein shall mean only ultrafiltration membranes, membrane separation equipment and systems presently manufactured and sold by Dorr-Oliver Inc. Membrane Ventures Unit.

e. The term "LICENSED FIELD" as used herein shall mean the conduct of the business of manufacturing, marketing and selling the PRODUCT.

f. The term "EFFECTIVE DATE" as used herein shall mean the date agreed upon by LICENSOR and LICENSEE and expressed in the first paragraph of this Agreement.

g. The term "AFFILIATE" as used herein shall mean, as to any person, any corporation, partnership, other person or other entity controlling, controlled by or under common control with LICENSEE. The term "control" means either (a) holding more than 50% of the voting power of the outstanding securities of an issuer, or (b) having a contractual power to designate a majority of directors of a corporation, or, in the case of unincorporated entity, of persons exercising similar functions.

II. LICENSE GRANT

a. For good and valuable consideration, the receipt of which is hereby acknowledged, LICENSOR hereby grants to LICENSEE an exclusive license to use the TRADENAME in the LICENSED FIELD and THE MARK as a trademark in connection with the manufacture, marketing, advertising and sale of PRODUCT in THE TERRITORY, as long as LICENSEE shall comply with the terms of this Agreement. LICENSOR retains the exclusive right to use THE MARK in connection with all goods other than the PRODUCT and the TRADENAME in businesses other than in the LICENSED FIELD.

b. LICENSEE shall have the right to grant sublicenses to use the TRADENAME and TRADEMARK in the LICENSED FIELD and on the PRODUCT for a period up to three (3) years from the Effective Date to an AFFILIATE provided such AFFILIATE agrees in writing to assume the obligations and conditions of this Agreement and further provided that such sublicense is prior approved in writing by LICENSOR. LICENSOR's approval shall not be unreasonably withheld.

III. DURATION OF LICENSE

The license grant provisions of this Agreement shall remain in force for three (3) years from the EFFECTIVE DATE, unless terminated by either party in accordance with the terms of this Agreement.

REEL 4725 FRAME 203

REC 0581 FRAME 15

TRADEMARK

IV. TERMINATION

a. LICENSEE may terminate its right to use THE MARK and/or TRADENAME at any time prior to the expiration date of this Agreement upon thirty (30) days written notice to LICENSOR.

b. LICENSOR may terminate its grant of license under this Agreement in the event that LICENSEE breaches any of its obligations under this Agreement. LICENSOR's termination of the grant of license under this Article IV(b) shall be effective as of LICENSOR's giving written notice to LICENSEE of such termination provided LICENSEE has not commenced to remedy such breach within sixty (60) days of the date of mailing such notice as provided for in Article XII.

c. LICENSOR may immediately terminate the license grant provision of this Agreement if LICENSEE assigns, transfers or sublicenses this Agreement or any of its rights or obligations hereunder except as provided for in Article II(b).

d. In the event of LICENSOR's termination of LICENSEE's right to use THE MARK or at the expiration of this Agreement, LICENSEE shall immediately cease all such use of THE MARK, including, but not limited to, use of THE MARK in conjunction with the advertising and sale of PRODUCT in THE TERRITORY and use of any trademark that is similar to THE MARK.

V. OWNERSHIP OF THE MARK

a. LICENSEE acknowledges LICENSOR's exclusive right, title and interest in and to the TRADENAME and THE MARK and the

goodwill associated with THE MARK. LICENSEE shall not represent in any manner that it has ownership in TRADENAME and THE MARK. LICENSEE acknowledges that use of the TRADENAME and THE MARK shall not create any rights, title or interest in LICENSEE (except as set forth in this Agreement), but that all such uses by LICENSEE shall inure to the sole benefit of LICENSOR.

b. Any new use of THE MARK on advertising materials, containers, labels, graphic designs, product brochures, technical data sheets, or other material distributed in connection with PRODUCT shall be promptly submitted by LICENSEE to LICENSOR.

c. The PRODUCT as manufactured by LICENSEE which bears THE MARK shall be manufactured, packaged, labeled, and sold in accordance with all applicable laws and regulations within THE TERRITORY. LICENSOR's approval of a PRODUCT sample shall not be construed to mean that LICENSOR has determined that the PRODUCT sample conforms to the laws and regulations within THE TERRITORY.

d. LICENSEE shall display THE MARK only in accordance with the laws and regulations that are applicable within THE TERRITORY.

e. LICENSEE agrees that LICENSOR shall have the right throughout the term of this Agreement, to ascertain that LICENSEE is complying with the provisions of this Agreement. LICENSEE shall upon reasonable prior written notice to LICENSEE provide LICENSOR or its authorized representatives

with access to LICENSEE's relevant premises and operations, during normal business hours, for the purpose of inspection and sample gathering reasonably necessary to ascertain proper compliance with this Agreement.

f. The parties hereto agree to execute such documents and consents and to take such other action as may be necessary to register this Agreement or LICENSEE in respect of this Agreement, with the appropriate governmental authorities within THE TERRITORY. Any costs directly or indirectly associated with such a request by LICENSOR shall be borne by LICENSEE.

VII. DISCLAIMER OF WARRANTIES

LICENSOR warrants that to the best of its belief, it owns THE MARK and that it does not know of anyone with superior rights to THE MARK. LICENSOR does not warrant that it has exclusive title to THE MARK in THE TERRITORY and represents only that it is granting LICENSEE rights to the extent that LICENSOR owns such rights in THE TERRITORY.

VIII. INFRINGEMENTS

a. LICENSEE shall notify LICENSOR in the event that LICENSEE learns of any significant apparent infringement of THE MARK.

b. LICENSOR may at its sole option elect to bring an action against any significant apparent infringement of THE MARK. In the event that LICENSOR elects not to bring such an action, it may notify LICENSEE and permit LICENSEE to bring an action at LICENSEE's option and expense. Any proceeds which either party receives by virtue of a successful action

against or settlement with an apparent infringer shall be divided between LICENSOR and LICENSEE in the same proportion as each of them bore during the cost of any such action.

IX. ASSIGNMENT/SUB-LICENSE

LICENSEE shall not assign, transfer, or sub-license this Agreement or any of its rights or obligations hereunder except as provided for in Article II(b). LICENSOR may assign or sub-license this Agreement or any of its rights or obligations hereunder. If LICENSOR assigns, transfers, or sub-licenses its rights, and obligations under this Agreement, it will use its best efforts to inform LICENSEE as far in advance as possible of any such assignment, transfer or sub-license.

X. PRODUCT LIABILITY AND INDEMNIFICATION

a. LICENSOR assumes no liability to LICENSEE or third parties with respect to PRODUCT as manufactured sold or distributed by LICENSEE. Subject to the terms of the Acquisition Agreement, LICENSEE agrees to indemnify and hold LICENSOR harmless against any and all claims, liabilities, losses, expenses and fees, including without limitation, reasonable attorneys' fees, including without limitation, reasonable attorneys' fees, amounts of judgment and/or amounts paid in settlement or costs incurred by LICENSOR and arising out of or attributable to the advertising, manufacture, distribution or sale of PRODUCT by LICENSEE in THE TERRITORY.

b. LICENSOR shall have no responsibility for any late delivery or any failure of LICENSEE to ship, or in general, any other matter having to do with the supply or delivery of PRODUCT.

c. Notwithstanding any other event that may terminate this Agreement, the rights and obligation as defined in this Section XI shall survive this Agreement.

XI. MODIFICATION/WAIVER

a. This Agreement may be modified only in a writing signed by both LICENSOR and LICENSEE. Either LICENSOR's or LICENSEE's failure to enforce any of the provisions of this Agreement shall not constitute a waiver of its rights to later enforce such terms or conditions.

b. Any waiver under this Agreement must be in writing signed by the party to be charged therewith.

XII. NOTICE

a. Any notice given under this Agreement shall be in writing by registered or certified mail, sent to the other party at the address set forth below:

LICENSOR: DORR-OLIVER INCORPORATED
P.O. Box 9312
77 Havemeyer Lane
Stamford, Connecticut 06904

LICENSEE: (a) Amicon Division
W. R. Grace & Co.
24 Cherry Hill Drive
Danvers, MA 01923

With copy to: (b) W. R. Grace & Co.
1114 Avenue of the Americas
New York, New York 10036
Attention: Secretary

XIII. GOVERNING LAW

This Agreement shall be construed under the laws of the State of Connecticut except that any controversy brought in connection with THE MARK shall be resolved in accordance with the laws of the country within THE TERRITORY where the controversy originates.

XIV. ENTIRE AGREEMENT

This Agreement expresses the entire understanding between the parties with respect to its subject matter and any prior or contemporaneous negotiations, discussions or agreements are hereby superseded.

IN WITNESS WHEREOF, the parties have signed this Agreement through their duly authorized representative, as of the date first hereinabove written.

