

Form PTO-1595

U.S. DEPARTMENT OF COMMERCE

OMB No. 6651-027 (exp. 5/31/2002) Tab settings ⇔ ⇒ ⇒ To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Hudson Products Corporation, a Texas corporation T. J.	(Rev. 03/01) 1021	07564 U.S. Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Hudson Products Corporation, a Texas corporation 2. Name and address of receiving party(ies) Name: Comerica Bank, as Agent Internal Address: Internal Address: Internal Address: Internal Address: One Detroit Center, 6th Floor City: Detroit State: MI Zip: 48275-3280 Additional name(s) & address(es) attached? Yes V No 4. Application number(s) or patent number(s): If this document is being filled together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/138867 B. Patent No.(s) 4657070; 4634341; 4720244; 5145000; 5156786; 5213476 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Angela Alvarez Sujek Internal Address: Internal Address: Internal Address: Internal Address: Internal Address: One Detroit Center, 6th Floor City: Detroit State: MI Zip: 48275-3280 Additional name(s) & address(es) attached? Yes V No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Angela Alvarez Sujek Internal Address: Internal Addre	OMB No. 0651-0027 (exp. 5/31/2002)	
1. Name of conveying party(les): Hudson Products Corporation a Texas corporation 1. 19.00 Additional name(s) of conveying party(les) attached? Yes \(\text{None} \) No 3. Nature of conveyance: Assignment Other Other City: Detroit Asplication number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/138867 B. Patent No.(s) 4657070; 4634341; 4720244; 5145000; 5156786; 5213476 Additional numbers attached? Yes \(\text{V} \) Yes \(\text{None:} \) 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Angela Alvarez Sujek Internal Address: Bodman, Longley & Dahling LLP Internal Address: 110 Miller, Suite 300 City: Ann Arbor State: MI Zip: 48104 Do Not Use THIS SPACE		Please record the attached original documents or convithered
Name: Comerica Bank, as Agent Internal Address: Name: Comerica Bank, as Agent		
Additional name(s) of conveying party(ies) attached?		_ , _ , ,
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other City: Detroit State: Mi Zip: 48275-3280 Additional name(s) & address(e) attached? Yes No 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/138867 B. Patent No.(s) 4657070; 4634341; 4720244; 5145000; 5156786; 5213476 Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Angela Alvarez Sujek Internal Address: Bodman, Longley & Dahling LLP Internal Address: 110 Miller, Suite 300 City: Ann Arbor State: Mi Zip: 48104 DO NOT USE THIS SPACE	l	
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Assignment Merger Security Agreement Change of Name Other 7/10/02 Execution Date: Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/138867 Additional numbers attached? V Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Angela Alvarez Sujek Internal Address: Bodman, Longley & Dahling LLP Internal Address: 110 Miller, Suite 300 City: Detroit State: MI Zip: 48275-3280 Additional name(s) & address(es) attached? I Yes I No 6. Total name execution date of the application is: B. Patent No.(s) 4657070; 4634341; 4720244; 5145000; 5156786; 5213476 6. Total number of applications and patents involved: 22 7. Total fee (37 CFR 3.41) \$1,280.00 Authorized to be charged to deposit account 8. Deposit account number: 02-2880 DO NOT USE THIS SPACE		m -5 3
Street Address: One Detroit Center, 6th Floor 3 Other		
Other		Street Address: One Detroit Center, 6th Floor
Execution Date:	Security AgreementChange of Name	<u> </u>
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Internal Address: Bodman, Longley & Dahling LLP Authorized to be charged to deposit account 8. Deposit account number: O2-2880 City: Ann Arbor State: MI Zip: 48104 DO NOT USE THIS SPACE		
Authorized to be charged to deposit account	Name:Angela Alvarez Sujek	7. Total fee (37 CFR 3.41)\$
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Street Address: 110 Miller, Suite 300 City: Ann Arbor State: MI Zip: 48104 DO NOT USE THIS SPACE	michiai / daress	Authorized to be charged to deposit account
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DO NOT USE THIS SPACE		
	City: Ann Arbor State: MI Zip: 48104	
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Angela Alvarez Sujek Name of Person Signing Date July 19, 2002 Date	Angela Alvarez Sujek	ngle War or Super July 19, 2002
Name of Person Signing Signature Date	Name of Person Signing	Signature Date
Total number of pages including cover sheet, attachments, and documents: 25		er sheet, attachments, and documents: 25

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

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

07/24/2002 AAHHED1 00000233 10138867

1280.00 DP

Recordation Form Cover Sheet Continuation

Hudson Products Corporation

Additional Patent Numbers

AnnArbor 49817_1

AGREEMENT (Patent)

THIS AGREEMENT (PATENT) (this "Agreement"), dated as of July 10, 2002, between Hudson Products Corporation, a Texas corporation ("Company" and sometimes a "Debtor"), and Comerica Bank in its capacity as agent for the Banks referred to below.

