

05-20-2003

Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

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U.S. DEPARTMENT OF COMMERCE
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):

Bethlehem Steel Corporation

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 05/06/2003

2. Name and address of receiving party(ies)

Name: ISG Technologies Inc.

Internal Address: _____

Street Address: _____

3250 Interstate Drive, 2nd Floor

City: Richfield State: OH Zip: 44286

Additional name(s) & address(es) 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) 10/219,723;
10/367,518; 10/350,353;

B. Patent No.(s) _____

Additional numbers attached? ☒ Yes ☐ No

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

Name: Jay L. Lazar

Internal Address: _____

Street Address: ISG Bethlehem Research

116 Research Drive

City: Bethlehem State: PA Zip: 18015-4731

6. Total number of applications and patents involved: 12

7. Total fee (37 CFR 3.41).....\$ 480.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

022225

DO NOT USE THIS SPACE

9. Signature.

Jay L. Lazar, USPTO Reg. No. 37,541

Name of Person Signing

Signature

5/15/2003

Date

Total number of pages including cover sheet, attachments, and documents: 70

05/19/2003 TDI021

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10219923

01 FC:0021

480.00 CH

Documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 014070 FRAME: 0019

Page 2 of Recordation Form Cover Sheet

Continuation of Item 4, Patent Application Numbers Assigned

10/324,323

10/029,897

10/016,062

10/256,643

09/942,955

10/218,741

08/616,894

10/035,246

10/051,165

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "***Assignment***") dated as of May 6, 2003 (the "***Effective Date***"), is made by and between BETHLEHEM STEEL CORPORATION, a Delaware corporation ("***Assignor***"), and ISG TECHNOLOGIES INC., a Delaware corporation ("***Assignee***").

WHEREAS, Assignor and ISG Acquisition Inc., a Delaware corporation ("***Buyer***") are parties to that certain Asset Purchase Agreement, dated as of March 12, 2003 (the "***Purchase Agreement***"), pursuant to which Assignor has agreed to sell and Assignee has agreed to purchase the "Acquired Assets" as defined in the Purchase Agreement;

WHEREAS, except as otherwise noted on Schedule A, Assignor is the owner of the entire right, title and interest in, to and under those United States and foreign patents and patent applications listed on Schedule A or that otherwise constitute "Acquired Assets" under the Purchase Agreement, and any foreign counterparts or equivalents thereto, existing now or in the future and including, but not limited to, patents of utility, improvement or addition, utility model and appearance and industrial design patents and inventors certificates, as well as divisions, reissues, continuations (in whole or in part), renewals and extensions of any of the foregoing and any patents that may issue from any of the foregoing. (collectively, the "***Patents***"); and

WHEREAS, Assignee, at Buyer's request and direction, wishes to acquire and Assignor wishes to assign all of Assignors' right, title and interest in and to the Patents.

NOW, THEREFORE, for good and valuable consideration (including the premises and covenants set forth in the Purchase Agreement), the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

Assignor hereby irrevocably sells, assigns, transfers and sets over to Assignee all of Assignor's right, title and interest in and to the Patents, any foreign counterparts or equivalents thereto, existing now or in the future and including, but not limited to, patents of utility, improvement or addition, utility model and appearance and industrial design patents and inventors certificates, as well as divisions, reissues, continuations (in whole or in part), renewals and extensions of any of the foregoing and any patents that may issue from any of the foregoing, and including the subject matter of all claims that may be obtained therefrom, for Assignee's own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignors if this assignment and sale had not been made, together with all income, royalties, damages or payments due or payable as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present or future infringement or other unauthorized use of the Patents, with the right to sue for and collect the same for Assignee's own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives.

Assignor authorizes and requests the United States Commissioner of Patents and Trademarks and any other similar government authority to record Assignee as owner of the Patents, as described in the preceding two paragraphs, and issue any and all patents issued

thereon to Assignee, as assignee of the entire right, title and interest in, to and under the same, for the sole use and enjoyment of Assignee, its successors, assigns or other legal representatives.

Assignor shall provide to Assignee, its successors, assigns, and other legal representatives, cooperation and assistance at Assignee's request and expense (including, without limitation, the execution and delivery of any and all assignment documents, affidavits, declarations, oaths, available samples, available exhibits, available specimens and other documentation as may be reasonably required) in connection with: (1) the implementation, perfection or recording of this Assignment in the United States and any and all applicable foreign jurisdictions; (2) the preparation and prosecution of any application, continuations, divisions, continuations-in-part, extensions or equivalent to any of the foregoing for any of the Patents; (3) the prosecution or defense of any interference, opposition, re-examination, reissue, infringement or other proceedings that may arise in connection with any of the Patents, including, but not limited to, testifying as to any facts relating to the rights assigned in this Assignment; (4) the prosecution or defense of any interference, opposition, infringement or other proceedings that may arise in connection with the Patents and this Assignment; and (5) obtaining any additional protection that Assignee may deem appropriate which may be secured under the laws now or hereafter in effect in the United States or any other country.

Assignor hereby specifically incorporates by reference all of the representations, warranties and indemnifications, subject to all of the conditions and limitations, applicable to the Patents in the Purchase Agreement.

Assignor shall provide Assignee, its successors, assigns or other legal representatives, cooperation and assistance at Assignee's request and expense (including the execution and delivery of any and all affidavits, declarations, oaths, exhibits, assignments, powers of attorney or other documentation) as may be reasonably required in the implementation or perfection of this Assignment.

Assignor shall have no liability for any obligations, claims or causes of action that arise, or may arise, from or in connection with the development, testing, manufacture, distribution or sale of any products covered by or subject to the Patents and Assignee shall hold Assignor harmless from such liability.

This Assignment may be executed in any number of counterparts, each of which shall be deemed to be an original, and all of which together shall constitute one and the same instrument.

[remainder of page intentionally left blank]

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be duly executed as of the date first above written.

BETHLEHEM STEEL CORPORATION

By: *B. E. Derrico*
Name: B. E. Derrico
Title: Treasurer

STATE OF)
) SS: Pennsylvania
COUNTY OF) Lehigh

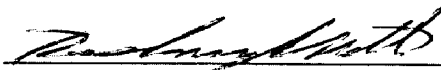
On this 29th day of April, 2003 personally appeared before me B. E. Derrico, known to me to be Treasurer of BETHLEHEM STEEL CORPORATION, who acknowledged that he/she signed this instrument as a free act on behalf of BETHLEHEM STEEL CORPORATION.

Judy C. Wuchter
Notary Public:

My commission expires:

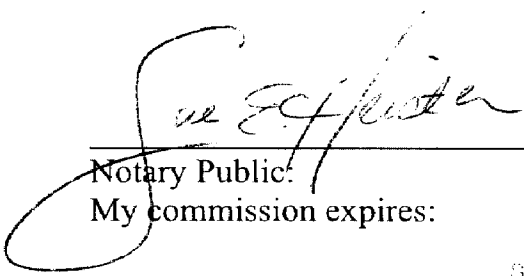
Notarial Seal
Judy C. Wuchter, Notary Public
City of Bethlehem, Lehigh County
My Commission Expires Mar. 19, 2006

ISG TECHNOLOGIES INC.

By: 
Name: Rodney B. Mott
Title: President

STATE OF Ohio)
COUNTY OF Summit) SS:

On this 28th day of April, 2003 personally appeared before me Rodney Mott, known to me to be President of ISG TECHNOLOGIES INC., who acknowledged that he/she signed this instrument as a free act on behalf of ISG TECHNOLOGIES INC.


Notary Public:

My commission expires:

SUE E. HEISTER
Notary Public, State of Ohio
My Commission Expires 10/27/2007

SCHEDULE A

PATENTS AND PATENT APPLICATIONS

(See attached listing.)

6/23/2003 9 38 PAGE: 1

List of All Current U.S. and Foreign Patents and Patent Applications

Docket Number	Appln. No.	Patent No.	Title
Country			
=====	=====	=====	=====
100-115-003-BTL	429107	1204081	SYSTEM FOR CONTROLLING
Canada	5/27/1983	5/6/1986	SEPARATING GRAVITY IN
			DENSE-MEDIA CYCLONE
Parent No./Date	Tax Due:		
	Expires: 5/27/2003		
100-115-005-BTL	429966	1187284	METHOD FOR INCREASING THE WET
Canada	6/8/1983	5/21/1985	BULK DENSITY OF COKING COALS
Parent No./Date	Tax Due:		
	Expires: 6/8/2003		
100-305-017-BTL	2278495		METHOD FOR RECYCLING IRON
Canada	1/22/1998		BEARING SLUDGES IN A
			STEELMAKING OPERATION
Parent No./Date	Tax Due: 1/22/2004		
PCT/US98/01019	Expires:		
1/22/1998			
100-305-017-ENV	08/835168	5785737	METHOD FOR RECYCLING IRON
United States	4/8/1997	7/28/1998	BEARING SLUDGES IN A
			STEELMAKING OPERATION
Parent No./Date	Tax Due: 1/28/2006		
SUBMISSION	Expires: 4/8/2017		
10/28/1996			
100-305-017-ENV	09/359776	6241805	METHOD AND SYSTEM FOR
United States	7/26/1999	6/5/2001	IMPROVING THE EFFICIENCY OF A
			BASIC OXYGEN FURNACE
Parent No./Date	Tax Due: 12/5/2004		
SUBMISSION	Expires: 7/26/2019		
4/30/1999			
100-305-017-ENV	09/330181	6126714	METHOD FOR RECYCLING IRON
United States	6/15/1999	10/3/2000	BEARING SLUDGES IN A
			STEELMAKING OPERATION
Parent No./Date	Tax Due: 4/3/2004		
08/835168	Expires: 4/8/2017		
4/8/1997			