DORR-OLIVER INCORPORATED	W. R. GRACE & CO.
By: _____ (Signature)	By: _____ (Signature)
Name: _____	Name: _____
Title: _____	Title: _____

SCHEDULE B

To

Patent, Trademark and License Assignment
dated as of April 30, 1987

Patents

Design Patents

Applications for Patents

Applications for Design Patents

Patent Licenses

Patents

And

Patent Applications

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1976	ARGENTINA	BS	217927				96-04/30	Flow Distributor for Fluid Bed Biological Reactor
1986	ARGENTINA	IP	224434				96-11/30	Desilication in Alkaline Pulp Processess
2012	ARGENTINA	FL			296742	84-05/23		Vacuum Expressor Device for a Rotary Drum Filter
2041	ARGENTINA	FL			299947	85-04/02		Pressure Filter
1961	ARGENTINA	CE	212385				91-06/30	Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chamba
1967	ARGENTINA	CE	217149				96-04/30	Multiple Hydrocyclone Device
1945	AUSTRALIA	FL	504859				93-05/26	System & Method for Electric Dewatering of Solids Suspen.
1958	AUSTRALIA	TP	522375				94-05/24	Aspirating Feed Funnel for Fluidized Reactor
1976	AUSTRALIA	BS	524490				95-05/01	Flow Distributor for Fluid Bed Biological Reactor
1978	AUSTRALIA	EK	530986				95-02/09	Electrically Augmented Vacuum Filtration
1981	AUSTRALIA	SE	527773				95-09/21	Flocculant Distributor Means for Feedwell
1988	AUSTRALIA	FL	544093				97-03/30	Drainage Deck Assembly for Rotary Vacuum Drum Filter
1993	AUSTRALIA	TP	539738				97-06/26	Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrb. & Hopper
2001	AUSTRALIA	EK			10097982	82-03/01		Electrode Assembly with Ion Exchange Membrane
2003	AUSTRALIA	EK			10076882	82-02/24		Solid Polymeric Electrolyte
2004	AUSTRALIA	BS	549570				98-05/08	Integral Flow Circulator for Fluid Bed Reactor
2008	AUSTRALIA	CD			1399783	83-04/27		Fluidized Bed Boilers
2009	AUSTRALIA	SE			1291283	83-03/28		Flotation Separation Apperatus and Method
2012	AUSTRALIA	FL			2852984	84-05/23		Vacuum Expressor Device for a Rotary Drum Filter
2018	AUSTRALIA	EK			5647286	86-04/22		High Flow Electrofiltration
2020	AUSTRALIA	EK			5077185	85-12/04		Electrofilter Using an Improved Electrode Assembly
2022	AUSTRALIA	FL			4024785	85-03/22		Filtrate Discharge System Filter
2023	AUSTRALIA	TP			6129385	85-04/16		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
2026	AUSTRALIA	EK			5631186	86-04/17		Non Ion Selective Membrane in an EAVF System
2028	AUSTRALIA	EK			5680786	86-04/29		Method and Apperatus for Electrofiltration
2034	AUSTRALIA	EK			6180886	86-08/25		Method & Apperatus for discharging Coke formed on an Electrode Structure
2040	AUSTRALIA	FL			3844885			Horizontal Tray Belt Filter
2041	AUSTRALIA	FL			4024885	85-03/22		Pressure Filter
2042	AUSTRALIA	BS			6743287	87-01/08		Membrane Cell Culturing Device
2023	AUSTRIA	TP			A102685	85-04/04		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1942	VENEZ.	TP	36480				88-05/15	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	VENEZ.	TP			102876			Heat Exchanger for Fluid Bed Reactor
1986	VENEZ.	IP			215880	80-12/05		Desilication in Alkaline Pulp Processess
2012	VENEZ.	FL			78284			Vacuum Expressor Device for a Rotary Drum Filter
1942	W.GERMANY	TP			7614920			Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	W.GERMANY	TP			7619917			Heat Exchanger for Fluid Bed Reactor
1945	W.GERMANY	FL			P2727604224			System & Method for Electric Dewatering of Solids Suspen.
1946	W.GERMANY	CE			P26416160			Nozzle Type Centrifuge
1953	W.GERMANY	TP			280026			Slds.Dischg.System w/Cooling means for Pressurized bed reacts.
1953	W.GERMANY	TP			780017			Slds.Dischg.System w/Cooling means for Pressurized bed reacts.
1955	W.GERMANY	KD			2756837			Fluidized Bed Process Heater
1955	W.GERMANY	KD			7738835			Fluidized Bed Process Heater
1961	W.GERMANY	CE			P27580478			Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chamba
1967	W.GERMANY	CE			P29532603			Multiple Hydrocyclone Device
1973	W.GERMANY	TP			285160			Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1976	W.GERMANY	BS			P29206642			Flow Distributor for Fluid Bed Biological Reactor
1978	W.GERMANY	EK			P29152441	79-04/14		Electrically Augmented Vacuum Filtration
1980	W.GERMANY	BS			P29344830			Apparatus for Dissolution of Gases in Liquid
1993	W.GERMANY	TP			P31250300	81-06/26		Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrib. & Hopper
1993	W.GERMANY	TP			8118568			Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrib. & Hopper
2008	W.GERMANY	KD			P33151350	83-04/27		Fluidized Bed Boilers
2025	W.GERMANY	BS			P36274038	86-08/13		Method for Sulfide Toxicity Reduction
2040	W.GERMANY	FL			P34041109			Horizontal Tray Belt Filter
2009	ZAMBIA	SE	2583					Flotation Separation Apperatus and Method

Design Patents

And

Applications for Design Patents

(None)

Patent Licenses

LICENSE AGREEMENTS (KEELER/DORR-OLIVER BOILER CO.)

COMPANY	DATE OF EXPIRATION	CODE	ASSIGNMENT RESTRICTION
Curtiss-Wright Corp. One Passaic Street Wood-Ridge, N.J.	Indefinite	(2)(5)	No
Greshams (Eastern) Ltd. 4 West Wharf Khawja House Karachi, Pakistan	Jan. 1, 1990, extendible for an additional five (5) year period	(1)(4)	No
Hindustan Dorr-Oliver Ltd. Dorr-Oliver House Chakala, Andheri (East) Bombay 400099 India	July 9, 1990, extendible subject to Government Approval	(1)(4)	Yes
Omnium Traitements et de Valorisation Le Doublon 11 Avenue Dubounet 92407 Courbevoie Cedex France	July 21, 1992 and thereafter automatically extended for successive one (1) year periods	(1)(4)	Yes
Snamprogetti Italy	Indefinite	(1)(4)	No
U.S. Department of Energy GC-42 (FORSTL) MS-6F-067 1000 Independence Ave., SW Washington, D.C. 20585 [Contract No. DE-AC21/76 ET 10417]	Life of Patents	(2)(4)(5)	Yes

cc: Mr. Robert J. Fisher
Assistant Chief
Office of Patent Counsel
U.S. Department of Energy
Chicago Operations Office
Argonne, Illinois 60439

Code Identification

(1) - License of KDO Technology
(2) - Cross License of Technology
(3) - License to use third party Technology
(4) - Exclusive License
(5) - Non-exclusive License

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ROYALTY, KNOW-HOW AND LICENSE AGREEMENTS
DORR-OLIVER INCORPORATED - LSS BUSINESS

COMPANY	DATE OF EXPIRATION	CODE	ASSIGNMENT RESTRICTION
Alcan International (1975 Limited) 1 Place Ville Marie Montreal, Quebec CANADA	Life of patents	(3)(5)	Yes
ALKO Limited P.O. Box 350 00101 Helsinki 10 FINLAND	June 18, 1986 extendible for additional (3) three year periods	(2)(4)	No
AMCOR Ltd. South Gate South Melbourne State of Victoria AUSTRALIA	Indefinite	(3)(5)	Yes
E. L. Bateman, Ltd. Founders Building [illegible]rtlett Road [illegible]. Box 565 Boksburg North 1460 REPUBLIC OF SOUTH AFRICA	January 1, 1990	(1)(4) (6)(7)	Yes
Bellmer G.m.B.H. & Co. KG Postfach 1369 D-7532 Niefern 1, GERMANY	December 1, 1990 extendible for additional two (2) year periods	(3)(4) (6)	Yes
Carborundum Environmental Systems Canada Ltd. 2345 Stansfield Road Mississauga, Ontario L4Y 3Y3 CANADA	April 22, 1995 extendible for additional five (5) year periods	(3)(5) (6)	Yes
Ecolotrol, Inc. Bethpage, Long Island NEW YORK	Life of patents	(3)(5) (7)	Yes
Equipos y Procesos, S.A. Conde de Penalver, 45-3° 28006 Madrid SPAIN	Indefinite	(1)(4) (6)(7)	Yes

REEL 4725 FRAME 230

REEL 0581 FRAME 418

TRADE-MARK

Flakt AB [illegible]ckla Alle 13, [illegible]cka, Stockholm, SWEDEN	June 18, 1994	(2)(4)	Yes
A. B. Hedemora Verkstader Hedemora S-77600 SWEDEN	Terminated - Royalty obligation ceases Dec. 31, 1990	(1)(4) (6)(7)	Yes
L'Office Cherifine des Phosphates ("OCP") Angle Route D'El Jadida Et Boulevard de la Grande Ceinture Casablanca, MOROCCO	November 30, 2003	(1)(4) (6)(7)	Yes
P. T. Boma Stork Jalan Laut 18-20 Pasuruan, INDONESIA	August 1, 1991	(1)(4) (6)(7)	Yes
Lusodorre Lda. Lisbon, PORTUGAL	Indefinite	(1)(4) (6)(7)	Yes
Moller & Jochumsen A/S [illegible]jlevej 3-5 [illegible]orsted DK-8700 Horsens DENMARK	Indefinite	(1)(4) (6)(7)	Yes
G. Neidl Furst Johannes Strasse Furstentum LIECHTENSTEIN	Indefinite	(3)(4) (6)	Yes
Omnium Traitements de Valorisation Le Doublon 11, Avenue Dubonnet 92407 Courbevoie Cedex Paris, FRANCE	Indefinite	(1)(4) (6)(7)	Yes
Christian Queroix 20 Av de Conde F 78600 Maisons Laffitte FRANCE	November 23, 1989 extendible for additional five (5) year periods	(3)(4)	No
Retec Ltd. Paringa Road, Gibson Island, [illegible]arrie, Queensland AUSTRALIA	July 31, 1991 Extendible	(3)(5) (6)	Yes