WITNESSETH

- A. WHEREAS, pursuant to that certain Credit Agreement dated as of July 10, 2002 (as amended or otherwise modified from time to time, the "Credit Agreement"), among the Borrowers, each of the financial institutions party thereto (collectively, the "Banks") and Secured Party, as Agent for the Banks, the Banks have agreed, subject to the satisfaction of certain terms and conditions, to make Advances to Borrowers and to provide for the issuance of Letters of Credit for the account of Borrowers, individually, or jointly and severally with certain of the other Account Parties (as such terms are defined in the Credit Agreement), as provided therein; and
- B. WHEREAS, in connection with the Credit Agreement, the Debtors have executed and delivered a Security Agreement, dated as of the date hereof (as amended or otherwise modified from time to time, the "Security Agreement"); and
- C. WHEREAS, as a condition precedent to the making of the initial Advances under the Credit Agreement, the Debtors are required to execute and deliver this Agreement and to further confirm the grant to the Secured Party for the benefit of the Banks a continuing security interest in all of the Patent Collateral (as defined below) to secure all Indebtedness.
- NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, and in order to induce the Banks to make Advances (including the initial Advance) to the Borrowers pursuant to the Credit Agreement, the Debtors agrees, for the benefit of the Banks, as follows:
- SECTION 1. <u>Definitions</u>. Unless otherwise defined herein or the context otherwise requires, terms used in this Agreement, including its preamble and recitals, have the meanings provided in the Security Agreement.
- SECTION 2. <u>Grant of Security Interest</u>. For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, to secure all of the Indebtedness, each of the Debtors does hereby mortgage, pledge and hypothecate to the Secured Party for the benefit of the Banks, and grant to the Secured Party for the benefit of the Banks a security interest in, all of the following property (the "<u>Patent Collateral</u>"), whether now owned or hereafter acquired or existing:
 - (a) all letters patent and applications for letters patent throughout the world, including all patent applications in preparation for filing anywhere in the world and

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including each patent and patent application referred to in Item A of Attachment 1 hereto;

- (b) all patent licenses, including each patent license referred to in Item B of Attachment 1 hereto;
- (c) all reissues, divisions, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the items described in the foregoing clauses (a) and (b); and
- (d) all proceeds of, and rights associated with, the foregoing (including license royalties and proceed of infringement suits), the right to sue third parties for past, present or future infringements of any patent or patent application, including any patent or patent application referred to in Item A of Attachment 1 hereto, and for breach or enforcement of any patent license, including any patent license referred to in Item B of Attachment 1 hereto, and all rights corresponding thereto throughout the world.

SECTION 3. Security Agreement. This Agreement has been executed and delivered by the Debtors for the purpose of registering the security interest of the Secured Party and the Banks in the Patent Collateral with the United States Patent and Trademark Office and corresponding offices in other countries of the world. The security interest granted hereby has been granted as a supplement to, and not in limitation of, the security interest granted to the Secured Party and the Banks under the Security Agreement. The Security Agreement (and all rights and remedies of the Secured Party and the Banks thereunder) shall remain in full force and effect in accordance with its terms.

SECTION 4. Release of Security Interest. Upon payment in full of all Indebtedness (other than with respect to contingent indemnification obligations to the extent no claim has been asserted) and commitment (whether optional or obligatory) to extend any credit under the Credit Agreement has been terminated, the Secured Party shall, at the Debtors' expense, execute and deliver to the Debtors all instruments and other documents as may be necessary or proper to release the lien on and security interest in the Patent Collateral which has been granted hereunder.

SECTION 5. <u>Acknowledgment</u>. Each of the Debtors does hereby further acknowledge and affirm that the rights and remedies of the Secured Party for the benefit of the Banks with respect to the security interest in the Patent Collateral granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which (including the remedies provided for therein) are incorporated by reference herein as if fully set forth herein.

SECTION 6. <u>Loan Documents</u>, etc. This Agreement is a Loan Document executed pursuant to the Credit Agreement and shall (unless otherwise expressly indicated herein) be construed, administered and applied in accordance with the terms and provisions of the Credit Agreement.

SECTION 7. Counterparts. This Agreement may be executed by the parties hereto in

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Agreement.

SECTION 7. <u>Counterparts</u>. This Agreement may be executed by the parties hereto in several counterparts, each of which shall be deemed to be an original and all of which shall constitute together but one and the same agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and year first above written.

<u>DEBTORS</u> :	
HUDSON P	RODUCTS CORPORATION
Ву:	
Its: Presi	pent
Address:	Beasley, TX 77417 Larry W. Gies, Tr.
	Beasley, TX 77417
Attention:	Larry W. Gles, Tr.
Facsimile No	.:
COMERICA	BANK, as Agent for the Banks
By:	
Name: Andre	w W. Roy
Title: Vice Pr	esident
Address:	One Detroit Center 6th Floor
A44a44ia4.34	Detroit, MI 48275-3280
	etropolitan Loan Division F/Group
Manager	

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Facsimile No: (313) 222-3503

several counterparts, each of which shall be deemed to be an original and all of which shall constitute together but one and the same agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and year first above written.