List of All Current U.S. and Foreign Patents and Patent Applications

Docket Number Country	Appln. No.	Patent No.	Title
180-305-017-ENV United States	09/070661 4/30/1998	6136066 10/24/2000	METHOD FOR RECYCLING IRON BEARING SLUDGES IN A STEELMAKING OPERATION
Parent No./Date 01/835168 4/8/1997	Tax Due: 4/24/2004 Expires: 4/8/2017		
180-305-022-ENV United States	09/561149 4/28/2000	6383250 5/2/2002	RECYCLE BLENDS AND METHOD FOR ENHANCING STEELMAKING OPERATIONS
Parent No./Date	Tax Due: 11/2/2005 Expires: 4/28/2020		
180-305-023-ENV United States	09/725739 11/29/2000	6514312 2/4/2003	["Slag Conditioner"] STEELMAKING SLAG CONDITIONER AND METHOD
Parent No./Date	Tax Due: 8/4/2006 Expires: 11/29/2020		
180-400-001-BHP United States	690434 4/24/1991	5147452 9/15/1992	METHOD OF AGGLOMERATING MINERAL ORE CONCENTRATE
Parent No./Date	Tax Due: 3/15/2004 Expires: 4/24/2011		
Patent No. 5,147,452 owned jointly with Betz Laboratories			
180-101-014-HRL United States	08/976985 11/24/1997	5941445 8/24/1999	APPARATUS FOR REFURBISHING A COKE OVEN DOORJAMB
Parent No./Date SUBMISSION 4/3/1997	Tax Due: 2/24/2007 Expires: 11/24/2017		
180-101-014-HRL United States	09/304998 5/4/1999	6036079 3/14/2000	METHOD FOR REFURBISHING A COKE OVEN DOORJAMB
Parent No./Date SUBMISSION 4/3/1997	Tax Due: 9/14/2003 Expires: 4/3/2017		
200-110-004-SPP United States	08/921385 8/29/1997	6080223 6/27/2000	FLAME DETECTION MONITORING SYSTEM FOR DETECTING BLOCKAGES IN BLAST FURNACE INJECTION PATHS
Parent No./Date SUBMISSION 2/10/1997	Tax Due: 12/27/2003 Expires: 8/29/2017		

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Docket Number	Appin. No.	Patent No.	Title
Country			
200-110-005-SPP	10/051165		[Coal Injection Anti-Plugging
United States	1/22/2002		by Temperature Sensing] Method
Parent No./Date	Tax Due:		and Apparatus for Clearing a
Submission	Expires:		Powder Accumulation in a
3/5/2001			
200-200-001-BIE	429137	1216156	BLAST FURNACE CONTROL METHOD
Canada	5/30/1983	1/6/1987	
Parent No./Date	Tax Due:		
396111	Expires: 1/6/2004		
2/11/1982			
2002-COR-00011	10/219723		Metals Removal from Rainfall
United States	8/15/2002		Runoff
Parent No./Date	Tax Due:		
	Expires:		
3/11/2002			
2002-COR-00016	10/367518		Submerged Entry Nozzle and
United States	2/14/2003		Method for Maintaining a Quiet
Parent No./Date	Tax Due:		Casting Mold
	Expires:		
2002-COR-00038	10/350353		[Shape Display/Expert System]
United States	1/24/2003		Graphical Rolled Sheet Steel
Parent No./Date	Tax Due:		Flatness Display and Method of
	Expires:		Using Same
1/21/2003			
2002-COR-00039	10/324323		[Filter Distributor]
United States	12/20/2002		Distributor Apparatus for
Parent No./Date	Tax Due:		Providing a Uniform Discharge
	Expires:		of Material

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Docket Number	Appln. No.	Patent No.	Title
210-100-009-BHP United States	08/889857 7/8/1997	5853656 12/29/1998	APPARATUS AND METHOD FOR COOLING A BASIC OXYGEN FURNACE TRUNNION RING
Parent No./Date SUBMISSION 4/9/1997	Tax Due: 6/29/2006 Expires: 7/8/2017		
210-100-010-SPP United States	09/174528 10/16/1998	6086817 7/11/2000	OFF-GAS HOOD FOR A BASIC OXYGEN FURNACE AND METHOD OF REPAIR
Parent No./Date	Tax Due: 1/11/2004 Expires: 10/16/2018		
210-100-011-HRL United States	10/029897 12/21/2001		APPARATUS AND METHOD FOR DELIVERING AN INERT GAS TO PREVENT PLUGGING IN A SLIDE GATE
Parent No./Date Submission 3/26/2001	Tax Due: Expires:		
210-300-009-AR Argentina	020103811 10/9/2002		[Short: "Nitrogen Blow"] METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 08/975134 10/11/2001	Tax Due: Expires:		
210-300-009-AUL Australia	2002301248 9/30/2002		[Short: "Nitrogen Blow"] A METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 08/975134 10/11/2001	Tax Due: 9/30/2007 Expires:		
210-300-009-BR Brazil	PI 0204151-0 10/11/2002		[Short: "Nitrogen Blow"] METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 08/975134 10/11/2001	Tax Due: 10/11/2004 Expires:		

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Docket Number	Appln. No.	Patent No.	Title
250-300-009-HRL United States	09/975134 10/11/2001	6500224 12/31/2002	[Short: "Nitrogen Blow"] Method for Operating a Steelmaking Furnace During a Steelmaking Process
Parent No./Date Submission: 2/21/2001	Tax Due: 6/30/2006 Expires: 10/11/2021		
250-300-009-HRL Canada	2406394 10/3/2002		[Short: "Nitrogen Blow"] A METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 09/975134 10/11/2001	Tax Due: 10/3/2004 Expires:		
250-300-009-HRL European Patent Conv	02022423.4 10/4/2002		[Short: "Nitrogen Blow"] A METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 09/975134 10/11/2001	Tax Due: 10/31/2004 Expires:		
250-300-009-JP Japan	2002-284680 9/30/2002		[Short: "Nitrogen Blow"] METHOD OF COOLING A MOLTEN METAL BATH IN A METALLURGICAL PROCESS
Parent No./Date 09/975134 10/11/2001	Tax Due: Expires:		
250-300-009-KR Korea South	10-2002-0060385 10/4/2002		[Short: "Nitrogen Blow"] A METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 09/975134 10/11/2001	Tax Due: Expires:		
250-300-009-MX Mexico	PA/a/2002/009974 10/9/2002		[Short: "Nitrogen Blow"] METHOD OF COOLING A MOLTEN METAL BATH IN A METALLURGICAL PROCESS
Parent No./Date 09/975134 2/21/2001	Tax Due: Expires:		

List of All Current U.S. and Foreign Patents and Patent Applications

Docket Number	Appln. No.	Patent No.	Title
Country			
200-300-009-TW Taiwan	91122541 9/30/2002		[Short: "Nitrogen Blow"] METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 09/975134 10/11/2001	Tax Due: Expires:		
200-309-002-BTL Canada	2018355 6/6/1990	2018355 10/7/1997	MICROALLOYED JOINT BAR FOR USE ON RAILROAD RAILS
Parent No./Date SUBMISSION 10/31/1988	Tax Due: 6/6/2003 Expires: 6/6/2010		
200-309-003-BTL Canada	2044455 6/12/1991	2044455 11/30/1999	HOT ROLLED MICROALLOYED STEEL AND ITS USE IN VARIABLE THICKNESS SECTIONS
Parent No./Date 593283 10/16/1990	Tax Due: 6/12/2003 Expires: 6/12/2011		
200-309-003-BTL Mexico	91/01588 10/15/1991	174076 4/19/1994	HOT ROLLED MICROALLOYED STEEL AND ITS USE IN VARIABLE THICKNESS SECTIONS
Parent No./Date 593283	Tax Due: 10/15/2006 Expires: 10/15/2011		
200-309-003-HRL United States	598283 10/16/1990	5100613 3/31/1992	HOT ROLLED MICROALLOYED STEEL AND ITS USE IN VARIABLE THICKNESS SECTIONS
Parent No./Date SUBMISSION 7/3/1989	Tax Due: 9/30/2003 Expires: 10/16/2010		
200-311-004-BIE Canada	411942 1/11/1983	1204305 5/13/1936	5144-D-3 TITANIUM AND VANADIUM DUAL-PHASE STEEL AND METHOD OF MANUFACTURE
Parent No./Date	Tax Due: Expires: 5/13/2003		

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Docket Number	Appln. No.	Patent No.	Title
Country			
200-311-013-HRL United States Parent No./Date 941453 9/8/1992	941453 9/8/1992 Tax Due: 1/5/2006 Expires: 9/8/2012	532652/ 7/5/1994	TI BEARING LOW COST STRUCTURAL STEELS
200-311-013-HRL United States Parent No./Date 941453 9/8/1992	08/487591 6/7/1995 Tax Due: 11/7/2003 Expires: 5/7/2013	5514227 5/7/1996	LOW COST STRUCTURAL STEELS
200-311-013-HRL United States Parent No./Date 941453 9/8/1992	250011 5/27/1994 Tax Due: 10/16/2003 Expires: 4/16/2013	5507886 4/16/1996	TI BEARING LOW COST STRUCTURAL STEELS
200-311-014-BTL Australia Parent No./Date PCT/US95/14526 11/3/1995	41503/96 11/3/1995 Tax Due: 11/3/2003 Expires: 11/3/2015	688178 8/13/1998	BAKE HARDENABLE VANADIUM STEEL
200-311-014-BTL Australia Parent No./Date PCT/US96/06074 5/1/1996	56349/96 5/1/1996 Tax Due: 5/1/2003 Expires: 5/1/2016	716905 6/22/2000	BAKE HARDENABLE STEEL SHEET (VANADIUM/CARBON RATIO)
200-311-014-BTL Brazil Parent No./Date PCT/US95/14526 11/3/1995	PI 9509616-7 11/3/1995 Tax Due: 11/3/2003 Expires:		BAKE HARDENABLE VANADIUM STEEL
200-311-014-BTL Brazil Parent No./Date PCT/US96/06074 5/1/1996	PI 9612531-4 5/1/1996 Tax Due: 5/1/2003 Expires:		BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS

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Docket Number	Appln. No.	Patent No.	Title
Country			
250-311-014-BTL Canada Parent No./Date PCT/US95/14526 11/3/1995	2204492 11/3/1995 Tax Due: 11/3/2003 Expires:		BAKE HARDENABLE VANADIUM STEEL
250-311-014-BTL Canada Parent No./Date PCT/US96/06074 5/1/1996	2250162 5/1/1996 Tax Due: 5/1/2003 Expires:		BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS
250-311-014-BTL China P.R. Parent No./Date PCT/US96/06074 5/1/1996	96 1 80128.X 5/1/1996 Tax Due: 5/1/2003 Expires: 5/1/2016	83618 4/3/2002	BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS
250-311-014-BTL China P.R. Parent No./Date PCT/US95/14526 11/3/1995	95 1 96063.6 11/3/1995 Tax Due: 11/3/2003 Expires: 11/3/2015	ZL 95196063.6 9/26/2001	BAKE HARDENABLE VANADIUM STEEL
250-311-014-BTL European Patent Conv Parent No./Date PCT/US96/06074 11/3/1995	00125748.4 11/3/1995 Tax Due: 11/30/2003 Expires:		BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS [Divisional Application]
250-311-014-BTL European Patent Conv Parent No./Date PCT/US95/14526 11/3/1995	95939832.2 11/3/1995 Tax Due: 11/30/2003 Expires:		BAKE HARDENABLE VANADIUM STEEL
250-311-014-BTL Japan Parent No./Date PCT/US95/14526 11/3/1995	08-515506 11/3/1995 Tax Due: Expires:		BAKE HARDENABLE VANADIUM STEEL

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Docket Number	Appln. No.	Patent No.	Title
Country			
250-311-014-BTL Japan Parent No./Date PCT/US96/06074 5/1/1996	9-530905 5/1/1996 Tax Due: Expires:		BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS
250-311-014-BTL Korea South Parent No./Date PCT/US96/06074 5/1/1996	706704/98 5/1/1996 Tax Due: 5/21/2005 Expires: 5/1/2016	0339052 5/21/2002	BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS
250-311-014-BTL Korea South Parent No./Date PCT/US95/14526 11/3/1995	97-0702889 11/3/1995 Tax Due: 8/5/2003 Expires: 11/3/2015	227706 8/5/1999	BAKE HARDENABLE VANADIUM STEEL
250-311-014-BTL Mexico Parent No./Date PCT/US95/14526	973183 11/3/1995 Tax Due: 11/3/2005 Expires: 11/3/2015	199485 11/10/2000	BAKE HARDENABLE VANADIUM STEEL
250-311-014-BTL Mexico Parent No./Date PCT/US96/06074 5/1/1996	986853 5/1/1996 Tax Due: 5/1/2006 Expires: 5/1/2016	203160 7/20/2001	BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS
250-311-014-BTL Taiwan Parent No./Date 08/607893 2/27/1996	85105388 5/6/1996 Tax Due: Expires:		BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS
250-311-014-BTL Taiwan Parent No./Date 08/335044 11/7/1994	84111852 11/8/1995 Tax Due: 9/20/2003 Expires: 11/8/2015	108318 3/4/2000	BAKE HARDENABLE VANADIUM STEEL

List of All Current U.S. and Foreign Patents and Patent Applications

Docket Number	Appln. No.	Patent No.	Title
Country			
200-311-014-HRL United States Parent No./Date SUBMISSION 8/19/1994	08/335004 11/7/1994 Tax Due: 3/17/2004 Expires: 11/7/2014	5556485 9/17/1996	BAKE HARDENABLE VANADIUM STEEL
200-311-014-HRL United States Parent No./Date SUBMISSION 1/15/1996	08/607893 2/27/1996 Tax Due: 2/12/2005 Expires: 2/27/2016	5656102 8/12/1997	BAKE HARDENABLE BASED UPON VANADIUM/CARBON RATIOS
200-311-017-HRL United States Parent No./Date SUBMISSION 12/13/1996	08/883470 6/25/1997 Tax Due: 7/12/2006 Expires: 6/25/2017	5858130 1/12/1999	COMPOSITION AND METHOD FOR PRODUCING AN ALLOY STEEL AND A PRODUCT THEREFROM FOR STRUCTURAL USE
200-311-017-HRL United States Parent No./Date 08/883470 6/25/1997	09/036667 3/4/1998 Tax Due: 2/7/2005 Expires: 6/25/2017	6270594 8/7/2001	COMPOSITION AND METHOD FOR PRODUCING AN ALLOY STEEL AND A PRODUCT THEREFROM FOR STRUCTURAL USE
200-311-019-HRL United States Parent No./Date Submission 3/19/2001	10/016062 11/15/2001 Tax Due: Expires:		MOLYBDENUM BEARING DUAL-PHASE STEEL SHEET SUITABLE FOR HOT-DIP COATING APPLICATIONS
200-312-012-HRL United States Parent No./Date SUBMISSION 2/11/1993	111546 8/25/1993 Tax Due: 8/7/2006 Expires: 8/25/2013	5387392 2/7/1995	STEEL GRADE FOR USE IN MAKING GAS CYLINDERS

List of All Current U.S. and Foreign Patents and Patent Applications

Docket Number	Appln. No.	Patent No.	Title
Country			
210-312-013-BTL	44148/99		METHOD OF MAKING AN AS-ROLLED
Australia	6/3/1999		MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM
Parent No./Date	Tax Due: 6/3/2004		
PCT/US99/12300	Expires:		
1/20/1999			
Application owned jointly with Pohang Iron and Steel Co.			
210-312-013-BTL	PI9917087-6		METHOD OF MAKING AN AS-ROLLED
Brazil	6/3/1999		MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM
Parent No./Date	Tax Due: 6/3/2003		
PCT/US99/12300	Expires:		
1/20/1999			
Application owned jointly with Pohang Iron and Steel Co.			
210-312-013-BTL	2353407		METHOD OF MAKING AN AS-ROLLED
Canada	6/3/1999		MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM
Parent No./Date	Tax Due: 6/3/2003		
PCT/US99/12300	Expires:		
1/20/1999			
Application owned jointly with Pohang Iron and Steel Co.			
210-312-013-BTL	99815699.X		[Weathering Steel Plate]
China P.R.	6/3/1999		METHOD OF MAKING AN AS-ROLLED
			MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM
Parent No./Date	Tax Due: 6/3/2003		
PCT/US99/12300	Expires:		
1/20/1999			
Application owned jointly with Pohang Iron and Steel Co.			
210-312-013-BTL	99927179.4		METHOD OF MAKING AN AS-ROLLED
European Patent Conv	6/8/2001		MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM
Parent No./Date	Tax Due: 6/30/2003		
PCT/US99/12300	Expires:		
1/20/1999			
Application owned jointly with Pohang Iron and Steel Co.			
210-312-013-BTL	2000-594966		METHOD OF MAKING AN AS-ROLLED
Japan	6/3/1999		MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM
Parent No./Date	Tax Due:		
PCT/US99/12300	Expires:		
1/20/1999			
Application owned jointly with Pohang Iron and Steel Co.			

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200-312-013-BTL	PCT/US99/12300		METHOD OF MAKING AN AS-ROLLED
Patent Cooperation 2	6/3/1999		MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM

Parent No./Date	Tax Due:
09/233508	Expires:
1/20/1999	

Application owned jointly with Pohang Iron and Steel Co.

200-312-013-HRL	09/233508	6187117	METHOD OF MAKING AN AS-ROLLED
United States	1/20/1999	2/13/2001	MULTI-PURPOSE WEATHERING STEEL
			PLATE AND PRODUCT THEREFROM

Parent No./Date	Tax Due: 8/13/2004
Submission	Expires: 1/20/2019
11/24/1998	

Application owned jointly with Pohang Iron and Steel Co.