RECORDED: 04/16/1990 REEL: 005811 FRAME: 0494

TRADE-MARK

REEL: 4725 FRAME: 237

Sanki Engineering Co., Ltd. Sanshin Building 11 Yurakucho, 1-Chome Chiyoda-ku Tokyo 100, JAPAN	January 23, 1988	(1)(4) (6)(7)	Yes
Soken Chemical Engineering Company Ltd. 49-5, 3-Chome, Takada, Toshima - Ku, Tokyo, 171 JAPAN	October 10, 1996 extendible by consent	(3)(4) (6)	Yes
Stamicarbon BV P.O. Box 536160 AB Geleen, THE NETHERLANDS	December 31, 1987	(3)(4)	Yes
Taiwan Machinery Manufacturing Corporation P.O. Box 30 Kaohsiung, TAIWAN	Indefinite	(1)(4) (6)(7)	Yes
Uhde G.m.B.H.	June 10, 1987 automatically renewed for one (1) year periods	(3)(5) (6)	Yes
R. Wilfley & Sons, Inc. P.O. Box 2330 Denver, COLORADO 80201 USA	Indefinite	(3)(4) (6)	Yes

Code Identification

(1) - License of Dorr-Oliver Technology
(2) - Cross License of Technology
(3) - License to use third party Technology
(4) - Exclusive License
(5) - Non-exclusive License
(6) - Territorial Restriction
(7) - Royalty to Dorr-Oliver

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1981	SUDAN	SE			251980	80-06/07		Flocculant Distributor Means for Feedwell
1941	SWEDEN	FL	76043827				96-04/14	Endless Filter Belt
1955	SWEDEN	KD	7741398				97-12/13	Fluidized Bed Process Heater
1961	SWEDEN	CE	77118834				97-10/21	Nozzle Type Centrif. Machine w/Imprvd. Slurry Pumpg Chambe
1967	SWEDEN	CE			80068513		99-08/03	Multiple Hydrocyclone Device
1985	SWEDEN	KD			80067465	80-09/26		Low Profile Fluid Bed Heater or Vaporizer
2003	SWEDEN	EK			8202370	82-04/15		Solid Polymeric Electrolyte
2014	SWEDEN	CE			84018029			Centrifugal Pump with Deaeration Chamber
1973	SWITZ.	TP			121787			Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1951	TAIWAN	CE	NI11284				94-08/31	Nozzle Type Centrif. Machine w/Imprvd. Slurry Pumpg Chambe
1976	TAIWAN	BS	11786					Flow Distributor for Fluid Bed Biological Reactor
2018	TAIWAN	EK			75101506	86-04/24		High Flow Electrofiltration
2026	TAIWAN	EK			75101368	86-03/27		Non Ion Selective Membrane in an EAVF System
2028	TAIWAN	EK			75102357	86-05/27		Method and Apparatus for Electrofiltration
2034	TAIWAN	EK			75103298	86-07/18		Method & Apparatus for discharging Cake formed on an Electrode Structure
2012	TANZANIA	FL						Vacuum Expressor Device for a Rotary Drum Filter
2012	THAILAND	FL			002465			Vacuum Expressor Device for a Rotary Drum Filter
2012	TURKEY	FL			374384			Vacuum Expressor Device for a Rotary Drum Filter
1860	UN OF SA	TP	765228				92-08/31	Dilute Phase Waste Incinerator
1861	UN OF SA	TP	763552				92-06/15	Fluid Bed Incinerator Feed System
1888	UN OF SA	TP	727193				88-10/08	Fluidized Bed Reactor
1897	UN OF SA	TP	730615				89-09/25	Fluidized Bed Reactor
1905	UN OF SA	TP	743589				90-06/01	Concent. Double-Pipe Horiz. Ht.Exchge for Fiber Cont. Fluids
1928	UN OF SA	CE	757711				91-12/09	DeGritting And Fiber Removal System
1929	UN OF SA	TP	757948				91-12/22	Evap. Concent. of Waste Sludges w/Incinerator Exhaust Gas
1941	UN OF SA	FL	762047				92-04/06	Endless Filter Belt
1942	UN OF SA	TP	762976				92-05/19	Heat Transfer Element and Tuyere for Fluidized Bed Reactor

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1943	UN OF SA	TP	762977				92-05/19	Heat Exchanger for Fluid Bed Reactor
1945	UN OF SA	FL	773147					System & Method for Electric Dewatering of Solids Suspen.
1946	UN OF SA	CE	764832				92-08/11	Nozzle Type Centrifuge
1947	UN OF SA	SE	765769				92-09/27	Sedimentation Tank with Rotary Yieldable Rake Arm Struct.
1948	UN OF SA	TP	765352				92-09/08	Pier-Supported Refractory Constriction Element
1950	UN OF SA	TP	767637				92-12/23	Refractory Construction Dome for Fluidized Bed Reactor
1953	UN OF SA	TP	777439				93-12/14	Slag.Dischg.System w/Cooling means for Pressurized bed reacts.
1954	UN OF SA	TP	775559				93-09/16	Fluidized Bed Drying Process for Porous Materials
1955	UN OF SA	KD	777248				93-12/05	Fluidized Bed Process Heater
1958	UN OF SA	TP	782804				94-05/16	Aspirating Feed Funnel for Fluidized Reactor
1960	UN OF SA	SE	773821				93-06/24	Skimmer for Square Settling Tanks
1961	UN OF SA	CE	776140				93-10/14	Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chambs
1962	UN OF SA	TP	777622				93-12/22	Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1967	UN OF SA	CE	793598				99-07/17	Multiple Hydrocyclone Device
1972	UN OF SA	TP	786276				94-11/07	Dry Coal Feed Systems for Combustion Reactors
1973	UN OF SA	TP	786242				94-11/06	Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1974	UN OF SA	CE	795955				99-11/07	Flow Distribution Means for Screening Apparatus
1976	UN OF SA	BS	791960				99-04/24	Flow Distributor for Fluid Bed Biological Reactor
1978	UN OF SA	EK	790606				99-02/12	Electrically Augmented Vacuum Filtration
1980	UN OF SA	BS	793185				99-06/26	Apparatus for Dissolution of Gases in Liquid
1981	UN OF SA	SE	795075				99-09/25	Flocculant Distributor Means for Feedwell
1989	UN OF SA	EK	807386				00-11/26	Electrode Assembly
2008	UN OF SA	KD	832880				03-04/25	Fluidized Bed Boilers
2014	UN OF SA	CE			842108			Centrifugal Pump with Deaeration Chamber
2018	UN OF SA	EK			863239	86-04/30		High Flow Electrofiltration
1827	U.K.	SE	1291531				90-12/28	Sedimentation Tank with Pier-Supported Rotary Rake Struc
1884	U.K.	CE	1344576				92-03/08	Diaphragm Pump and Actuating System Therefor
1942	U.K.	TP	1506686				96-05/16	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	U.K.	TP	1495223				96-05/26	Heat Exchanger for Fluid Bed Reactor
1945	U.K.	FL	1568286				97-06/17	System & Method for Electric Dewatering of Solids Suspen.
1946	U.K.	CE	1515224				96-09/20	Nozzle Type Centrifuge
1954	U.K.	TP	1530840				97-09/26	Fluidized Bed Drying Process for Porous Materials
1955	U.K.	KD	1568538				92-12/08	Fluidized Bed Process Heater
1961	U.K.	CE	1565438				97-10/18	Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chambs
1967	U.K.	CE	249498				99-08/03	Multiple Hydrocyclone Device
1973	U.K.	TP	2012029				96-12/01	Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1976	U.K.	BS	2021968				99-05/24	Flow Distributor for Fluid Bed Biological Reactor
1978	U.K.	EK	2019689				99-03/23	Electrically Augmented Vacuum Filtration