DEBTORS:

HUDSON PRODUCTS CORPORATION

Ву:	
Its:	
Address:	
Attention:	
Attention:Facsimile No.:	

COMERICA BANK, as Agent for the Banks

Name: Andrew W. Roy
Title: Vice President

Address:

One Detroit Center

6th Floor

Detroit, MI 48275-3280

Attention: Metropolitan Loan Division F/Group

Manager

Facsimile No: (313) 222-3503

Item A. Patents

Patents Granted

Country	Patent	Patent Number	Issue Date	Status
United States	0202 Air Cooled Vapor Condensers	4657070	14-Apr-1987	Granted
United States	0205 Axial Flow Fans	4634341	06-Jan-1987	Granted
United States	0215 Fan Blade for an Axial Flow Fan and Method of Forming Same	4720244	19-Jan-1988	Granted
United States	5071 Steam Condensate Storage Tank with Non-Freezing Feature	5145000	08-Sep-1992	Granted
United States	5079 Method for Manufacturing Fan Blades	5156786	20-Oct-1992	Granted
United States	5245 Fan Blade	5213476	25-May-1993	Granted
United States	5256 Leading Edge Protection for Fan Blade	5165859	24-Nov-1992	Granted
United States	5288 Leading Edge Protection for Fan Blade	5210946	18-May-1993	Granted
United States	5329 Extruded Aluminum Fan Blade	5328330	12-Jul-1994	Granted
United States	5330 Fan Blade Width Extender	5328329	12-Jul-1994	Granted
United States	5366 Static Efficiency Enhancer for Axial Fans	5328335	12-Jul-1994	Granted
United States	5567 Cover Plate Header Tongue and Groove Grinding/Polishing Machine	5512011	30-Apr-1996	Granted
United States	5575 Elongated Heat Exchanger Tubes Having	5511613	30-Apr-1996	Granted

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Patent	Patent Number	Issue Date	Status
Internal Stiffening			
Structure			
5650 Steam	5765629	16-Jun-1998	Granted
Condensing			
Apparatus with			
Freeze-Protected			
Vent Condenser			
5693 Steam	5653281	05-Aug-1997	Granted
Condensing			
Module with			
Integral, Stacked			
Vent Condenser			
5742 Method of	5741450	21-Apr-1998	Granted
and Apparatus for		_	
Fan Blade			
	5766320	16-Jun-1998	Granted
	5694685	09-Dec-1997	Granted
	6019555	01-Feb-2000	Granted
_			
_			
	6241009	05-Jun-2001	Granted
	5947111	07-Sep-1999	Granted
	ļ		
	6234210	22-May-2001	Granted
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1			
Į.			
	6267358	18-Jun-1999	Granted
)			
Pressure Drop		i	
	Internal Stiffening Structure 5650 Steam Condensing Apparatus with Freeze-Protected Vent Condenser 5693 Steam Condensing Module with Integral, Stacked Vent Condenser 5742 Method of and Apparatus for Molding a Hollow	Internal Stiffening Structure 5650 Steam Condensing Apparatus with Freeze-Protected Vent Condenser 5693 Steam Condensing Module with Integral, Stacked Vent Condenser 5742 Method of and Apparatus for Molding a Hollow Fan Blade 5835 Integral Deaerator for Heat Pipe Steam Condenser 5880 Method and Apparatus for Treating Header Plug Gasket Face 5913 Debur Tool for Simultaneously Removing Burrs from and Chamfering a Hole in a Workpiece 5935 Integrated Heat Pipe Vent Condenser 5940 Apparatus for Controlled Heating or Process Fluids 6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	Internal Stiffening Structure 5650 Steam Condensing Apparatus with Freeze-Protected Vent Condenser 5693 Steam Condensing Module with Integral, Stacked Vent Condenser 5742 Method of and Apparatus for Molding a Hollow Fan Blade 5835 Integral Deaerator for Heat Pipe Steam Condenser 5880 Method and Apparatus for Treating Header Plug Gasket Face 5913 Debur Tool for Simultaneously Removing Burrs from and Chamfering a Hole in a Workpiece 5935 Integrated Heat Pipe Vent Condenser 5940 Apparatus for Controlled Heating or Process Fluids 6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing

Country	Patent	Patent Number	Issue Date	Status
	Velocity			
	Absorbers with			
	Straight Tanks			
United States	5984 Compact Gas	6004385	21-Dec-1999	Granted
<u></u>	Liquid Separation			
	System with Real-			
	Time Performance			
United States	6007 Seal Joint for	6096121	01-Aug-2000	Granted
0	Multiple Internal			
	Separator			
	Arrangement			
United States	6008 Seal Joint	6311986	06-Nov-2001	Granted
Sinted States	Between Internals			
	and Pressure			
	Vessel Inlet			
United States	5704 Heat Pipe	5653284	05-Aug-1997	Granted
Omica States	Heat Exchanger			
	Tube Sheet			
United States	5722 Passive	5579830	03-Dec-1996	Granted
Office States	Cooling of	3379030	05 200 1330	
	Enclosures Using			
	Heat Pipes			
United States	5084 Steam	5159974	03-Nov-1992	Granted
Officed States	Condenser with	313771	03 1101 1332	Granicoa
	Articulated			
	Electrically			
	Heated Blankets or			
	Panels			
United States	5715 Flexible	5579828	03-Dec-1996	Granted
Office States	Insert for Heat	3317020	05 Dec 1550	Granted
	Pipe Freeze			
	Protection			
United States	5328 Heat Pipe	5379831	10-Jan-1995	Granted
Office States	Heat Exchanger	3317031	10 3411 1993	Gruntou
Spain	0197 Axial Flow	509213	07-Oct-1982	Granted
Spain	and Blades	307213	07 001 1302	Granted
ļ	Therefor			
Australia	0199 Air Cooled	551555	13-Oct-1986	Granted
Austrana	Steam Condenser	331333	15-001-1700	Granted
	Control			
Canada	0199 Air Cooled	1209351	12-Aug-1986	Granted
Canada	Steam Condenser	1209331	12-Mug-1900	Jianica
	Control			
Cormony	0199 Air Cooled	3320712	08-Jun-1995	Granted
Germany	Steam Condenser	3320/12	00-juii-1993	Granicu
	J Steam Condenser	1		1