200-312-014-HRL	09/245318	6238493	[Weathering Plate] METHOD OF
United States	2/5/1999	5/29/2001	MAKING A WEATHERING GRADE
			PLATE AND PRODUCT THEREFROM

Parent No./Date	Tax Due: 11/29/2004
Submission	Expires: 2/5/2019
11/24/1998	

200-511-003-HRL	08/399685	5603749	APPARATUS AND METHOD FOR
United States	3/7/1995	2/18/1997	VACUUM TREATING MOLTEN STEEL

Parent No./Date	Tax Due: 8/18/2004
SUBMISSION	Expires: 3/7/2015
4/27/1994	

300-100-004-HRL	059715	4801056	DISTRIBUTOR FOR CONTINUOUS
United States	6/8/1987	1/31/1989	CASTING MACHINE

Parent No./Date	Tax Due: 7/31/2000
SUBMISSION	Expires: 6/8/2007

300-105-004-BTL	2082459	2082459	IMPACT PAD FOR A CONTINUOUS
Canada	11/9/1992	10/10/1995	CASTER TUNDISH

Parent No./Date	Tax Due: 11/9/2003
852502	Expires: 11/9/2012
2/7/1992	

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Country			
300-105-004-HRL United States Parent No./Date 832520 2/7/1992	08/347975 12/1/1994 Tax Due: 6/8/2004 Expires: 2/7/2012	RE35685 12/9/1997	IMPACT PAD FOR A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Australia Parent No./Date PCT/US95/12970 10/16/1995	39520/95 10/16/1995 Tax Due: 10/16/2003 Expires: 10/16/2015	705708 5/27/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Austria Parent No./Date PCT/US95/12970 10/16/1995	95 937395.2 10/16/1995 Tax Due: 10/31/2003 Expires: 10/16/2015	804306 1/13/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Belgium Parent No./Date PCT/US95/12970 10/16/1995	95 937395.2 10/16/1995 Tax Due: 10/31/2003 Expires: 10/16/2015	804306 1/13/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Brazil Parent No./Date PCT/US95/12970 10/16/1995	PI9510297-3 10/16/1995 Tax Due: 10/16/2003 Expires: 10/16/2015	PI9510297-3 5/5/2000	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Canada Parent No./Date 08/372,535 1/13/1995	2163047 11/16/1995 Tax Due: 11/16/2003 Expires: 11/16/2015	2163047 3/26/2002	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL China P.R. Parent No./Date PCT/US95/12970 10/16/1995	95 197302.9 10/16/1995 Tax Due: 10/16/2003 Expires: 10/16/2015	ZL 95197302.9 9/26/2001	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH

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300-105-006-BTL European Patent Conv Parent No./Date PCT/US95/12970 10/16/1995	95 937395.2 10/16/1995 Tax Due: Expires: 10/16/2015	804306 1/13/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL France Parent No./Date PCT/US95/12970 10/16/1995	95 937395.2 10/16/1995 Tax Due: 10/31/2003 Expires: 10/16/2015	804306 1/13/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Great Britain Parent No./Date PCT/US95/12970 10/16/1995	95 937395.2 10/16/1995 Tax Due: 10/16/2003 Expires: 10/16/2015	804306 1/13/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Germany Parent No./Date PCT/US95/12970 10/16/1995	95 937395.2 10/16/1995 Tax Due: 10/31/2003 Expires: 10/16/2015	69507341.9-08 1/13/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Italy Parent No./Date PCT/US95/12970 10/16/1995	95 937395.2 10/16/1995 Tax Due: 10/31/2003 Expires: 10/16/2015	804306 1/13/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Japan Parent No./Date PCT/US95/12970 10/16/1995	8-521634 10/16/1995 Tax Due: 10/8/2003 Expires: 10/16/2015	2989270 10/8/1999	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Korea South Parent No./Date PCT/US95/12970 10/16/1995	704636/97 10/16/1995 Tax Due: 5/8/2003 Expires: 10/16/2015	262782 5/8/2000	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH

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300-100-006-BTL	95 937395.2	804306	FLOW CONTROL IN A CONTINUOUS
Luxembourg	10/16/1995	1/13/1999	CASTER TUNDISH
Parent No./Date	Tax Due: 10/31/2003		
PC/US95/12970	Expires: 10/16/2015		
10/16/1995			
300-100-006-BTL	975271		FLOW CONTROL IN A CONTINUOUS
Mexico	7/11/1997		CASTER TUNDISH
Parent No./Date	Tax Due:		
PC/US95/12970	Expires:		
300-105-006-BTL	95 937395.2	804306	FLOW CONTROL IN A CONTINUOUS
Netherlands	10/16/1995	1/13/1999	CASTER TUNDISH
Parent No./Date	Tax Due: 10/31/2003		
PC/US95/12970	Expires: 10/16/2015		
10/16/1995			
300-105-006-BTL	84111477	89385	FLOW CONTROL IN A CONTINUOUS
Taiwan	10/30/1995	1/6/1998	CASTER TUNDISH
Parent No./Date	Tax Due: 8/20/2003		
08/372,535	Expires: 10/30/2015		
1/13/1995			
300-105-006-HRL	08/372535	5551672	FLOW CONTROL IN A CONTINUOUS
United States	1/13/1995	9/3/1996	CASTER TUNDISH
Parent No./Date	Tax Due: 3/3/2004		
SUBMISSION	Expires: 1/13/2015		
9/30/1994			
300-109-001-HRL	082393	4784209	CONTINUOUS CASTING APPARATUS
United States	8/6/1987	11/15/1988	
Parent No./Date	Tax Due:		
SUBMISSION	Expires: 8/6/2007		
3/14/1984			
300-110-003-SPP	619958	5078016	METHOD FOR USING LOAD CELL
United States	11/30/1990	1/7/1992	PIN FOR CONTINUOUS CASTER MOLDS
Parent No./Date	Tax Due: 7/7/2003		SHLESINGER INSTRUCTED TO FILE
3:5819	Expires: 6/14/2009		DIVISIONAL
6/14/1989			

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300-111-002-SPP	08/319510	5649889	STRESS ALLEVIATING GUIDE ROLL
United States	10/6/1994	7/22/1997	
Parent No./Date	Tax Due: 1/22/2005		
SUBMISSION	Expires: 10/6/2014		
4/1/1994			
300-150-002-STG	522302	1251225	CONTINUOUS CASTING SLAG
Canada	11/6/1986	3/14/1989	
Parent No./Date	Tax Due:		
J.B. 786675	Expires: 11/6/2006		
10/11/1985			
300-300-005-HRL	08/081031	5321875	WELL BLOCK CENTERING TOOL
United States	6/22/1993	6/21/1994	
Parent No./Date	Tax Due: 12/21/2005		
	Expires: 6/22/2013		
300-300-007-SPP	674481	5100034	MOLTEN METAL SLIDE GATE VALVE
United States	3/25/1991	3/31/1992	
Parent No./Date	Tax Due: 9/30/2003		
500683	Expires: 4/14/2010		
4/14/1990			
300-305-010-BTL	92/00226	179259	SLAG STOPPER
Mexico	1/17/1992	8/22/1995	
Parent No./Date	Tax Due: 1/17/2006		
711963	Expires: 1/17/2012		
300-305-010-SPP	717963	5083754	APPARATUS FOR RETAINING SLAG
United States	6/20/1991	1/28/1992	DURING THE DISCHARGE OF MOLTEN
Parent No./Date	Tax Due: 7/28/2003		STEEL FROM A BOF VESSEL
SUBMISSION	Expires: 6/20/2011		
4/3/1990			
300-311-001-BTL	19755/88	590163	PROCESS FOR REHEATING MOLTEN
Australia	7/25/1988	2/22/1990	STEEL CONTAINED IN A LADLE
Parent No./Date	Tax Due: 7/25/2003		
083443	Expires: 7/25/2008		
8/24/1987			

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Country			
300-311-001-BTL Austria Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-001-BTL Belgium Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-001-BTL Brazil Parent No./Date 088443 8/24/1987	PI 8807177 5/24/1988 Tax Due: 5/24/2003 Expires: 5/24/2008	PI 8807177 9/26/1995	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-001-BTL Canada Parent No./Date 083440 8/24/1987	564581 4/20/1988 Tax Due: 10/26/2003 Expires: 10/26/2010	1323494 10/26/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-001-BTL European Patent Conv Parent No./Date 083440 8/24/1987	88908007.3 5/24/1988 Tax Due: Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-001-BTL France Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-001-BTL Great Britain Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/24/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE

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380-311-001-BTL West Germany Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	P 3885088.5 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
380-311-001-BTL Italy Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
380-311-001-BTL Korea South Parent No./Date 088448 8/24/1987	89/700711 5/24/1988 Tax Due: 5/13/2003 Expires: 5/13/2011	106715 10/28/1996	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
380-311-001-BTL Luxembourg Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
380-311-001-BTL Mexico Parent No./Date 088448	12014 6/23/1988 Tax Due: 6/23/2006 Expires: 6/23/2008	166235 12/24/1992	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
380-311-001-BTL Netherlands Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
380-311-001-BTL South Africa Parent No./Date 088448 8/24/1987	88/5604 7/29/1988 Tax Due: 7/29/2003 Expires: 7/29/2008	88/5604 4/26/1989	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE

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300-311-001-BTL Sweden Parent No./Date EP334915 5/24/1988	88908007.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	334915 10/20/1993	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-001-HRL United States Parent No./Date SUBMISSION 12/16/1986	088443 8/24/1987 Tax Due: Expires: 8/24/2007	4761178 8/2/1988	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE
300-311-002-BTL Australia Parent No./Date 083449 8/24/1987	19756/88 7/25/1988 Tax Due: 7/25/2003 Expires: 7/25/2008	592746 5/3/1990	CONSUMABLE LANCE
300-311-002-BTL Australia Parent No./Date 283665 12/19/1988	37983/89 7/11/1989 Tax Due: 7/11/2003 Expires: 7/11/2009	616622 2/26/1992	IMPROVED CONSUMABLE INJECTION LANCE
300-311-002-BTL Austria Parent No./Date PAT/US88/01713 5/24/1988	88906273.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	377578 5/12/1993	CONSUMABLE LANCE
300-311-002-BTL Belgium Parent No./Date PAT/US88/01713 5/24/1988	88906273.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	377578 5/12/1993	CONSUMABLE LANCE
300-311-002-BTL Brazil Parent No./Date PAT/US88/01713 5/24/1988	PI 8807671 5/24/1988 Tax Due: 5/24/2003 Expires: 5/24/2008	PI8807671-7 4/30/1996	CONSUMABLE LANCE