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
							99-07/04	Apparatus for Dissolution of Gases in Liquid
1980	U.K.	BS	2029252				00-09/15	Low Profile Fluid Bed Heater or Vaporizer
1985	U.K.	KD	2064077				00-09/12	Desilication in Alkaline Pulp Processess
1986	U.K.	TP	20651888				01-06/26	Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrb. & Hopper
1993	U.K.	TP	2079620					Fluidized Bed Reactor with Vertical Cooling Coils
1998	U.K.	KD	2084893				02-03/05	Electrode Assembly with Ion Exchange Membrane
2001	U.K.	EK	2123438				02-03/05	Solid Polymeric Electrolyte
2003	U.K.	EK	2102451				03-05/27	Feed Seal for Bottom Feed Centrifuge
2010	U.K.	CE	21209618				04-05/24	Vacuum Expressor Device for a Rotary Drum Filter
2012	U.K.	FL	2140318					
1722	U.S	FL	3587863				88-06/28	Rotary Drum Filter
1953	U.S	TP	4106210				95-08/15	Slds.Dischg.Syste w/Cooling means for Pressurized bed reacts.
2027	U.S	EK	4619747				03-10/28	Electrofilter Process Using Recirculating Electrolyte
2028	U.S	EK	4639300				04-01/27	Method and Apparatus for Electrofiltration
2042	U.S	BS	4661455	87-4/28	819762	86-01/16		Membrane Cell Culturing Device
1579	U.S.	TP	3542523				87-11/24	Reactor Design
1668	U.S.	SE	3704789				89-12/05	Continuous Sediment Tank with Center-Pier Supported Sediment Raking Apparatus
1714	U.S.	FL	3587862				88-06/28	Rotary Table Filter Apparatus
1717	U.S.	SE	3498468				87-02/24	Sedimentation Tank
1729	U.S.	TP	3551100				87-12/29	Reduction of Sulphates
1743	U.S.	DT	3655076				89-04/11	Cargo Handling
1743	U.S.	DT	3655075				89-04/11	Cargo Handling
1743	U.S.	DT	3506144				87-04/14	Cargo Handling
1744	U.S.	TP	3511616				87-05/12	Fluidized Bed Reactor WindBox with Scavenging Jets
1745	U.S.	TP	3589866				88-06/29	Roasting of Pyrite
1774	U.S.	SE	3662781				89-05/16	Means for Submerged Intro of Fluid into Body of Liq.
1786	U.S.	FL	3642142				89-02/15	Centering Devices for endless filter belt
1786	U.S.	FL	3503517				87-03/31	Centering Devices for Endless filter belt
1786	U.S.	FL	3615023				88-10/26	Centering Devices for endless filter belt
1787	U.S.	SE	3497184				87-02/24	Agitating Apparatus for Floculating Treatmt of Suspensions
1791	U.S.	TP	3495556				87-03/17	Heat Exchanger of the Tube bundle type
1792	U.S.	TP	3578396				88-05/11	Fluidized Bed Treatmt of Spent Pulp Digestion Liq
1793	U.S.	TP	3632312				89-01/04	Production of High Strength Sulfur Dioxide
1796	U.S.	TP	3619435				88-11/09	Method of Thermally Blasting Clay Pellets Using Fluid Bed
1800	U.S.	TP	3552033				88-01/05	Diffusion Nozzle for Solids Fluidizing Apparatus
1816	U.S.	DT	3538529				87-11/10	Aircraft Loading Equipment
1819	U.S.	CE	3833468				91-09/03	System for Recovery of Fiber from Paper Mill Effluent
1821	U.S.	TP	3588063				88-06/28	Process for Compacting Decrepitable Fines
1822	U.S.	SE	3542207				87-11/24	Sedimentation Tank with Rotary Sediment Ranking Structure
1827	U.S.	SE	3539051				87-11/10	Sedimentation Tank with Pier-Supported Rotary Rake Struc
1828	U.S.	TP	3598374				88-08/10	Fluidized Bed Reactor with Preheating of Fluidized Air
1829	U.S.	TP	3598375				88-08/10	Fluidized Bed Reactor
1847	U.S.	EN	3504795				87-04/07	Water Sludge Separation System And Method

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1857	U.S.	EN	4017388				94-04/12	Split Treatmt Phosphorus Removal from Waste
1860	U.S.	TP	4021184				94-05/03	Dilute Phase Waste Incinerator
1861	U.S.	TP	4036153				94-07/19	Fluid Bed Incinerator Feed System
1862	U.S.	IP	3622087				88-11/23	Beneficiation of Phosphate Rock
1864	U.S.	FL	3630389				88-12/28	Rotary Vacuum Drum Filters
1872	U.S.	TP	3753691				90-08/21	Process for Extracting Copper from Sulfide Ores
1875	U.S.	TP	3661558				89-05/09	Process & Apparatus for distrib. Slurry to Reaction Furnace
1877	U.S.	CE	3722804				90-03/27	Rotary Pump Having Swash Type Impeller
1880	U.S.	FL	3780868				90-12/25	Pressure Filter Having Depending Tubular Filter Elements
1881	U.S.	CE	3711218				90-01/16	Centrifugal Pump with Open Type Impeller
1882	U.S.	DT	3710917				90-01/16	Conveying Apparatus
1883	U.S.	FL	3762563				90-10/02	Cylindric[illegible]tary Strainer
1884	U.S.	CE	3816034				91-06/11	Diaphragm Pump and Actuating System Therefor
1886	U.S.	CE	3781141				90-12/25	Air Pressure Actuated Single-Acting Diaphragm Pump
1887	U.S.	CE	3838946				91-10/01	Air Pressure-Actuated Double Acting Diaphragm Pump
1887	U.S.	CE	3849033				91-11/19	Air Pressure-Actuated Double Acting Diaphragm Pump
1888	U.S.	TP	3863577				92-02/04	Fluidized Bed Reactor
1894	U.S.	TP	3959126				93-05/25	Sewage Handling/Disposal Process for Chloride (HACL)
1897	U.S.	TP	3998929				93-12/21	Fluidized Bed Reactor
1898	U.S.	TP	3872211				92-03/18	Calcination of High Moisture Content Phosphate Rock
1899	U.S.	TP	4083929				95-04/11	Beneficiation of Phosphate Rock
1900	U.S.	TP	3877488				92-04/15	Venturi Scrubber Expansion Joint
1900	U.S.	TP	4016449					Venturi Scrubber Expansion Joint
1901	U.S.	FL	3962091				93-06/08	Rotary Drum Filter with Wire Deck, Apparatus and Method
1902	U.S.	CE	3854658				91-12/17	Solid Bowl Conveyor Type Centrifuge
1905	U.S.	TP	3920068				92-11/18	Concent. Double-Pipe Horiz. Ht.Exchge for Fiber Cont. Fluids
1909	U.S.	FD	3954622				93-05/04	Sealing Means for Divider Strips on Filter Drums
1910	U.S.	TP	3864458				92-02/04	Fluid Bed Incineration of Chloride-Containing Waste Streams
1912	U.S.	TP	3904549				92-09/09	Fluidized Bed Regeneration of Powdered Activated Carbon
1913	U.S.	SE	3959152				93-05/25	Traction-Driven Compos. Sludge Raking Mechnsm for Sed. Tanks
1915	U.S.	SE	4054514				94-10/18	Sedimentation Apparatus with Flocculating Feed Well
1917	U.S.	SE	4017402				94-04/12	Sedimentation Tank Having a Rotary Rake Structure
1918	U.S.	TP	3907674				92-09/23	Fluid Bed Incineration Wastes Containing Alkali Metal Chlrds

16-Apr-97

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1919	U.S.	CE	3930999				93-01/06	Pulse Transfer Thickening
1921	U.S.	SE	3959151				93-05/25	Continuously Opting Sediat. Tank w/Pier Supported Rake Struc
1922	U.S.	CE	4039348				94-08/02	Treatment of Raw Sugar Juice
1923	U.S.	CE	3967778				93-07/06	Centrifugal Separator
1926	U.S.	TP	4017585				94-04/12	Fluid Bed Calcination Process
1927	U.S.	TP	4018267				94-04/19	Cleaning Heat Exchanger Tubes
1928	U.S.	CE	3989628				93-11/02	DeGritting And Fiber Removal System
1929	U.S.	TP	3926129				92-12/16	Evap. Concent. of Waste Sludges w/Incinerator Exhaust Gas
1941	U.S.	FL	3965011				93-06/22	Endless Filter Belt
1942	U.S.	TP	3982901				93-09/28	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	U.S.	TP	3983927				93-10/05	Heat Exchanger for Fluid Bed Reactor
1945	U.S.	EK	4552019				02-11/12	Method/Apparatus for Measuring a Colloidal Potential
1945	U.S.	EK	4170529				96-10/09	System & Method for Electric Dewatering of Solids Suspen.
1945	U.S.	EK	4107026				95-08/15	System & Method for Electric Dewatering of Solids Suspen.
1946	U.S.	CE	4005817				94-02/01	Nozzle Type Centrifuge
1947	U.S.	SE	4000075				93-12/28	Sedimentation Tank with Rotary Yieldable Rake Arm Struct.
1948	U.S.	TP	4159305				96-06/26	Pier-Supported Refractory Constriction Element
1950	U.S.	TP	4073064				95-02/14	Refractory Construction Dome for Fluidized Bed Reactor
1952	U.S.	TP	4053375				94-10/11	Process for Recovy of Alumina-Cryolite waste in Alum.prod.
1954	U.S.	TP	4085516				95-04/25	Fluidized Bed Drying Process for Porous Materials
1955	U.S.	KD	4096909				95-06/27	Fluidized Bed Process Heate-
1959	U.S.	CE	4059223				94-11/22	Centrifuge Pressure Relief Device
1960	U.S.	SE	4043920				94-08/23	Skimmer for Square Settling Tanks
1961	U.S.	CE	4067494				95-01/10	Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chambe
1962	U.S.	TP	4102277				95-07/25	Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1962	U.S.	TP	4168670				96-09/25	Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1964	U.S.	FL	4105563				95-08/08	Continuous Drum Filter w/Improvd. Agitator Structure
1965	U.S.	CE	4207118				97-06/10	Corn wet Milling System and Process for Manufacturing Starch
1966	U.S.	TP	4115070				95-09/19	Transfer Pipe System
1967	U.S.	CE	4260480				98-04/07	Multiple Hydrocyclone Device
1969	U.S.	FL	4142976				96-03/06	Barometric for Rotary Vacuum Filter
1970	U.S.	FL	4207190				97-04/10	Rotary Vacuum Disc Filter
1972	U.S.	TP	4152210				96-05/01	Dry Coal Feed Systems for Combustion Reactors