Country	Patent	Patent Number	Issue Date	Status
	Control			
France	0199 Air Cooled	8310756	13-Jul-1989	Granted
	Steam Condenser			
	Control			
United	0199 Air Cooled	2135206	17-Sep-1986	Granted
Kingdom	Steam Condenser			
	Control			
Italy	0199 Air Cooled	1171816	10-Jun-1987	Granted
	Steam Condenser			
	Control			
Japan	0199 Air Cooled	1803751	26-Nov-1993	Granted
	Steam Condenser		•	
	Control			
Mexico	0199 Air Cooled	157210	03-Nov-1988	Granted
	Steam Condenser			
	Control			
South Africa	0199 Air Cooled	83/3514	30-May-1984	Granted
	Steam Condenser			
	Control			
European	0215 Fan Blade	EP0292086	31-Jul-1991	Granted
Patent	for an Axial Flow			
Convention ¹	Fan and Method of			
	Forming Same			
Australia	0215 Fan Blade	594612	23-Jul-1990	Granted
	for an Axial Flow			
	Fan and Method of			
- 1 •	Forming Same	ED000000	21 T 1 1001	C 1
Belgium	0215 Fan Blade	EP0292086	31-Jul-1991	Granted
	for an Axial Flow			
	Fan and Method of			
D '1	Forming Same	D10000120	27 Ava 1001	Granted
Brazil	0215 Fan Blade	PI8800139	27-Aug-1991	Granted
	for an Axial Flow Fan and Method of			
Canada	Forming Same 0215 Fan Blade	1251183	14-Mar-1989	Granted
Callaga	for an Axial Flow	1231103	17-14101-1909	Granica
	Fan and Method of			
	Forming Same			
Germany	0215 Fan Blade	P3863971.8	31-Jul-1991	Granted
Gomany	for an Axial Flow	100000771.0		
	Fan and Method of			
	1 and and interior of	<u> </u>		L

¹ EPC patent grants must be followed on by a national patent filing in order to preserve patent rights in the EU member states.

Country	Patent	Patent Number	Issue Date	Status
	Forming Same			
United	0215 Fan Blade	EP0292086	31-Jul-1991	Granted
Kingdom	for an Axial Flow			
	Fan and Method of			
	Forming Same			†
Japan	0215 Fan Blade	1804933	26-Nov-1993	Granted
v ap	for an Axial Flow			1
•	Fan and Method of			
	Forming Same			
Liechtenstein	0215 Fan Blade	EP0292086	31-Jul-1991	Granted
Dicontonioni.	for an Axial Flow			
	Fan and Method of			
	Forming Same			
Mexico	0215 Fan Blade	161128	03-Aug-1990	Granted
MICAICO	for an Axial Flow	101120	05 7 tug 1990	Granted
	Fan and Method of			
	Forming Same			
Netherlands	0215 Fan Blade	EP0292086	31-Jul-1991	Granted
Neuterlands	for an Axial Flow	L1 0272000	31-3u1-1991	Granted
	Fan and Method of			
	Forming Same			
Australia	5079 Method for	634377	11-Jun-1993	Granted
Australia		034377	11-Juii-1993	Granted
	Manufacturing Fan Blades			
Belgium	5079 Method for	EP0456169	29-Nov-1995	Granted
Deigium	!	EF0430109	29-1NUV-1993	Granieu
	Manufacturing Fan Blades			
Brazil	5079 Method for	PI9102099-9	28-Dec-1999	Granted
Brazii		P19102099-9	28-Dec-1999	Granted
	Manufacturing Fan Blades			
<u> </u>		0042747	27 I 1005	Constal
Canada	5079 Method for	2043747	27-Jun-1995	Granted
	Manufacturing			
CI.	Fan Blades	26242	00 E 1 1007	
China	5079 Method for	36343	08-Feb-1997	Granted
	Manufacturing			
	Fan Blades		1005	
Germany	5079 Method for	P69114926	29-Nov-1995	Granted
	Manufacturing			
	Fan Blades			
European	5079 Method for	EP0456169	29-Nov-1995	Granted
Patent	Manufacturing)		
Convention	Fan Blades			
France	5079 Method for	0465169	28-Jun-1991	Granted
	Manufacturing			
	Fan Blades		<u> </u>	