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300-311-002-BTL	564365	1302081	CONSUMABLE LANCE
Canada	4/20/1988	6/2/1992	
Parent No./Date	Tax Due: 6/2/2003		
018449	Expires: 6/2/2009		
8/24/1987			
300-311-002-BTL	609649	1309863	IMPROVED CONSUMABLE INJECTION
Canada	8/29/1989	11/10/1992	LANCE
Parent No./Date	Tax Due: 11/10/2003		
288665	Expires: 11/10/2009		
11/19/1988			
300-311-002-BTL	88906273.3	377578	CONSUMABLE LANCE
European Patent Conv	5/24/1988	5/12/1993	
Parent No./Date	Tax Due:		
PCT/US88/01713	Expires: 5/24/2008		
5/24/1988			
300-311-002-BTL	88906273.3	377578	CONSUMABLE LANCE
France	5/24/1988	5/12/1993	
Parent No./Date	Tax Due: 5/31/2003		
PCT/US88/01713	Expires: 5/24/2008		
5/24/1988			
300-311-002-BTL	88906273.3	377578	CONSUMABLE LANCE
Great Britain	5/24/1988	5/12/1993	
Parent No./Date	Tax Due: 5/24/2003		
PCT/US88/01713	Expires: 5/24/2008		
5/24/1988			
300-311-002-BTL	88906273.3	P3881053.0	CONSUMABLE LANCE
West Germany	5/24/1988	5/12/1993	
Parent No./Date	Tax Due: 5/31/2003		
PCT/US88/01713	Expires: 5/24/2008		
5/24/1988			
300-311-002-BTL	88906273.3	377578	CONSUMABLE LANCE
Italy	5/24/1988	5/12/1993	
Parent No./Date	Tax Due: 5/31/2003		
PCT/US88/01713	Expires: 5/24/2008		
5/24/1988			

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300-311-002-BTL Korea South Parent No./Date 083449 8/24/1987	700712/89 5/24/1988 Tax Due: 5/13/2003 Expires: 5/13/2011	106875 10/30/1996	CONSUMABLE LANCE
300-311-002-BTL Luxembourg Parent No./Date PCT/US38/01713 5/24/1988	88906273.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	377578 5/12/1993	CONSUMABLE LANCE
300-311-002-BTL Mexico Parent No./Date 083449	12015 6/23/1988 Tax Due: 6/23/2006 Expires: 6/23/2008	165377 11/6/1992	CONSUMABLE LANCE
300-311-002-BTL Mexico Parent No./Date 233665	16675 7/3/1989 Tax Due: 7/3/2006 Expires: 7/3/2009	166853 2/9/1993	IMPROVED CONSUMABLE LANCE
300-311-002-BTL Netherlands Parent No./Date PCT/US88/01713 5/24/1988	88906273.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	377578 5/12/1993	CONSUMABLE LANCE
300-311-002-BTL South Africa Parent No./Date 283665 11/19/1988	89/4912 6/28/1989 Tax Due: 6/28/2003 Expires: 6/28/2009	89/4912 3/27/1991	IMPROVED CONSUMABLE INJECTION LANCE
300-311-002-BTL South Africa Parent No./Date 083449 8/24/1987	88/5602 7/29/1988 Tax Due: 7/29/2003 Expires: 7/29/2008	88/5602 4/26/1989	CONSUMABLE LANCE

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300-311-002-BTL	88906273.3	377578	CONSUMABLE LANCE
Sweden	5/24/1988	5/12/1993	
Parent No./Date	Tax Due: 5/31/2003		
PCO/US88/01713	Expires: 5/24/2008		
5/24/1988			
300-311-002-STL	088449	4792125	CONSUMABLE LANCE
United States	8/24/1987	12/20/1988	
Parent No./Date	Tax Due:		
SUBMISSION	Expires: 8/24/2007		
12/16/1986			
300-311-002-STL	288665	4852860	IMPROVED CONSUMABLE INJECTION
United States	12/19/1988	8/1/1989	LANCE
Parent No./Date	Tax Due:		
88449	Expires: 8/24/2007		
8/24/1987			
300-110-002-SPP	09/696835	6408667	A FOUR-HIGH MILL STAND ROLL
United States	10/26/2000	6/25/2002	CHANGE DEVICE, A METHOD FOR
Parent No./Date	Tax Due: 12/25/2005		RETROFIT, AND A ROLL CHANGE
Submission	Expires: 10/26/2020		DEVICE THEREFROM
3/18/1999			
300-300-008-BTL	2236440		METHOD FOR STECKEL MILL
Canada	4/30/1998		OPERATION
Parent No./Date	Tax Due: 4/30/2003		
08/848751	Expires:		
5/1/1997			
300-300-008-LUK	08/848751	5863361	METHOD FOR STECKEL MILL
United States	5/1/1997	1/26/1999	OPERATION
Parent No./Date	Tax Due: 7/26/2006		
	Expires: 5/1/2017		
300-300-009-BHP	09/624113	6491761	"Stain Removal"] APPARATUS AND
United States	7/24/2000	12/10/2002	PROCESS FOR REMOVING STAINS
Parent No./Date	Tax Due: 6/10/2006		FROM A STEEL SHEET IN A
Submission	Expires: 7/24/2020		CONTINUOUS PICKLING LINE
6/18/1999			

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550-200-002-BHP	08/697763	5675880	DESCALING SYSTEM FOR USE IN
United States	8/29/1996	10/14/1997	THE MANUFACTURE OF STEEL AND
			CORRESPONDING METHOD
Parent No./Date	Tax Due: 4/14/2005		
SUBMISSION	Expires: 8/29/2016		
1/1/1996			
550-200-002-BHP	08/853479	5794658	DESCALING SYSTEM FOR USE IN
United States	5/9/1997	8/18/1998	THE MANUFACTURE OF STEEL AND
			CORRESPONDING METHOD
Parent No./Date	Tax Due: 2/18/2006		
SUBMISSION	Expires: 1/1/2016		
1/1/1996			
600-105-016-HRL	802386	5238510	FULL HARD GALVALUME SHEET
United States	12/4/1991	8/24/1993	
Parent No./Date	Tax Due: 2/24/2005		
565097	Expires: 8/24/2010		
8/10/1990			
600-105-020	10/256643		["Controlled Min Spangle"]
United States	9/27/2002		COMPOSITION FOR CONTROLLING
			SPANGLE SIZE, A COATED STEEL
Parent No./Date	Tax Due:		PRODUCT, AND A COATING METHOD
09/414766	Expires:		
10/7/1999			
600-105-020	10/105782	6440582 B1	["Brushed Min Spangle"] A
United States	3/25/2002	8/27/2002	COATING COMPOSITION FOR STEEL
			PRODUCT, A COATED STEEL
Parent No./Date	Tax Due: 2/27/2006		PRODUCT, AND A STEEL PRODUCT
09/414766	Expires: 10/7/2019		
10/7/1999			
600-105-020	09/978794	6468674 B2	[Short: "Minimum Spangle"] A
United States	10/18/2001	10/22/2002	COATING COMPOSITION FOR STEEL
			PRODUCT, A COATED STEEL
Parent No./Date	Tax Due: 4/22/2006		PRODUCT, AND A STEEL PRODUCT
09/414766	Expires: 10/7/2019		
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Docket Number	Appln. No.	Patent No.	Title
600-105-020 Australia	69304/00 8/24/2000		[Short: "Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date PCT/US00/23164 8/24/2000	Tax Due: 8/24/2005 Expires:		
600-105-020 Australia	2002300705 8/24/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date 10/105782 11/7/1999	Tax Due: 8/24/2007 Expires:		
600-105-020 Australia	Must Get 1/22/2003		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 10/256643 9/27/2002	Tax Due: 1/22/2008 Expires:		
600-105-020 Brazil	PI0014608-0 8/24/2000		["Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT COATING METHOD
Parent No./Date PCT/US00/23164 8/24/2000	Tax Due: 8/24/2003 Expires:		
600-105-020 Brazil	PI0205486-8 12/26/2002		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 10/256643 9/27/2002	Tax Due: 12/26/2004 Expires:		
600-105-020 Brazil	PI0202689-9 7/15/2002		["Brushed Min Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date 10/105782 11/7/1999	Tax Due: 7/15/2004 Expires:		

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Docket Number	Appln. No.	Patent No.	Title
Country			
600-105-020 Canada	2,380,891 8/24/2000		["Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT COATING METHOD
Parent No./Date PCT/US00/23164 8/24/2000	Tax Due: 8/24/2003 Expires:		
600-105-020 Canada	2413521 12/4/2002		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 10/256643 9/27/2002	Tax Due: 12/4/2004 Expires:		
600-105-020 Canada	2391476 6/25/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date 10/105782 11/7/1999	Tax Due: 6/25/2004 Expires:		
600-105-020 European Patent Conv	00957724.8 8/24/2000		[Short:"Min Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date PCT/US00/23164 8/24/2000	Tax Due: 8/31/2003 Expires:		
600-105-020 European Patent Conv	02014567.8 7/1/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date 10/105782 3/25/2002	Tax Due: 7/31/2004 Expires:		
600-105-020 European Patent Conv	02027947.7 12/13/2002		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 10/256643 9/27/2002	Tax Due: 12/31/2004 Expires:		