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1973	U.S.	TP	4159682				96-07/03	Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1973	U.S.	TP	4232614				97-04/11	Process of Incin w/Predryg of Mat. Feed Using Hot Inert Parts.
1974	U.S.	CE	4202777				97-05/13	Flow Distribution Means for Screening Apparatus
1976	U.S.	BS	4202774				97-05/13	Flow Distributor for Fluid Bed Biological Reactor
1978	U.S.	EK	4207158				97-06/10	Electrically Augmented Vacuum Filtration
1978	U.S.	EK	4168222				96-09/18	Electrically Augmented Vacuum Filtration
1980	U.S.	BS	4466928				01-08/21	Apparatus for Dissolution of Gases in Liquid
1980	U.S.	BS	4477393				01-10/16	Apparatus for Dissolution of Gases in Liquid
1981	U.S.	SE	4274958				98-06/23	Flocculant Distributor Means for Feedwell
1985	U.S.	KD	4338887				99-07/13	Low Profile Fluid Bed Heater or Vaporizer
1986	U.S.	IP	4331507				99-05/25	Desilication in Alkaline Pulp Processess
1987	U.S.	TP	4304754				98-12/08	Fluid Bed Calcining Apparatus
1987	U.S.	TP	4263262				98-04/21	Fluid Bed Calcining Process
1988	U.S.	FL	4276169				98-06/30	Drainage Deck Assembly for Rotary Vacuum Drum Filter
1989	U.S.	EK	4303492				98-12/01	Electrode Assembly
1992	U.S.	TP	4343246				99-08/10	Slurry Coal Feed System for Fluidized Bed Reactor
1993	U.S.	TP	4301771				98-11/24	Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrt. & Hopper
1994	U.S.	SED	4323456				99-04/05	Corner Sweep Mechanism for Square Settling Tank
1998	U.S.	KD	4314967				99-02/09	Fluidized Bed Reactor with Vertical Cooling Coils
2000	U.S.	TP	4346064				99-08/24	Decontamination of Combustion Gases in Fluidized Bed Incinerators
2001	U.S.	EK			222057	81-01/02		Electrode Assembly with Ion Exchange Membrane
2002	U.S.	EK	4382848				00-10/05	Cam-Actuated Member for Lifting Mechanism
2003	U.S.	EK	4513032				02-04/23	Solid Polymeric Electrolyte
2003	U.S.	EK	4419209				00-12/06	Solid Polymeric Electrolyte
2004	U.S.	BS	4412003				00-10/25	Integral Flow Circulator for Fluid Bed Reactor
2008	U.S.	KD	4449482				01-05/22	Fluidized Bed Boilers
2009	U.S.	SE	4425232				98-01/10	Flotation Separation Apparatus and Method
2010	U.S.	CE	4430071				01-02/07	Feed Seal for Bottom Feed Centrifuge
2011	U.S.	SE	4462908				01-07/31	Rake Lifting Means for Sedimentation Apparatus
2012	U.S.	FL			764352	85-08/09		Vacuum Expressor Device for a Rotary Drum Filter
2013	U.S.	SE	4462909				01-07/31	Surface Skimmer Means for Settling Tank
2014	U.S.	CE	4548545				02-11/22	Centrifugal Pump with Deaeration Chamber
2015	U.S.	FL	4551248				02-11/05	Filter Drum for Rotary Drum Vacuum Filter

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
2016	U.S.	EK	4468306				01-08/28	Biodic Electrofiltration
2018	U.S.	EK	4504174				03-08/05	High Flow Electrofiltration
2019	U.S.	FL	4581139				03-04/08	Filtrate Run-back Baffle for Rotary Drum Vacuum Filter
2020	U.S.	EK	4569739				03-02/11	Electrofilter t ..g an Improved Electrode Assembly
2021	U.S.	TP	4479617				01-10/30	Pressurized Hot Cyclone
2022	U.S.	FL	4525274				02-06/25	Filtrate Discharge System Filter
2023	U.S.	TP	4544542				02-10/01	Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
2024	U.S.	EK	4602989				03-07/29	Method & Apparatus for Determining the Zeta Potential of Colloidal
2025	U.S.	BS	4614588				03-08/05	Method for Sulfide Toxicity Reduction
2026	U.S.	EK	4615786				03-10/07	Non Ion Selective Membrane in an EAVF System
2029	U.S.	FL			926488	86-11/03		VEB Track & Cont. Method /Apparatus for Rotary Vacuum Filt.
2030	U.S.	CE			833949	86-02/26		Feed Inlet & overflow Housing Assembly for Centrifuge
2031	U.S.	KD			916689	86-10/08		Apparatus to reduce or eliminate fluid bed tube erosion
2033	U.S.	KD			922365	86-10/23		Ash Classifiers
2034	U.S.	EK			771436	85-08/30		Method & Apparatus for dischging Cake formed on an Electrode Structure
2035	U.S.	BS			748519	85-06/25		Method and Apparatus for concentrating bioparticles
2036	U.S.	CE			795017	85-11/14		Process and Device for Improving working of Liquid Pumps
2037	U.S.	EK			851065	86-04/11		Method of Removing Selected Ions from cakes deposited on EAVF Device
2038	U.S.	EK			777101	85-09/17		Method/Apparatus for measuring the Unsteady Sedmt potential colloidal
2039	U.S.	EK			856532	86-04/28		Electrode probe for a zeta potential meter
2040	U.S.	FL	4640775				03-02/03	Horizontal Tray Belt Filter
2041	U.S.	FL	4528103				02-07/09	Pressure Filter
2043	U.S.	EK			725188	85-04/19		Electrically Augmented Vacuum Filtration App. for Prod. Dialyzed Cake
2044	U.S.	EK			738196	85-05/24		Dialyzing Electrofilter with Improved Electrode
2044	U.S.-CIP	EK			3981	87-01/16		Dialyzing Crossflow Electrofilter with Improved Electrode
2045	U.S.	SE						Improved Flotation Mechanism

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
								TRADE-MARK
1918	BAHRAIN	TP	0004/94					Fluid Bed Incineration Wastes Containing Alkali Metal Chlrds
1860	BELGIUM	TP	846839				96-10/01	Dilute Phase Waste Incinerator
1861	BELGIUM	TP	843710				96-07/02	Fluid Bed Incinerator Feed System
1918	BELGIUM	TP	826420				95-03/07	Fluid Bed Incineration Wastes Containing Alkali Metal Chlrds
1928	BELGIUM	CE	837273				96-01/02	DeGritting And Fiber Removal System
1942	BELGIUM	TP	843331				96-06/24	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	BELGIUM	TP	843332				96-06/21	Heat Exchanger for Fluid Bed Reactor
1945	BELGIUM	FL	855796				97-06/17	System & Method for Electric Dewatering of Solids Suspen.
1954	BELGIUM	TP	859267				97-09/30	Fluidized Bed Drying Process for Porous Materials
1955	BELGIUM	KD	862158				97-12/22	Fluidized Bed Process Heater
1962	BELGIUM	TP	862602				98-01/03	Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1973	BELGIUM	TP	872410				98-11/30	Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1978	BELGIUM	EK	875654				99-04/18	Electrically Augmented Vacuum Filtration
2003	BELGIUM	EK	892418					Solid Polymeric Electrolyte
2036	BELGIUM	CE	902151				05-04/11	Process and Device for Improving working of Liquid Pumps
2009	BELG. CONGO	SE	842740					Flotation Separation Apparatus and Method
1921	BRAZIL	SE	PI7503218				90-05/22	Continuously Oprting Sedimt. Tank w/Pier Supported Rake Struc
1976	BRAZIL	BS	PI7903176				94-05/22	Flow Distributor for Fluid Bed Biological Reactor
1978	BRAZIL	EK	PI7901599				94-03/19	Electrically Augmented Vacuum Filtration
1980	BRAZIL	BS			PI7904762			Apperatus for Dissolution of Gases in Liquid
2008	BRAZIL	KD			PI8302177	83-04/27		Fluidized Bed Boilers
2009	BRAZIL	SE			PI8301932	83-04/15		Flotation Separation Apperatus and Method
2011	BRAZIL	SE			PI8305878			Rake Lifting Means for Sedimentation Apparatus
2012	BRAZIL	FL			PI8402445			Vacuum Expressor Device for a Rotary Drum Filter
2022	BRAZIL	FL			PI8501569	85-04/03		Filtrate Discharge System Filter
2040	BRAZIL	FL			PI8500527			Horizontal Tray Belt Filter
2041	BRAZIL	FL			PI8501568	85-04/03		Pressure Filter

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
2026	CANADA	EK			505442	86-03/27		Ion Selective Membrane in an EAVF System
2028	CANADA	EK			509255	86-05/15		Method and Apparatus for Electrofiltration
2034	CANADA	EK			513571	86-07/11		Method & Apparatus for discharging Cake formed on an Electrode Structure
2038	CANADA	EK			518126			Method/Apparatus for measuring the unsteady Sedmt potential colloidal
2040	CANADA	FL			472142			Horizontal Tray Belt Filter
2041	CANADA	FL			4784901	85-04/04		Pressure Filter
2042	CANADA	BS			525658	86-12/17		Membrane Cell Culturing Device
2044	CANADA	EK			509254	86-05/15		Dialyzing Electrofilter with Improved Electrode
2040	CHILE	FL			6083			Horizontal Tray Belt Filter
2023	CHINA	TP			85104649	85-06/15		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
1918	COLOMBIA	TP	20478					Fluid Bed Incineration Wastes Containing Alkali Metal Chlrds
1942	COLOMBIA	TP	21211					Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	COLOMBIA	TP			158717			Heat Exchanger for Fluid Bed Reactor
1961	COLOMBIA	CE	20294					Nozzle Type Centrif. Machine w/Imprvd. Slurry Pumpg Chambs
1986	COLOMBIA	IP	21212				89-11/06	Desification in Alkaline Pulp Processess
2012	COLOMBIA	FL			232680	83-05/24		Vacuum Expressor Device for a Rotary Drum Filter
1955	DENMARK	KO	148933				97-12/12	Fluidized Bed Process Heater
1976	DENMARK	BS			212679	78-05/24		Flow Distributor for Fluid Bed Biological Reactor
1980	DENMARK	BS			360279			Apparatus for Dissolution of Gases in Liquid
1981	DENMARK	SE	148995			78-10/9	99-10/09	Flocculant Distributor Means for Feedwell
2004	DENMARK	BS			340182	82-07/29		Integral Flow Circulator for Fluid Bed Reactor
2011	DENMARK	SE			489103	83-10/25		Rake Lifting Means for Sedimentation Apparatus
2023	DENMARK	TP			157905	85-04/09		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
1986	EGYPT	IP	14460				95-10/03	Desification in Alkaline Pulp Process