Country	Patent	Patent Number	Issue Date	Status
United	5079 Method for	EP0456169	29-Nov-1995	Granted
Kingdom	Manufacturing			
•	Fan Blades			
Indonesia	5079 Method for	ID0000826	24-Jul-1996	Granted
	Manufacturing			
	Fan Blades			
Italy	5079 Method for	EP0456169	29-Nov-1995	Granted
	Manufacturing			
	Fan Blades			
Japan	5079 Method for	2016692	19-Feb-1996	Granted
-	Manufacturing			
	Fan Blades			
Liechtenstein	5079 Method for	EP0456169	29-Nov-1995	Granted
	Manufacturing			
	Fan Blades			
Mexico	5079 Method for	173885	07-Apr-1994	Granted
1,10,1100	Manufacturing	1,,555		
	Fan Blades			
Netherlands	5079 Method for	EP0456169	29-Nov-1995	Granted
recticitatios	Manufacturing	Lionsolos	25 1107 1555	Granica
	Fan Blades			
South Africa	5079 Method for	91/3305	26-Feb-1992	Granted
South Time	Manufacturing	71,5505	201001222	
	Fan Blades			
Australia	5256 Leading	647330	30-Jun-1994	Granted
1 tusti aii a	Edge Protection	017330	Jo Juni 1991	Granica
	for Fan Blade			
Brazil	5256 Leading	PI9302423-1	29-Sep-1998	Granted
Diazii	Edge Protection	117502425-1	2)-5cp-1))0	Granted
	for Fan Blade			
Canada	5256 Leading	2090583	18-Nov-1997	Granted
Canada	Edge Protection	2070303	10-1404-1997	Granted
	for Fan Blade			
European	5256 Leading	EP0576117	21-Feb-1996	Granted
Patent	Edge Protection	1210370117	21-1-60-1790	Granicu
Convention	for Fan Blade			
	5256 Leading	69301582.9	21-Feb-1996	Granted
Germany	Edge Protection	09301302.9	21-1.60-1990	Granica
	for Fan Blade			
United		EP0576117	21-Feb-1996	Granted
	5256 Leading	EF03/011/	21-1,60-1330	Granteu
Kingdom	Edge Protection for Fan Blade			
Indonesia		ID0000740	25-Jun-1996	Granted
muonesia	5256 Leading	100000/40	23-Juii-1990	Granted
	Edge Protection for Fan Blade	,		
	101 ran blade		<u> </u>	1

Country	Patent	Patent Number	Issue Date	Status
India	5256 Leading	178703	29-Jan-1998	Granted
	Edge Protection			
	for Fan Blade			
Iran	5256 Leading	24962	20-Jan-1993	Granted
	Edge Protection			
	for Fan Blade			
Italy	5256 Leading	0576117	21-Feb-1996	Granted
	Edge Protection			
	for Fan Blade			
Korea	5256 Leading	118296	16-Jul-1997	Granted
	Edge Protection			
	for Fan Blade			
Mexico	5256 Leading	182338	08-Aug-1996	Granted
	Edge Protection			
	for Fan Blade			
Austria	5329 Extruded	EP0638726	13-May-1998	Granted
11450114	Aluminum Fan	21 0000, 20	15 1.14	
	Blade			
Australia	5329 Extruded	660876	23-Oct-1995	Granted
rastrana	Aluminum Fan			
	Blade			
Azerbaijan	5329 Extruded	I990117	21-Aug-1999	Granted
1 12010 41 1 411	Aluminum Fan			
	Blade			
Belgium	5329 Extruded	EP0638726	13-May-1998	Granted
Dugiani	Aluminum Fan	21 0030,20	15 1.14) 1550	Grantoa
	Blade			
Brazil	5329 Extruded	PI9402980-6	29-Dec-1998	Granted
	Aluminum Fan	119.02900	23 200 1330	
	Blade			
Canada	5329 Extruded	2127077	08-Feb-2000	Granted
Canada	Aluminum Fan	2127077	00 1 00 2000	Grantea
	Blade			
Chile	5329 Extruded	39701	07-Sep-1998	Granted
CIIIC	Aluminum Fan	33701	07-БСР-1990	Granted
	Blade			
China	5329 Extruded	94107816.7	28-Apr-2000	Granted
Cimia	Aluminum Fan	74107610.7	20-Apr-2000	Granted
	Blade			
Germany	5329 Extruded	69410186.9	13-May-1998	Granted
Commany	Aluminum Fan	05-110100.5	15 171dy-1770	Janea
	Blade			
Denmark	5329 Extruded	EP0638726	13-May-1998	Granted
Dominark.	Aluminum Fan	13.0030720	15 May 1776	Jimited
				,