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Docket Number	Appln. No.	Patent No.	Title
Country			
600-105-020	W00200200229		["Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT COATING METHOD
Indonesia	1/28/2002		
Parent No./Date	Tax Due:		
PCT/US00/23164	Expires:		
8/24/2000			
600-105-020	P00200200845		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Indonesia	12/19/2002		
Parent No./Date	Tax Due:		
10/256643	Expires:		
9/27/2002			
600-105-020	P00200200473		["Brushed Min Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Indonesia	8/2/2002		
Parent No./Date	Tax Due:		
10/105782	Expires:		
10/7/1999			
600-105-020	2001-529472		["Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT COATING METHOD
Japan	8/24/2000		
Parent No./Date	Tax Due:		
PCT/US00/23164	Expires:		
8/24/2000			
600-105-020	2002-205490		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Japan	7/15/2002		
Parent No./Date	Tax Due:		
10/105782	Expires:		
10/7/1999			
600-105-020	10-2002-7001402		[Short: "Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Korea South	2/1/2002		
Parent No./Date	Tax Due:		
PCT/US00/23164	Expires:		
8/24/2000			

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Docket Number	Appln. No.	Patent No.	Title
Country			
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600-105-020	2002-0077126		["Controlled Min Spangle"]
Korea South	12/6/2002		COMPOSITION FOR CONTROLLING
Parent No./Date	Tax Due:		SPANGLE SIZE, A COATED STEEL
10/250643	Expires:		PRODUCT, AND A COATING METHOD
9/27/2002			
600-105-020	2002-0041072		[Short: "Brushed Minimum
Korea South	7/15/2002		Spangle"] A COATING
Parent No./Date	Tax Due:		COMPOSITION FOR STEEL PRODUCT,
10/105782	Expires:		A COATED STEEL PRODUCT, AND A
3/25/2002			
600-105-020	PI 20020047		[Short: "Minimum Spangle"] A
Malaysia	1/8/2002		COATING COMPOSITION FOR STEEL
Parent No./Date	Tax Due:		PRODUCT, A COATED STEEL
PCT/US00/23164	Expires:		PRODUCT, AND A STEEL PRODUCT
8/24/2000			
600-105-020	PI 20024584		["Controlled Min Spangle"]
Malaysia	12/5/2002		COMPOSITION FOR CONTROLLING
Parent No./Date	Tax Due:		SPANGLE SIZE, A COATED STEEL
10/250643	Expires:		PRODUCT, AND A COATING METHOD
9/27/2002			
600-105-020	PI 20022542		["Brushed Min Spangle"] A
Malaysia	7/4/2002		COATING COMPOSITION FOR STEEL
Parent No./Date	Tax Due:		PRODUCT, A COATED STEEL
10/105782	Expires:		PRODUCT, AND A STEEL PRODUCT
10/7/1999			
600-105-020	PA/a/2002/001708		[Short: "Minimum Spangle"] A
Mexico	8/24/2000		COATING COMPOSITION FOR STEEL
Parent No./Date	Tax Due:		PRODUCT, A COATED STEEL
PCT/US00/23164	Expires:		PRODUCT, AND A STEEL PRODUCT
8/24/2000			

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Docket Number	Appln. No.	Patent No.	Title
600-105-020 Mexico	PA/a/2002/006968 7/16/2002		["Brushed Min Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date 10/105782 10/7/1999	Tax Due: Expires:		
600-105-020 New Zealand	516750 1/22/2002		[Short: "Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date PCT/US00/23164 8/24/2000	Tax Due: 1/22/2006 Expires:		
600-105-020 New Zealand	523419 1/3/2003		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 10/256643 9/27/2002	Tax Due: 1/3/2007 Expires:		
600-105-020 New Zealand	519954 9/30/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date 10/105782 10/7/1999	Tax Due: 9/30/2006 Expires:		
600-105-020 Patent Cooperation T	PCT/US00/23164 8/24/2000		[Short: "Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date 09/414766 10/7/1999	Tax Due: Expires:		
600-105-020 Taiwan	91137191 12/24/2002		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 10/256643 9/27/2002	Tax Due: Expires:		

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Docket Number	Appln. No.	Patent No.	Title
600-105-020 Taiwan	91114090 6/26/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date 10/105782 10/7/1999	Tax Due: Expires:		
600-105-020 Thailand	079452 1/16/2003		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 10/256643 9/27/2002	Tax Due: Expires:		
600-105-020 Thailand	075162 7/12/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date 10/105782 10/7/1999	Tax Due: Expires:		
600-110-001-BIE Canada	429104 5/27/1983	1204970 5/27/1986	FERROUS PRODUCT HAVING AN ALLOY COATING THEREON OF AL-ZN-MG-SI ALLOY AND METHOD
Parent No./Date	Tax Due: Expires: 5/27/2003		
600-111-001-HRL United States	08/677746 7/10/1996	5795661 8/18/1998	ZINC COATED STEEL SHEET AND STRIP HAVING IMPROVED FORMABILITY AND SURFACE QUALITY AND METHOD THEREOF
Parent No./Date SUBMISSION 4/28/1995	Tax Due: 2/18/2006 Expires: 7/10/2016		
600-111-002-HRL United States	09/175956 10/21/1998	6157899 12/5/2000	PREDICTION OF RESPONSES TO DIFFERENT POWDERING TESTS ON A GALVANNEAL-COATED STEEL SUBSTRATE OR DIFFERENT TESTS
Parent No./Date	Tax Due: 6/5/2004 Expires: 10/21/2018		

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Docket Number	Appln. No.	Patent No.	Title
600-200-007-HRL United States	256977 10/13/1988	4840712 6/20/1989	PROCESS FOR IMPROVING WEAR ON CONDUCTOR ROLLS IN ELECTROPLATING STEEL SURFACES
Parent No./Date SUBMISSION 6/21/1988	Tax Due: Expires: 10/13/2008		
600-200-013-BTL Austria	96107647.8 5/14/1996	744475 1/13/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 5/31/2003 Expires: 5/14/2016		
600-200-013-BTL Belgium	96107647.8 5/14/1996	744475 1/13/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 5/31/2003 Expires: 5/14/2016		
600-200-013-BTL Brazil	PI9602406-2 5/23/1996	PI9602406-2 12/24/2002	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 5/23/2003 Expires: 5/23/2016		
600-200-013-BTL Canada	2175105 4/26/1996	2175105 9/21/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 4/26/2003 Expires: 4/26/2016		
600-200-013-BTL European Patent Conv	96107647.8 5/14/1996	744475 1/13/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: Expires: 5/14/2016		

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Docket Number	Appln. No.	Patent No.	Title
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600-200-013-BTL France	96107647.8 5/14/1996	744475 1/13/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 5/31/2003 Expires: 5/14/2016		
600-200-013-BTL Great Britain	96107647.8 5/14/1996	744475 1/13/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 5/14/2003 Expires: 5/14/2016		
600-200-013-BTL West Germany	96107647.8 5/14/1996	69601323.1-08 1/13/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 5/31/2003 Expires: 5/14/2016		
600-200-013-BTL Italy	96107647.8 5/14/1996	744475 1/13/1999	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 5/31/2003 Expires: 5/14/2016		
600-200-013-BTL Korea South	96-0015162 5/9/1996	0292229 3/21/2001	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 3/21/2004 Expires: 5/9/2016		
600-200-013-BTL Taiwan	85105315 5/3/1996	119821 1/12/2001	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 8/10/2003 Expires: 5/3/2016		

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Docket Number	Appln. No.	Patent No.	Title
600-200-013-BTL Taiwan	88117729 5/3/1996	127502 6/13/2001	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 1/20/2004 Expires: 5/23/2015		
600-200-013-HRL United States	08/767379 12/16/1996	5660707 8/26/1997	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 2/26/2005 Expires: 5/23/2015		
600-200-013-HRL United States	08/767378 12/16/1996	5714049 2/3/1998	PROCESS FOR IMPROVING THE FORMABILITY AND WELDABILITY PROPERTIES OF ZINC COATED SHEET STEEL
Parent No./Date 08/447656 5/23/1995	Tax Due: 8/3/2005 Expires: 5/23/2015		
600-205-007-HRL United States	400941 3/8/1995	5538617 7/23/1996	FERROCYANIDE-FREE HALOGEN TINPLATING PROCESS AND BATH
Parent No./Date SUBMISSION 10/5/1998	Tax Due: 1/23/2004 Expires: 3/8/2015		
600-300-005-HRL United States	09/517064 3/1/2000	6428851 8/6/2002	[Thermal Deposition] METHOD FOR CONTINUOUS THERMAL DEPOSITION OF A COATING AND THE SHEET PRODUCT THEREFROM
Parent No./Date SUBMISSION 10/5/1998	Tax Due: 2/6/2006 Expires: 3/1/2020		
600-300-006-HRL United States	09/942955 8/31/2001		[Mini Paint Line] PROCESS FOR APPLYING A COATING TO A CONTINUOUS STEEL SHEET AND A COATED STEEL SHEET PRODUCT
Parent No./Date 60/229949 9/1/2000	Tax Due: Expires:		