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1860	CANADA	TP	1059377					Dilute Phase Waste Incinerator
1861	CANADA	TP	1043172				95-11/28	Fluid Bed Incinerator Feed System
1875	CANADA	TP	939143					Process & Apparatus for distrib. Slurry to Reaction Furnace
1888	CANADA	TP			968633			Fluidized Bed Reactor
1897	CANADA	TP	994991					Fluidized Bed Reactor
1905	CANADA	TP	992950					Concent. Double-Pipe Horiz. Ht.Exchge for Fiber Cont. Fluids
1915	CANADA	SE	1051132					Sedimentation Apparatus with Flocculating Feed Well
1918	CANADA	TP	1012005					Fluid Bed Incineration Wastes Containing Alkali Metal Chlrds
1927	CANADA	TP	1043329					Cleaning Heat Exchanger Tubes
1942	CANADA	TP	1074085					Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1948	CANADA	TP			261075			Pier-Supported Refractory Constriction Element
1953	CANADA	TP			293281			Slds.Dischg.Systm w/Cooling means for Pressurized bed reacts.
1954	CANADA	TP	1083809					Fluidized Bed Drying Process for Porous Materials
1955	CANADA	KD	1068999					Fluidized Bed Process Heater
1958	CANADA	TP	1095697					Aspirating Feed Funnel for Fluidized Reactor
1962	CANADA	TP	293783					Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1972	CANADA	TP	1097139					Dry Coal Feed Systems for Combustion Reactors
1973	CANADA	TP	1104424					Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1974	CANADA	BS	1107481					Flow Distributor for Fluid Bed Biological Reactor
1980	CANADA	BS	1119948					Apparatus for Dissolution of Gases in Liquid
1981	CANADA	SE	1114969					Flocculant Distributor Means for Fes4well
1985	CANADA	KD	1143615					Low Profile Fluid Bed Heater or Vaporizer
1987	CANADA	TP	1011106					Fluid Bed Calcining Process
1988	CANADA	FL			375050			Drainage Deck Assembly for Rotary Vacuum Drum Filter
1993	CANADA	TP	1154335					Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrb. & Hopper
1994	CANADA	SE	1167775					Corner Sweep Mechanism for Square Settling Tank
1998	CANADA	KD	1154960					Fluidized Bed Reactor with Vertical Cooling Coils
2009	CANADA	SE	1181182				02-01/15	Flotation Separation Apparatus and Method
2016	CANADA	EK			455546	84-05/31		Biodic Electrofiltration
2022	CANADA	FL						Filtrate Discharge System Filter
2023	CANADA	TP			473534	85-02/04		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
2024	CANADA	EK			518127			Method & Apparatus for Determining the Zeta Potential of Colloidal
2025	CANADA	BS			514735	86-07/25		Method for Sulfide Toxicity Reduction

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1976	EPO	BS	0005650					Flow Distributor for Fluid Bed Biological Reactor
1980	EPO	BS	0008856					Apparatus for Dissolution of Gases in Liquid
1981	EPO	SE	10395			79-10/9	99-10/09	Flocculant Distributor Means for Feedwell
1989	EPO	EK	0033807					Electrode Assembly
2009	EPO	SE			831037676			Flotation Separation Apparatus and Method
2016	EPO	EK			843037631	84-06/05		Biodic Electrofiltration
2018	EPO	EK			863031092	86-04/24		High Flow Electrofiltration
2020	EPO	EK			853095644	85-12/21		Electrofilter Using an Improved Electrode Assembly
2022	EPO	FL			853023364	85-04/06		Filtrate Discharge System Filter
2023	EPO	TP			853019180	85-04/19		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
2026	EPO	EK			86306854.0	86-09/04		Method & Apparatus for Determining the Zeta Potential of Colloidal
2026	EPO	EK			8630293.8	86-04/18		Non Ion Selective Membrane in an EAVF System
2028	EPO	EK			863038766	86-05/21		Method and Apparatus for Electrofiltration
2034	EPO	EK			863056792	86-07/24		Method & Apperatus for discharging Cake formed on an Electrode Structure
2040	EPO	FL			851011775			Horizontal Tray Belt Filter
2041	EPO	FL			85302451	85-04/04		Pressure Filter
2042	EPO	BS			873002232	87-01/12		Membrane Cell Culturing Device
2044	EPO	EK			863039749	86-05/23		Dialyzing Electrofilter with Improved Electrode
1972	E.GERMNY	TP	141056				97-12/07	Dry Coal Feed Systems for Combustion Reactors
1973	FINLAND	TP			783460			Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1980	FINLAND	BS			792603			Apparatus for Dissolution of Gases in Liquid
1981	FINLAND	SE	68528			79-10/3	99-10/03	Flocculant Distributor Means for Feedwell
2009	FINLAND	SE			831291	83-04/18		Flotation Separation Apparatus and Method
2012	FINLAND	FL			841859			Vacuum Expressor Device for a Rotary Drum Filter
2014	FINLAND	CE			841330			Centrifugal Pump with Deaeration Chamber
2022	FINLAND	FL			851259	85-03/28		Filtrate Discharge System Filter
2024	FINLAND	EK			863694	86-09/12		Method & Apperatus for Determining the Zeta Potential of Colloidal
2038	FINLAND	EK			863695	86-09/12		Method/Apperatus for measuring the Unsteady Sedmt potential colloidal
2040	FINLAND	FL			850343			Horizontal Tray Belt Filter
2041	FINLAND	FL			851260	85-03/28		Pressure Filter

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1821	FRANCE	TP	7016339				90-05-05	Process for Compacting Decrepitable Fines
1827	FRANCE	SE	7044192				90-12-28	Sedimentation Tank with Pier-Supported Rotary Rake Struc
1860	FRANCE	TP	1499710				96-09-23	Dilute Phase Waste Incinerator
1860	FRANCE	TP			7629640			Dilute Phase Waste Incinerator
1875	FRANCE	TP	7105005				91-02/05	Process & Apparatus for distrib. Slurry to Reaction Furnace
1884	FRANCE	CE	7208537				92-03/10	Diaphragm Pump and Actuating System Therefor
1888	FRANCE	TP	7241358				92-11/21	Fluidized Bed Reactor
1918	FRANCE	TP			7510910		95-04/08	Fluid Bed Incineration Wastes Containing Alkali Metal Chlorid
1942	FRANCE	TP	7618489					Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	FRANCE	TP	7619279					Heat Exchanger for Fluid Bed Reactor
1954	FRANCE	TP	7729342				97-09/29	Fluidized Bed Drying Process for Porous Materials
1961	FRANCE	CE	7733272					Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chambe
1962	FRANCE	TP	7800022				98-01/02	Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1967	FRANCE	CE	8011665				99-08/03	Multiple Hydrocyclone Device
1976	FRANCE	BS	7913222				99-05/23	Flow Distributor for Fluid Bed Biological Reactor
1978	FRANCE	EK			7905657	79-03/05		Electrically Augmented Vacuum Filtration
1981	FRANCE	SE	10395				99-10/09	Flocculant Distributor Means for Feedwell
1998	FRANCE	KD			8118441	81-09/30		Fluidized Bed Reactor with Vertical Cooling Coils
2001	FRANCE	EK			8204761	81-01/02		Electrode Assembly with Ion Exchange Membrane
2025	FRANCE	BS			8611930	86-08/20		Method for Sulfide Toxicity Reduction
1976	HONGKONG	BS	389of1983					Flow Distributor for Fluid Bed Biological Reactor
1980	HONGKONG	BS	2341984					Apparatus for Dissolution of Gases in Liquid

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1860	INDIA	TP	144841				90-08/31	Dilute Phase Waste Incinerator
1898	INDIA	TP	141751				87-11/08	Calcination of High Moisture Content Phosphate Rock
1913	INDIA	SE	143543				96-11/20	Traction-Driven Compos. Sludge Raking Mechnsm for Sed. Tanks
1942	INDIA	TP	145000				90-05/22	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	INDIA	TP	145398				96-06/24	Heat Exchanger for Fluid Bed Reactor
1944	INDIA	CE	155727				90-06/09	Method for the Treatment of Sewage Screenings
1945	INDIA	FL	155969				91-05/25	System & Method for Electric Dewatering of Solids Suspen.
1947	INDIA	SE	156435				90-09/27	Sedimentation Tank with Rotary Yieldable Rake Arm Struct.
1948	INDIA	TP	155822				90-09/08	Pier-Supported Refractory Constriction Element
1950	INDIA	TP	155828				90-12/22	Refractory Construction Dome for Fluidized Bed Reactor
1953	INDIA	TP	148298				92-01/12	Side.Dische System w/Cooling means for Pressurized bed reacts.
1954	INDIA	TP	146755				91-09/21	Fluidized Bed Drying Process for Porous Materials
1955	INDIA	KD	146500				91-12/06	Fluidized Bed Process Heater
1958	INDIA	TP	148382				92-05/17	Aspirating Feed Funnel for Fluidized Reactor
1959	INDIA	CE	149416				91-07/14	Centrifuge Pressure Relief Device
1960	INDIA	SE	148535				91-06/24	Skimmer for Square Settling Tanks
1961	INDIA	CE	146280				91-10/12	Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chamb
1962	INDIA	TP	147020				91-12/23	Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.fuel
1964	INDIA	FL	148038				92-05/19	Continuous Drum Filter w/Improvd. Agitator Structure
1966	INDIA	TP	149535				92-05/17	Transfer Pipe System
1967	INDIA	CE	152711				93-07/18	Multiple Hydrocyclone Device
1969	INDIA	FL	150418				92-12/19	Barometric for Rotary Vacuum Filter
1970	INDIA	FL	150352				92-12/19	Rotary Vacuum Disc Filter
1972	INDIA	TP	150171				92-09/11	Dry Coal Feed Systems for Combustion Reactors
1974	INDIA	CE	153396				93-11/13	Flow Distribution Means for Screening Apparatus
1976	INDIA	BS	150533				93-04/25	Flow Distributor for Fluid Bed Biological Reactor
1980	INDIA	BS	152544				93-07/11	Apparatus for Dissolution of Gases in Liquid
1981	INDIA	SE	153184			79-9/17	93-09/17	Flocculent Distributor Means for Feedwell
1985	INDIA	KD	154687				99-09/09	Low Profile Fluid Bed Heater or Vaporizer
1986	INDIA	IP	154386				94-05/30	Desilication in Alkaline Pulp Processess
1988	INDIA	FL	155594				95-03/17	Drainage Deck Assembly for Rotary Vacuum Drum Filter
1989	INDIA	EK	155014				94-11/25	Electrode Assembly
1993	INDIA	TP	156220				95-06/16	Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrb. & Hopper