Country	Patent	Patent Number	Issue Date	Status
European	5329 Extruded	EP0638726	13-May-1998	Granted
Patent	Aluminum Fan			
Convention	Blade			
France	5329 Extruded	EP0638726	13-May-1998	Granted
	Aluminum Fan			
	Blade			
United	5329 Extruded	EP0638726	13-May-1998	Granted
Kingdom	Aluminum Fan			
_	Blade			
Indonesia	5329 Extruded	ID0003325	04-Dec-1998	Granted
	Aluminum Fan		1	
	Blade			
Italy	5329 Extruded	EP0638726	13-May-1998	Granted
•	Aluminum Fan			
	Blade			
Korea	5329 Extruded	133098	16-Dec-1997	Granted
	Aluminum Fan			
	Blade			
Mexico	5329 Extruded	188300	18-Mar-1998	Granted
	Aluminum Fan			
	Blade			
Malaysia	5329 Extruded	MY-110870-A	31-May-1999	Granted
_ · _ · · · · · · · · · · · · · · · · ·	Aluminum Fan			
	Blade			
Netherlands	5329 Extruded	EP0638726	13-May-1998	Granted
	Aluminum Fan			
	Blade			
Romania	5329 Extruded	112016	31-Mar-1997	Granted
	Aluminum Fan			
	Blade			
Thailand	5329 Extruded	7470	24-Dec-1997	Granted
111111111111111111111111111111111111111	Aluminum Fan			
	Blade			
Taiwan	5329 Extruded	091157	27-Mar-1998	Granted
2 442 11 4424	Aluminum Fan			
	Blade			
Venezuela	5329 Extruded	835/94 ²	14-Jun-1994	Granted
	Aluminum Fan			
	Blade			
South Africa	5329 Extruded	94/4230	26-Apr-1995	Granted
	Aluminum Fan			
	Blade			

² Patent Number not yet available; when certificate of registration is received, will provide patent number.

Country	Patent	Patent Number	Issue Date	Status
Canada	5575 Elongated	2164930	17-Nov-1998	Granted
	Heat Exchanger			
	Tubes Having			
	Internal Stiffening			Ì
	Structure			
Australia	5650 Steam	712121	10-Feb-2000	Granted
	Condensing			
-	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
Canada	5650 Steam	2202076	27-Jun-2000	Granted
	Condensing			
	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
Korea	5650 Steam	203196	29-Mar-1997	Granted
	Condensing			
	Apparatus with			
	Freeze-Protected		İ	
	Vent Condenser			
Mexico	5650 Steam	198130	17-Aug-2000	Granted
IVIONICO	Condensing	150150	17 1145 2000	Gruntou
	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
Taiwan	5650 Steam	093621	22-Jul-1998	Granted
1 41 ** 411	Condensing	093021	22 341 1990	Granted
	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
Venezuela	5650 Steam	$615/97^{\frac{3}{2}}$	07-Apr-1997	Granted
VCIIOZUCIA	Condensing	013/7/	07-Api-1557	Granted
	Apparatus with			
	Freeze-Protected		1	
	Vent Condenser			:
South Africa	5650 Steam	97/2834	25-Mar-1998	Granted
South 1 timea	Condensing	7/12054	25-War-1990	Granted
	Apparatus with			
	Freeze-Protected			
	Vent Condenser	1		
Australia	5693 Steam	679154	09-Oct-1997	Granted
Australia	Condensing	0/9134	09-001-199/	Tanted
	Module with		ļ	
	Tylodule With		1	<u> </u>

³ Patent Number not available; when certificate of registration is received, will provide patent number.

Country	Patent	Patent Number	Issue Date	Status
	Integral, Stacked			
	Vent Condenser			
Brazil	5693 Steam	PI9606145-6	14-Nov-2000	Granted
	Condensing			
	Module with			
	Integral, Stacked			
	Vent Condenser			
Canada .	5693 Steam	2191399	14-Sep-1999	Granted
:	Condensing			
	Module with			
	Integral, Stacked			
	Vent Condenser			
Indonesia	5693 Steam	ID0005926	31-Jan-2001	Granted
	Condensing			Ì
	Module with			
	Integral, Stacked			
•	Vent Condenser			[
Japan	5693 Steam	3057018	14-Apr-2000	Granted
•	Condensing		-	
	Module with			
	Integral, Stacked			
	Vent Condenser			
Korea	5693 Steam	194853	10-Feb-1999	Granted
	Condensing			
	Module with			
	Integral, Stacked			
	Vent Condenser			
Mexico	5693 Steam	196420	12-May-2000	Granted
	Condensing		1	
	Module with			
	Integral, Stacked			
	Vent Condenser			
Singapore	5693 Steam	44993	28-Sep-1998	Granted
• •	Condensing		•	
	Module with			:
	Integral, Stacked			
	Vent Condenser			
Taiwan	5693 Steam	094199	26-Aug-1998	Granted
	Condensing			
	Module with			
	Integral, Stacked			
	Vent Condenser			
Venezuela	5693 Steam	2194-96	17-Dec-1996	Granted
	Condensing		1	
	Module with			