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Docket Number	Appln. No.	Patent No.	Title
650-205-004-BHP United States Parent No./Date SUBMISSION 9/19/1990	729341 7/12/1991 Tax Due: 9/23/2004 Expires: 7/12/2011	5196071 3/23/1993	METHOD AND APPARATUS FOR DROSS FREE BURNING OF SLABS
700-100-013-BHP United States Parent No./Date	09/133133 8/13/1998 Tax Due: 11/9/2003 Expires: 8/13/2018	6059562 5/9/2000	GAS APPLIANCE WITH AUTOMATIC GAS SHUT-OFF DEVICE RESPONSIVE TO FLAME OUTAGE
750-100-002-HRL Canada Parent No./Date	427257 5/3/1983 Tax Due: Expires: 5/3/2003	1189346 6/25/1985	COKE OVEN FLUE TEMPERATURE MEASURING PROCESS AND PROBE MACHINE
750-100-003-BIE Canada Parent No./Date	463197 9/14/1984 Tax Due: Expires: 11/10/2004	1229001 11/10/1987	METHOD FOR MEASURING COKE OVEN WALL TEMPERATURE USING A RADIATION PYROMETER
750-100-004-BIE Canada Parent No./Date	417138 8/15/1983 Tax Due: Expires: 8/15/2003	1183268 2/26/1985	PYROMETER WITH SIGHTING WINDOW CLEANLINESS MONITORS
750-110-006-HRL United States Parent No./Date SUBMISSION 5/11/1992	068002 5/27/1993 Tax Due: 7/4/2005 Expires: 5/27/2013	5275488 1/4/1994	DROP-IN THERMOCOUPLE
750-110-007-BTL Australia Parent No./Date BTL/US96/14334 9/6/1996	69683/96 9/6/1996 Tax Due: 9/6/2003 Expires: 9/6/2016	709663 12/16/1999	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL

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Docket Number	Appln. No.	Patent No.	Title
Country			
750-110-007-BTL Austria	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
750-110-007-BTL Belgium	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
750-110-007-BTL Canada	2235499 9/6/1996	2235499 10/22/2002	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/6/2003 Expires: 9/6/2016		
750-110-007-BTL China P.R.	96197034.0 9/6/1996	96197034.0 4/5/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/6/2003 Expires: 9/6/2016		
750-110-007-BTL European Patent Conv	00113340.4 9/6/1996		METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/30/2003 Expires:		
750-110-007-BTL European Patent Conv	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: Expires: 9/6/2016		

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Country			
710-110-007-BTL France	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
710-110-007-BTL Great Britain	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/6/2003 Expires: 9/6/2016		
710-110-007-BTL Germany	96930736.2 9/6/1996	69613388 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date EP 0859866 B1 9/6/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
710-110-007-BTL Italy	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
710-110-007-BTL Japan	9-517315 9/6/1996	3251296 11/16/2001	["Carbon Content"] METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 11/16/2004 Expires: 9/6/2016		
710-110-007-BTL Korea South	702218/98 9/6/1996	0321670 1/10/2002	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 1/10/2005 Expires: 9/6/2016		

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Docket Number	Appln. No.	Patent No.	Title
Country			
750-110-007-BTL Luxembourg	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/30/2003 Expires: 9/7/2016		
750-110-007-BTL Mexico	982959 9/6/1996		METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: Expires:		
750-110-007-BTL South Africa	96/7866 9/18/1996	96/7866 8/27/1997	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date 08/550590 10/31/1995	Tax Due: 9/18/2003 Expires: 9/18/2016		
750-110-007-BTL Spain	96930736.2 9/6/1996	0859866 6/13/2001	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date PCT/US96/14334 9/6/1996	Tax Due: 9/6/2003 Expires: 9/6/2016		
750-110-007-BTL Taiwan	85111198 9/13/1996	94511 9/10/1998	METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date 08/550590 10/31/1995	Tax Due: 5/10/2003 Expires: 9/13/2016		
750-110-007-HRL United States	09/246991 2/8/1999	RE37922 12/10/2002	[Sharan Carbon Light Meter] METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A
Parent No./Date 5703746 10/31/1995	Tax Due: 8/18/2004 Expires: 10/31/2015		

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Docket Number	Appln. No.	Patent No.	Title
750-110-008-HRL United States Parent No./Date SUBMISSION 4/26/1995	08/583574 1/5/1996 Tax Due: 9/11/2004 Expires: 1/5/2016	5610346 3/11/1997	DROPPER APPARATUS FOR BOF DROP-IN SENSOR
750-110-009-HRL United States Parent No./Date Submission 9/1/1998	09/256166 2/23/1999 Tax Due: 7/16/2004 Expires: 2/23/2019	6175676 1/16/2001	FIBER-OPTIC SENSOR AND METHOD OF USE THEREOF TO DETERMINE CARBON CONTENT OF MOLTEN STEEL CONTAINED IN A BASIC OXYGEN
750-125-005-BTL Canada Parent No./Date 08/568339 12/6/1995	2190410 11/15/1996 Tax Due: 11/15/2003 Expires: 11/15/2016	2190410 4/25/2000	GALVANNEAL ANNEALING TEMPERATURE MEASUREMENT
750-125-005-BTL Mexico Parent No./Date 08/568339 12/6/1995	965783 11/22/1996 Tax Due: 11/22/2005 Expires: 11/22/2016	198214 8/23/2000	GALVANNEAL ANNEALING TEMPERATURE MEASUREMENT
750-125-005-HRL United States Parent No./Date 08/568339 12/6/1995	08/863475 5/27/1997 Tax Due: 1/28/2006 Expires: 12/6/2015	5785772 7/28/1998	GALVANNEAL ANNEALING TEMPERATURE MEASUREMENT
750-181-001-HRL United States Parent No./Date Submission 10/20/1999	09/847896 5/3/2001 Tax Due: 9/4/2006 Expires: 5/3/2021	6528790 3/4/2003	[Water Detection] METHOD AND APPARATUS FOR DETECTING WATER ON A SURFACE OF AN OBJECT

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Docket Number	Appln. No.	Patent No.	Title
750-185-002-BTL Austria	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
750-185-002-BTL Belgium	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
750-185-002-BTL Canada	2233516 3/30/1998		["InfraRed #1"] SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE
Parent No./Date 08/970098 11/13/1997	Tax Due: 3/30/2003 Expires:		
750-185-002-BTL European Patent Conv	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5968227 11/13/1997	Tax Due: Expires: 4/1/2018		
750-185-002-BTL France	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
750-185-002-BTL Great Britain	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5968227 11/13/1997	Tax Due: 4/1/2003 Expires: 4/1/2018		

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750-185-002-BTL Germany	98 105 916.5 4/1/1998	DE69801360 8/16/2001	T2 SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5958227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
750-185-002-BTL Italy	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5958227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
750-185-002-BTL Korea South	98-0013383 4/15/1998	0294271 4/13/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 08/970098 11/13/1997	Tax Due: 4/13/2004 Expires: 4/15/2018		
750-185-002-BTL Luxembourg	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5958227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
750-185-002-BTL Mexico	983203 4/23/1998	202785 7/2/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 08/970098 11/13/1997	Tax Due: 4/23/2006 Expires: 4/23/2018		
750-185-002-BTL Netherlands	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5958227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		

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750-185-002-BTL Sweden	98 105 916.5 4/1/1998	0922774 8/16/2001	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
750-185-002-BTL Taiwan	87106194 4/22/1998	147017 4/15/2002	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE PRODUCTION OF
Parent No./Date 08/970098 11/13/1997	Tax Due: 11/30/2003 Expires: 4/22/2018		
750-185-002-HRL United States	08/970098 11/13/1997	5968227 10/19/1999	[InfraRed #1] SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE
Parent No./Date SUBMISSION 6/10/1997	Tax Due: 4/19/2003 Expires: 11/13/2017		
750-185-002-HRL United States	09/377870 8/20/1999	6129888 10/10/2000	[InfraRed #2] SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE TAPPING OF A BOF CONVERTER IN THE
Parent No./Date 5968227 11/13/1997	Tax Due: 4/10/2004 Expires: 11/13/2017		
750-185-002-HRL United States	09/414505 10/8/1999	6197086 3/6/2001	[InfraRed #3] SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date Submission 3/31/1999	Tax Due: 9/6/2004 Expires: 3/31/2019		
750-185-002-HRL Argentina	00 01 00173 1/14/2000		["InfraRed #3] SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date 09/414,505 10/8/1999	Tax Due: Expires:		

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750-185-002-HRL	11346/00		SYSTEM AND METHOD FOR
Australia	1/14/2000		MINIMIZING SLAG CARRYOVER
			DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/14/2005		
09/414,505	Expires:		
10/8/1999			
750-185-002-HRL	PI0000533-9		SYSTEM AND METHOD FOR
Brazil	1/14/2000		MINIMIZING SLAG CARRYOVER
			DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/14/2004		
09/414,505	Expires:		
10/8/1999			
750-185-002-HRL	2295386		SYSTEM AND METHOD FOR
Canada	1/13/2000		MINIMIZING SLAG CARRYOVER
			DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/13/2004		
09/414,505	Expires:		
10/8/1999			
750-185-002-HRL	00101088.3		SYSTEM AND METHOD FOR
China P.R.	1/14/2000		MINIMIZING SLAG CARRYOVER
			DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/14/2004		
09/414,505	Expires:		
10/8/1999			
750-185-002-HRL	00100458.9		[InfraRed #3] SYSTEM AND
European Patent Conv	1/11/2000		METHOD FOR MINIMIZING SLAG
			CARRYOVER DURING THE
Parent No./Date	Tax Due: 1/31/2004		PRODUCTION OF STEEL
6197086	Expires:		
10/8/1999			
750-185-002-HRL	20/Ca1/2000		SYSTEM AND METHOD FOR
India	1/14/2000		MINIMIZING SLAG CARRYOVER
			DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due:		
09/414,505	Expires:		
10/8/1999			