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1996	INDIA	SE			543DEL81			Corner Sweep Mechanism for Square Settling Tank
1998	INDIA	KD			595DEL80	81-09/16		Fluidized Bed Reactor with Vertical Cooling Coils
2004	INDIA	BS			433DEL82	82-06/07		Integral Flow Circulator for Fluid Bed Reactor
2008	INDIA	KD			518CAL83	83-04/28		Fluidized Bed Boilers
2009	INDIA	SE			185DEL83	83-03/22		Flotation Separation Apperatus and Method
2010	INDIA	CE			435DEL83	83-06/29		Feed Seal for Bottom Feed Centrifuge
2011	INDIA	SE			684DEL83	83-10/03		Rake Lifting Means for Sedimentation Apparatus
2012	INDIA	FL			377DEL84	84-05/01		Vacuum Expressor Device for a Rotary Drum Filter
2020	INDIA	EK			1009DEL85	85-11/29		Electrofilter Using an Improved Electrode Assembly
2022	INDIA	FL			213DEL85	85-03/14		Filtrate Discharge System Filter
2023	INDIA	TP			64DEL85	85-01/28		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
2025	INDIA	BS			668DEL86	86-07/23		Method for Sulfide Toxicity Reduction
2040	INDIA	FL			27DEL85	85-01/15		Horizontal Tray Belt Filter
2041	INDIA	FL			214DEL85	85-03/14		Pressure Filter
2042	INDIA	BS			1124DEL86	86-12/22		Membrane Cell Culturing Device
1918	INDONESIA	TP			5138			Fluid Bed Incineration Wastes Containing Alkali Metal Chlrds.
1986	INDONESIA	IP			7699	80-09/18		Desilication in Alkaline Pulp Processess
2041	INDONESIA	FL			10598	85-04/04		Pressure Filter
2001	IRELAND	EK			43782	82-02/26		Electrode Assembly with Ion Exchange Membrane
2004	IRELAND	BS			156382	82-06/29		Integral Flow Circulator for Fluid Bed Reactor
2010	IRELAND	CE			123783	83-05/25		Feed Seal for Bottom Feed Centrifuge
2011	IRELAND	SE			248/83	83-10/24		Rake Lifting Means for Sedimentation Apparatus
1899	ISRAEL	TP	46100				94-01/20	Beneficiation of Phosphate Rock
1961	ISRAEL	SE	58255				99-09/17	Flocculant Distributor Means for Feedwell

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1942	ITALY	TP	1062373				96-06/24	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	ITALY	TP	1062374				90-05/22	Heat Exchanger for Fluid Bed Reactor
1945	ITALY	FL	1116640				97-06/17	System & Method for Electric Dewatering of Solids Suspen.
1946	ITALY	CE	1071373				96-09/17	Nozzle Type Centrifuge
1962	ITALY	TP			69968A77			Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1967	ITALY	CE			86251A80			Multiple Hydrocyclone Device
1978	ITALY	EK	1113326				99-04/19	Electrically Augmented Vacuum Filtration
1985	ITALY	KD			68494A80	80-09/26		Low Profile Fluid Bed Heater or Vaporizer
1821	JAPAN	TP	713763					Process for Compacting Decrepitable Fines
1857	JAPAN	EM	778485				89-05-02	Split Treatmt Phosphorus Removal from Waste
1861	JAPAN	TP	1300727				96-07/01	Fluid Bed Incinerator Feed System
1872	JAPAN	TP	875030				91-01/31	Process for Extracting Copper from Sulfide Ores
1875	JAPAN	TP	853474				91-02/16	Process & Apperatus for distrib. Slurry to Reaction Furnace
1884	JAPAN	CE	1014066				92-03/13	Diaphragm Pump and Actuating System Therefor
1886	JAPAN	CE	1034053				92-07/12	Air Pressure Actuated Single-Acting Diaphragm Pump
1888	JAPAN	TP	1062846				92-11/20	Fluidized Bed Reactor
1897	JAPAN	TP	1052337		10048		93-10/26	Fluidized Bed Reactor
1898	JAPAN	TP	1113333				93-11/02	Calcination of High Moisture Content Phosphate Rock
1913	JAPAN	SE	1205382				94-12/13	Traction-Driven Compos. Sludge Raking Mechnsm for Sed. Tanks
1941	JAPAN	FL	1245645				96-04/30	Endless Filter Belt
1942	JAPAN	TP	1216932				96-06/22	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	JAPAN	TP	1221154				96-06/23	Heat Exchanger for Fluid Bed Reactor
1944	JAPAN	CE			8105676			Method for the Treatment of Sewage Screenings
1945	JAPAN	FL			7005077			System & Method for Electric Dewatering of Solids Suspen.
1947	JAPAN	SE			16089376			Sedimentation Tank with Rotary Tiltable Rake Arm Struct.
1948	JAPAN	TP			11435076			Pier-Supported Refractory Constriction Element
1950	JAPAN	TP	1338016				97-02/09	Refractory Construction Dome for Fluidized Bed Reactor
1952	JAPAN	TP	1278064				97-07/12	Process for Recovy of Alumina-Cryolite waste in Alum.prod.
1953	JAPAN	TP	1349290				97-12/29	Slds.Dischg.System w/Cooling means for Pressurized bed reacts.
1956	JAPAN	TP	11654377					Fluidized Bed Drying Process for Porous Materials
1955	JAPAN	KD	15428877					Fluidized Bed Process Heater
1958	JAPAN	TP			8565278			Aspirating Feed Funnel for Fluidized Reactor

REEL 4725 FRAME 221

REEL 0581 FRAME 433

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1959	JAPAN	CE	1322933				97-08/18	Centrifuge Pressure Relief Device
1960	JAPAN	SE	1320544				97-08/10	Skimmer for Square Settling Tanks
1961	JAPAN	CE	1335230				97-12/27	Nozzle Type Centrif. Machine w/Imprvd. Slurry Pumpg Chambs
1962	JAPAN	TP			16093677			Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1966	JAPAN	TP			64205719			Transfer Pipe System
1967	JAPAN	CE			10306579			Multiple Hydrocyclone Device
1972	JAPAN	TP			15048478			Dry Coal Feed Systems for Combustion Reactors
1973	JAPAN	TP			147087			Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1974	JAPAN	CE			17402579			Flow Distribution Means for Screening Apparatus
1976	JAPAN	BS	1185093				98-04/08	Flow Distributor for Fluid Bed Biological Reactor
1978	JAPAN	EK			4484079	79-04/12		Electrically Augmented Vacuum Filtration
1980	JAPAN	BS			10806479			Apparatus for Dissolution of Gases in Liquid
1981	JAPAN	SE			12879679	79-10/05		Flocculant Distributor Means for Feedwell
1985	JAPAN	KD			73414880	80-09/26		Low Profile Fluid Bed Heater or Vaporizer
1986	JAPAN	IP			17447180	80-12/10		Desilication in Alkaline Pulp Processess
1988	JAPAN	FL			5243381	88-04/09		Drainage Deck Assembly for Rotary Vacuum Drum Filter
1989	JAPAN	EK			189419	80-12/29	80-12/29	Electrode Assembly
1993	JAPAN	TP			10386281	81-07/02		Fluidized Bed Ht Reactor Exchg.w/Water Cooled Air Distrb. & Hopper
1998	JAPAN	KD			1560681	81-09/30		Fluidized Bed Reactor with Vertical Cooling Coils
2001	JAPAN	EK			31631	82-02/27		Electrode Assembly with Ion Exchange Membrane
2003	JAPAN	EK			31632	82-02/27		Solid Polymeric Electrolyte
2004	JAPAN	BS			11830082	82-07/07		Integral Flow Circulator for Fluid Bed Reactor
2008	JAPAN	KD			7412983	83-04/28		Fluidized Bed Boilers
2009	JAPAN	SE			6906483	83-04/19		Flotation Separation Apparatus and Method
2010	JAPAN	CE			9260283	83-05/27		Feed Seal for Bottom Feed Centrifuge
2014	JAPAN	CE			6564484			Centrifugal Pump with Deaeration Chamber
2015	JAPAN	FL			11215784			Filter Drum for Rotary Drum Vacuum Filter
2016	JAPAN	EK			12286384		84-06/14	Bipolar Electrofiltration
2018	JAPAN	EK			9496186	86-04/25		High Flow Electrofiltration
2020	JAPAN	EK			29968285	85-12/25		Electrofilter Using an Improved Electrode Assembly
2022	JAPAN	FL			7075185	85-04/03		Filtrate Discharge System Filter
2023	JAPAN	TP			8121385	85-04/16		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced
2024	JAPAN	EK			21556386	86-09/12		Method & Apperatus for Determining the Zeta Potential of Colloidal
2025	JAPAN	BS			19117986	86-08/14		Method for Sulfide Toxicity Reduction
2026	JAPAN	EK			8693686	86-04/15		Non Ion Selective Membrane in an EAVF System
2028	JAPAN	EK			11242586	86-05/16		Method and Apperatus for Electrofiltration
2034	JAPAN	EK			2035531986	86-08/29		Method & Apperatus for dischging Cake formed on an Electrode Structure
2038	JAPAN	EK			21556486	86-09/12		Method/Apperatus for measuring the Unsteady Sedmt potential colloidal
2040	JAPAN	FL			2078685	85-02/05		Horizontal Tray Belt Filter
2041	JAPAN	FL			7075085	85-04/03		Pressure Filter
2042	JAPAN	BS			7970/87	87-01/16		Membrane Cell Culturing Device
2044	JAPAN	EK			11836186	86-06/16		Dialyzing Electrofilter with Improved Electrode