Country	Patent	Patent Number	Issue Date	Status
	Integral, Stacked			
	Vent Condenser	<u> </u>		
Australia	5742 Method of	681564	18-Dec-1997	Granted
	and Apparatus for			
	Molding a Hollow			
	Fan Blade			
Canada	5742 Method of	2193328	18-Dec-1996	Granted
•	and Apparatus for			
	Molding a Hollow		j	
	Fan Blade			
China	5742 Method of	ZL 97102288	03-Feb-2001	Granted
	and Apparatus for			
	Molding a Hollow			
	Fan Blade			
Indonesia	5742 Method of	0006057	16-Mar-2001	Granted
	and Apparatus for]	
	Molding a Hollow			
	Fan Blade			
Japan	5742 Method of	3222079	17-Aug-2001	Granted
	and Apparatus for		ļ	
	Molding a Hollow			
	Fan Blade			
Korea	5742 Method of	211352	03-May-1999	Granted
	and Apparatus for			
	Molding a Hollow		1	
	Fan Blade			
Mexico	5742 Method of	197434	11-Jul-2000	Granted
	and Apparatus for		j	
	Molding a Hollow			
	Fan Blade			
Singapore	5742 Method of	66807	19-Nov-2001	Granted
	and Apparatus for	}		
	Molding a Hollow			
	Fan Blade			
Thailand	5742 Method of	10874	23-Aug-2001	Granted
	and Apparatus for			
	Molding a Hollow			
—	Fan Blade	105101		
Taiwan	5742 Method of	197434	11-Jul-2000	Granted
	and Apparatus for			
	Molding a Hollow			
T 7	Fan Blade	50005	14 7 1007	
Venezuela	5742 Method of	58205	14-Jan-1997	Granted
	and Apparatus for			
	Molding a Hollow		<u> </u>	<u> </u>

Country	Patent	Patent Number	Issue Date	Status
	Fan Blade			
United	5940 Apparatus	2336900	21-Nov-2001	Granted
Kingdom	for Controlled			
_	Heating or Process			
	Fluids			
Indonesia	5940 Apparatus	ID0006272	03-May-2001	Granted
	for Controlled			
•	Heating or Process			
	Fluids			
Japan	5940 Apparatus	2989599	08-Oct-1999	Granted
	for Controlled			
	Heating or Process]		
	Fluids			1
Canada	6209 System for	1264443	16-Jan-1990	Granted
	Separating Oil-			
	Water Emulsion			

Pending or Published Patent Applications

Country	Patent	Application Number	Filing Date	Status
United States	7037 Heat Shield	10/138867	03-May-2002	Pending
Kuwait	5256 Leading Edge Protection	PA77/92	22-Nov-1992	Pending
	for Fan Blade			
Saudi Arabia	5256 Leading Edge Protection for Fan Blade	93130443	30-Mar-1993	Pending
Argentina	5256 Leading Edge Protection for Fan Blade	328864	20-Jul-1994	Pending
Czech Republic	5256 Leading Edge Protection for Fan Blade	PV1689-94	13-Jul-1994	Pending
Algeria	5329 Extruded Aluminum Fan Blade	0092-94/1994	30-Jul-1994	Pending
Slovakia	5329 Extruded Aluminum Fan Blade	PV871-94	19-Jul-1994	Pending
Brazil	5650 Steam Condensing Apparatus with Freeze-Protected Vent Condenser	PI9701728-0	08-Apr-1997	Published
China	5650 Steam Condensing Apparatus with Freeze-Protected Vent Condenser	97110313.5	31-Mar-1997	Pending
Germany	5650 Steam Condensing Apparatus with Freeze-Protected Vent Condenser	97302365.8	07-Apr-1997	Pending
European Patent Convention	5650 Steam Condensing Apparatus with Freeze-Protected Vent Condenser	97302365.8	07-Apr-1997	Published
Spain	5650 Steam	97302365.8	07-Apr-1997	Published

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Country	Patent	Application Number	Filing Date	Status
	Condensing			
	Apparatus with			
	Freeze-Protected			ľ
	Vent Condenser			
France	5650 Steam	97302365.8	07-Apr-1997	Published
	Condensing		-	
•	Apparatus with			
	Freeze-Protected			ľ
	Vent Condenser			
United	5650 Steam	97302365.8	07-Apr-1997	Published
Kingdom	Condensing			
	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
India	5650 Steam	521CAL97	25-Mar-1997	Published
	Condensing			
	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
Italy	5650 Steam	97302365.8	07-Apr-1997	Published
y	Condensing		•	
	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
Japan	5650 Steam	09-105435	09-Apr-1997	Published
1	Condensing		•	
	Apparatus with			
	Freeze-Protected			
	Vent Condenser			
U.A.E.	5693 Steam	187/96	07-Dec-1996	Pending
	Condensing			
	Module with			
	Integral, Stacked			
	Vent Condenser			
China	5693 Steam	96123274.9	19-Dec-1996	Pending
	Condensing			
	Module with			
	Integral, Stacked			
	Vent Condenser			
Italy	5693 Steam	96308534.5	26-Nov-1996	Published
-	Condensing			
	Module with			
	Integral, Stacked			
	Vent Condenser			