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1967	KOREA	CE	16390				94-08/22	Multiple Hydrocyclone Device
2008	KOREA	EI			183783	83-04/28		Fluidized Bed Boilers
2018	KOREA	EI			863317	86-04/29		High Flow Electrofiltration
2026	KOREA	EI			863000	86-04/18		Non Ion Selective Membrane in an EAVF System
2028	KOREA	EI			863950	86-05/21		Method and Apparatus for Electrofiltration
2034	KOREA	EI			867205	86-08/29		Method & Apparatus for discharging Cake formed on an Electrode Structure
2040	KOREA	FI			85609	85-01/31		Horizontal Tray Belt Filter
2044	KOREA	EC			864080	86-05/24		Dialyzing Electrofilter with Improved Electrode
2012	MALAYA	FI						Vacuum Expressor Device for a Rotary Drum Filter
1860	MEXICO	TP	4011				91-10/30	Dilute Phase Waste Incinerator
1967	MEXICO	CE			178676		93-07/12	Multiple Hydrocyclone Device
1981	MEXICO	SE	150604				94-06/06	Flocculent Distributor Means for Feedwell
1986	MEXICO	IP			184167	80-10/01		Desilication in Alkaline Pulp Processess
2012	MEXICO	FI			201427			Vacuum Expressor Device for a Rotary Drum Filter
2022	MEXICO	FI			204849	85-04/03		Filtrate Discharge System Filter
2041	MEXICO	FI			204852	85-04/03		Pressure Filter
1821	MOROCCO	IP	15188				90-05-04	Process for Compacting Decrepitable Fines
1862	MOROCCO	IP	15548				91-05/07	Beneficiation of Phosphate Rock
1897	MOROCCO	IP	16187				93-10/26	Fluidized Bed Reactor
1898	MOROCCO	IP	16415				93-11/02	Calcination of High Moisture Content Phosphate Rock
1899	MOROCCO	IP	16802				94-12/09	Beneficiation of Phosphate Rock
1948	MOROCCO	IP	17455				96-09/28	Pier-Supported Refractory Constriction Element
1954	MOROCCO	IP	17826				97-09/28	Fluidized Bed Drying Process for Porous Materials

16-Apr-87

CASE NUMBER	COUNTRY	CLASS	PATENT NUMBER	ISSUE DATE	APPLICATION NUMBER	FILE DATE	EXPIRE DATE	TITLE
1942	NETHERLANDS	TP			7606210			Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	NETHERLANDS	TP	7606003					Heat Exchanger for Fluid Bad Reactor
1945	NETHERLANDS	FL			7706125			System & Method for Electric Dewatering of Solids Suspen.
1967	NETHERLANDS	CE			7915046			Multiple Hydrocyclone Device
1973	NETHERLANDS	TP			7811613			Fluid Bed Comb. Predrying of Moist Feed Using Bed Sand
1976	NETHERLANDS	BB	C005650				95-05/23	Flow Distributor for Fluid Bed Biological Reactor
1978	NETHERLANDS	EK			7901729			Electrically Augmented Vacuum Filtration
1985	NETHERLANDS	KD			8005363	80-09/26		Low Profile Fluid Bed Heater or Vaporizer
2003	NETHERLANDS	EK			8200918	82-03/05		Solid Polymeric Electrolyte
2032	NETHERLANDS	IP			8602850	86-11/11		Barley Starch Process
							93-01/06	Refractory Construction Dome for Fluidized Bed Reactor
1950	NEW ZEAL	TP	182998				94-05/29	Aspirating Feed Funnel for Fluidized Reactor
1958	NEW ZEAL	TP	187394				79-09/26 95-09/26	Flocculant Distributor Means for Feedwell
1981	NEW ZEAL	SE	191673				80-09/15 96-09/15	Low Profile Fluid Bed Heater or Vaporizer
1985	NEW ZEAL	KD			194953		89-03/04	Electrode Assembly with Ion Exchange Membrane
2001	NEW ZEAL	EK	199907					Solid Polymeric Electrolyte
2003	NEW ZEAL	EK			199873	82-03/01		
2011	NEW ZEAL	SE	205856				99-10/24	Rake Lifting Means for Sedimentation Apparatus
2012	NEW ZEAL	FL	208061		208061		00-5/4	Vacuum Expressor Device for a Rotary Drum Filter
2022	NEW ZEAL	FL			211622	85-03/13		Filtrate Discharge System Filter
2041	NEW ZEAL	FL	211423	87-2/20	211423	85-03/13		Pressure Filter
1880	NORWAY	FL	129662				91-07/12	Pressure Filter Having Depending Tubular Filter Elements
1955	NORWAY	KD	774297					Fluidized Bed Process Heater
1976	NORWAY	BS	153216				99-05/02	Flow Distributor for Fluid Bed Biological Reactor
2022	NORWAY	FL			851363	85-04/02		Filtrate Discharge System Filter
2024	NORWAY	EK			863701	86-09/16		Method & Apparatus for Determining the Zeta Potential of Colloidal
2038	NORWAY	EK			863702	86-09/16		Method/Apparatus for measuring the Unsteady Sedmt potential colloidal
2041	NORWAY	FL			851362	85-04/02		Pressure Filter
1980	PANAMA	DS	127153					Apparatus for Dissolution of Gases in Liquid

16-Apr-87

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1981	PERU	SE	2173			79-10/10	90-09/30	Flocculant Distributor Means for Feedwell
1986	PERU	IP			037807	80-09/17		Desilication in Alkaline Pulp Processess
2009	PERU	SE	3291					Flotation Separation Apparatus and Method
2012	PERU	FL	03622				96-01/21	Vacuum Expressor Device for a Rotary Drum Filter
1961	PHILIPHS	CE	14943				99-02/02	Nozzle Type Centrif. Machine w/Improvd. Slurry Pumpg Chamber
1967	PHILIPHS	CE			22816			Multiple Hydrocyclone Device
1986	PHILIPHS	IP			24619	80-09/24		Desilication in Alkaline Pulp Processess
1985	PORTUGAL	EK	72285				96-11/10	Electrode Assembly
2017	PORTUGAL	FL			78626			Vacuum Expressor Device for a Rotary Drum Filter
2021	PORTUGAL	FL			80219	85-04/06		Filtrate Discharge System Filter
2041	PORTUGAL	FL			80218	85-04/06		Pressure Filter
1976	SINGAPRE	BS	21483					Flow Distributor for Fluid Bed Biological Reactor
1980	SINGAPRE	BS	66683				00-09/01	Apparatus for Dissolution of Gases in Liquid
1860	SPAIN	TP	452027				97-06/20	Dilute Phase Waste Incinerator
1861	SPAIN	TP	449491				97-10/05	Fluid Bed Incinerator Feed System
1941	SPAIN	FL	447555				97-07/11	Endless Filter Belt
1942	SPAIN	TP	449169				97-09/13	Heat Transfer Element and Tuyere for Fluidized Bed Reactor
1943	SPAIN	TP	449170				97-09/13	Heat Exchanger for Fluid Bed Reactor
1946	SPAIN	CE	451435				97-10/26	Nozzle Type Centrifuge
1947	SPAIN	SE	453192				97-09/05	Sedimentation Tank with Rotary Yieldable Rake Arm Struct.
1950	SPAIN	TP	456405				98-10/20	Refractory Construction Dome for Fluidized Bed Reactor
1952	SPAIN	TP	460808				98-02/25	Process for Recovy of Alumina-Cryolite waste in Alum.prod.
1954	SPAIN	TP	462754				98-11/20	Fluidized Bed Drying Process for Porous Materials
1955	SPAIN	CO	465326				98-07/20	Fluidized Bed Process Heater
1958	SPAIN	TP	471359				98-12/20	Aspirating Feed Funnel for Fluidized Reactor
1962	SPAIN	TP	465673				98-07/20	Incin. of Lime-Conditioned Sewage Sludge w/High Sulf.Fuel
1966	SPAIN	TP	470156				99-01/05	Transfer Pipe System
2003	SPAIN	EK	51016019				02-11/02	Solid Polymeric Electrolyte
2009	SPAIN	SE	521694				04-06/20	Flotation Separation Apparatus and Method
2023	SPAIN	TP	541606	86-10/02	541606	85-03/27		Method for Oxidation of Flue Gas Desulfzatn Absorbnt & Prodct Produced