Country	Patent	Application Number	Filing Date	Status
Saudi Arabia	5693 Steam Condensing Module with Integral, Stacked Vent Condenser	97170555	15-Jan-1997	Pending
Thailand	5693 Steam Condensing Module with Integral, Stacked Vent Condenser	034443	26-Nov-1996	Published
Brazil	5742 Method of and Apparatus for Molding a Hollow Fan Blade	PI9606196-0	27-Dec-1996	Published
Germany	5742 Method of and Apparatus for Molding a Hollow Fan Blade	96309127.7	13-Dec-1996	Pending
European Patent Convention	5742 Method of and Apparatus for Molding a Hollow Fan Blade	96309127.7	13-Dec-1996	Published
France	5742 Method of and Apparatus for Molding a Hollow Fan Blade	96309127.7	13-Dec-1996	Pending
United Kingdom	5742 Method of and Apparatus for Molding a Hollow Fan Blade	96309127.7	13-Dec-1996	Pending
Italy	5742 Method of and Apparatus for Molding a Hollow Fan Blade	96309127.7	13-Dec-1996	Pending
Saudi Arabia	5742 Method of and Apparatus for Molding a Hollow Fan Blade	97170571	20-Jan-1997	Pending
Mexico	5913 Debur Tool for Simultaneously Removing Burrs from and Chamfering a Hole in a Workpiece	989736	19-Nov-1998	Pending

Country	Patent	Application Number	Filing Date	Status
Korea	5913 Debur Tool for Simultaneously Removing Burrs from and Chamfering a Hole in a Workpiece	98-47446	06-Nov-1998	Pending
Venezuela	5913 Debur Tool for Simultaneously Removing Burrs from and Chamfering a Hole in a Workpiece	2580/98	16-Nov-1998	Pending
Canada	5935 Integrated Heat Pipe Vent Condenser	2320493	21-Sep-2000	Pending
Azerbaijan	5940 Apparatus for Controlled Heating or Process Fluids	20010063 ⁴	17-Mar-1999	Pending
Canada	5940 Apparatus for Controlled Heating or Process Fluids	2262990	23-Feb-1999	Pending
China	5940 Apparatus for Controlled Heating or Process Fluids	98122905.0	26-Nov-1998	Published
India	5940 Apparatus for Controlled Heating or Process Fluids	380CAL99	23-Apr-1999	Pending
Mexico	5940 Apparatus for Controlled Heating or Process Fluids	989077	30-Oct-1998	Pending
Norway	5940 Apparatus for Controlled Heating or Process Fluids	P19986075	23-Dec-1998	Pending
Russian Federation	5940 Apparatus for Controlled	99109043	27-Apr-1999	Pending

⁴ Patent Number

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Country	Patent	Application Number	Filing Date	Status
	Heating or Process Fluids			
Venezuela	5940 Apparatus for Controlled Heating or Process Fluids	283-99	18-Feb-1999	Published
Switzerland	6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	99306848.5	27-Aug-1999	Pending
China	6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	99120742.4	20-Sep-1999	Published
Germany	6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	99306848.5	27-Aug-1999	Pending
Denmark	6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	99306848.5	27-Aug-1999	Pending
European Patent Convention	6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	99306848.5	27-Aug-1999	Pending
Spain	6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	99306848.5	27-Aug-1999	Pending
France	6011 Elliptical Heat Pipe with Carbon Steel Fins and Bonded with Zinc Galvanizing	99306848.5	27-Aug-1999	Pending
United Kingdom	6011 Elliptical Heat Pipe with Carbon Steel Fins	99306848.5	27-Aug-1999	Pending

Country	Patent	Application Number	Filing Date	Status
	and Bonded with			
	Zinc Galvanizing			
Greece	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with		Ì	
	Zinc Galvanizing			
Indonesia	6011 Elliptical	P20000088	04-Feb-2000	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with		[İ
	Zinc Galvanizing			
Ireland	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
India	6011 Elliptical	1CAL2000	03-Jan-2000	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
Italy	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
Japan	6011 Elliptical	2000-25149	02-Feb-2000	Published
_	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
Korea	6011 Elliptical	99-38043	08-Sep-1999	Published
	Heat Pipe with		_	
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
Liechtenstein	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			_
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
Luxembourg	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			

Country	Patent	Application Number	Filing Date	Status
-	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
Monaco	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			
	Carbon Steel Fins			
•	and Bonded with			
	Zinc Galvanizing			
Mexico	6011 Elliptical	9911050	30-Nov-1999	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with		j	l j
	Zinc Galvanizing			
Netherlands	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing]
Portugal	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			}
	Carbon Steel Fins			Ì
	and Bonded with			
	Zinc Galvanizing			
Sweden	6011 Elliptical	99306848.5	27-Aug-1999	Pending
	Heat Pipe with			
	Carbon Steel Fins			
	and Bonded with			
	Zinc Galvanizing			
Taiwan	6011 Elliptical	88116637	28-Sep-1999	Published
	Heat Pipe with		_	
	Carbon Steel Fins			
	and Bonded with			1
	Zinc Galvanizing			

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Additional Patent Numbers

AnnArbor 49817_1

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Additional Patent Numbers

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