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750-185-002-HRL Japan	2000-6927 1/14/2000	3160273 2/16/2001	[InfraRed #3] SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date 09/414,505 10/8/1999	Tax Due: 2/16/2004 Expires: 1/14/2020		
750-185-002-HRL Korea South	2000-0001624 1/14/2000	0370228 1/16/2003	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date 09/414,505 10/8/1999	Tax Due: 1/16/2006 Expires: 1/14/2020		
750-185-002-HRL Mexico	559 1/14/2000		SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date 09/414,505 10/8/1999	Tax Due: Expires:		
750-185-002-HRL Taiwan	89100550 1/14/2000	505701 10/11/2003	SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date 09/414,505 10/8/1999	Tax Due: 10/10/2003 Expires: 1/13/2020		
750-185-003-SPP United States	10/218741 8/14/2002		["BOF Bath Level-Meth"] APPARATUS AND METHOD FOR MEASURING BATH LEVEL IN A BASIC OXYGEN FURNACE TO
Parent No./Date 6440355 9/6/2000	Tax Due: Expires:		
750-185-003-SPP United States	09/656317 9/6/2000	6440355 8/27/2002	["BOF Bath Level-App"] APPARATUS AND METHOD FOR MEASURING BATH LEVEL IN A BASIC OXYGEN FURNACE TO
Parent No./Date Submission 3/17/1999	Tax Due: 2/27/2006 Expires: 9/6/2020		

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750-220-002-BIE Canada	391492 12/4/1981	1177436 11/6/1984	METHOD OF CONTROLLING A COKING CYCLE PROBE SUPPLYING AN ELECTRICAL SIGNAL
Parent No./Date	Tax Due:		
	Expires: 12/4/2001		
750-260-002-BTL Canada	2192121 12/5/1996	2192121 9/21/1999	APPARATUS AND METHOD FOR MEASURING TEMPERATURE AND/OR EMISSION OF A STEEL STRIP DURING A COATING PROCESS
Parent No./Date	Tax Due: 12/5/2003		
08/616894	Expires: 12/5/2016		
3/15/1996			
750-260-002-HRL United States	08/616894 3/15/1996	5690430 11/25/1997	APPARATUS AND METHOD FOR MEASURING TEMPERATURE AND/OR EMISSION OF A STEEL STRIP DURING A COATING PROCESS
Parent No./Date	Tax Due: 5/25/2005		
	Expires: 3/15/2016		
750-300-006-LUK United States	09/862158 5/21/2001	6543151 4/8/2003	[Determining Diameter] APPARATUS FOR DETERMINING DIAMETER OF AN OBJECT AND METHOD THEREOF
Parent No./Date	Tax Due: 10/8/2006		
SUBMISSION	Expires: 5/21/2021		
10/3/2000			
750-300-013-HRL Canada	472605 1/22/1985	1236913 5/17/1988	INSPECTION OF THE INTERNAL PORTION OF OBJECTS USING ULTRASONICS
Parent No./Date	Tax Due:		
5451-5	Expires: 5/17/2005		
750-360-006-HRL United States	09/085916 5/28/1998	6131473 10/17/2000	RETRACTABLE HUMIDITY SENSOR FOR USE IN CORROSION TEST CHAMBERS
Parent No./Date	Tax Due: 4/17/2004		
SUBMISSION	Expires: 5/28/2018		
10/14/1997			

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Docket Number	Appln. No.	Patent No.	Title
750-511-029-BHP United States	147895 1/25/1988	4928257 5/22/1990	METHOD AND APPARATUS FOR MONITORING THE THICKNESS PROFILE OF A STRIP
Parent No./Date SUBMISSION 10/17/1987	Tax Due: Expires: 1/25/2008		
750-511-001-BIE Canada	432649 7/18/1983	1214887 12/2/1986	RADIATION SCANNING AND MEASURING DEVICE
Parent No./Date 750-511-023	Tax Due: Expires: 12/2/2003		
750-511-002-HRL United States	204588 6/9/1988	4951222 8/21/1990	METHOD & SYSTEM FOR DIMENSIONAL AND WEIGHT MEASUREMENTS OF ARTICLES OF MANUFACTURE BY COMPUTERIZED
Parent No./Date	Tax Due: Expires: 6/9/2008		
750-511-002-HRL United States	541284 6/20/1990	5091862 2/25/1992	METHOD & SYS. FOR DIMENSIONAL & WEIGHT MEASUREMENTS OF ARTICLES OF MANUFACTURE BY COMPUTERIZED TOMOGRAPHY
Parent No./Date 4951222 6/9/1988	Tax Due: 8/25/2003 Expires: 2/25/2009		
750-511-003-BTL Canada	2141813 8/2/1993	2141813 1/25/2000	ONLINE TOMOGRAPHIC GAUGING OF SHEET METAL
Parent No./Date PCT/US93/07294 8/2/1993	Tax Due: 8/2/2003 Expires: 8/2/2013		
Parent No. 2141813 owned jointly with Scientific Measurement System, Inc.			
750-511-003-BTL European Patent Conv	93918611.0 8/2/1993	0705420 B1 1/15/2003	ONLINE TOMOGRAPHIC GAUGING OF SHEET METAL
Parent No./Date PCT/US93/07294 8/2/1993	Tax Due: 8/31/2003 Expires: 8/2/2013		
Parent No. 0705420 owned jointly with Scientific Measurement System, Inc.			
750-511-003-BTL Taiwan	82106825 8/24/1993	68227 2/17/1995	ONLINE TOMOGRAPHIC GAUGING OF SHEET METAL
Parent No./Date 914101 8/3/1992	Tax Due: 9/30/2003 Expires: 8/24/2013		
Parent 68227 owned jointly with Scientific Measurement System, Inc.			

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75-51-003-HRL	924105	5351203	ONLINE TOMOGRAPHIC GAUGING OF SHEET METAL
United States	8/3/1992	9/27/1994	
Patent No./Date	Tax Due: 3/27/2006		
	Expires: 8/3/2012		

Patent No. 5351203 owned jointly with Scientific Measurement System, Inc.

80-111-002-BTL	19929/88	615458	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Australia	6/9/1988	4/29/1994	
Patent No./Date	Tax Due: 6/9/2003		
PC1/US88/01879	Expires: 6/9/2008		
6/9/1988			

80-111-002-BTL	88906314.5	0363429	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Austria	6/9/1988	2/24/1993	
Patent No./Date	Tax Due: 6/30/2003		
PC1/US88/01879	Expires: 6/9/2008		
6/9/1988			

80-111-002-BTL	88906314.5	0363429	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Belgium	6/9/1988	2/24/1993	
Patent No./Date	Tax Due: 6/30/2003		
PC1/US88/01879	Expires: 6/9/2008		
6/9/1988			

80-111-002-BTL	2016152	2016152	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Canada	5/7/1990	11/11/1995	
Patent No./Date	Tax Due: 5/7/2003		
349006	Expires: 5/7/2010		
5/9/1989			

80-111-002-BTL	2038996	2038996	COMPOSITION AND PROCESS FOR FORMING LOW PERMEABILITY BARRIERS FOR WASTE DISPOSAL SITES
Canada	3/25/1991	8/27/1996	
Patent No./Date	Tax Due: 3/25/2003		
443950	Expires: 3/25/2011		
3/26/1990			

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800-111-002-BTL Canada	569828 6/17/1988	1297502 3/17/1992	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date 068605 6/18/1987	Tax Due: 3/17/2003 Expires: 3/17/2009		
800-111-002-BTL Denmark	6379/89 6/9/1988	172051 9/29/1997	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
800-111-002-BTL European Patent Conv	88906314.5 6/9/1988	363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: Expires: 6/9/2008		
800-111-002-BTL Finland	896036 6/9/1988	100093 9/30/1997	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
800-111-002-BTL France	88906314.5 6/9/1988	363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
800-111-002-BTL Great Britain	88906314.5 6/9/1988	0363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/9/2003 Expires: 6/9/2008		

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880-111-002-BTL West Germany	88906314.5 6/9/1988	P3878691.5-08 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
880-111-002-BTL Italy	88906314.5 6/9/1988	0363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
880-111-002-BTL Luxembourg	88906314.5 6/9/1988	0363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
880-111-002-BTL Mexico	11904 6/15/1988	168796 6/8/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST (SUPER DETOX)
Parent No./Date 083605	Tax Due: 6/15/2006 Expires: 6/15/2008		
880-111-002-BTL Netherlands	88906314.5 6/9/1988	0363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
880-111-002-BTL Norway	895024 6/9/1988	300095 4/7/1997	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		

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800-111-002-BTL South Africa	88/3753 5/26/1988	88/3753 3/29/1989	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date 063605 6/18/1987	Tax Due: 5/26/2003 Expires: 5/26/2008		
800-111-002-BTL Spain	8801902 6/17/1988	2006985 5/16/1989	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date 063605 6/18/1987	Tax Due: 6/17/2003 Expires: 6/17/2008		
800-111-002-BTL Sweden	88906314.5 6/9/1988	0363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCF/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
800-111-002-BTL Taiwan	77104866 6/15/1988	44685 2/1/1991	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date 063605 6/18/1987	Tax Due: 1/31/2004 Expires: 6/15/2008		
800-111-002-BTL U.S.S.R.	4742838.02 6/9/1988	2046112 6/9/1988	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date PCF/US88/01879 6/9/1988	Tax Due: 6/9/2003 Expires: 6/9/2008		
800-111-002-BTL Venezuela	1177/88 7/28/1988	51036 10/20/1994	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date 063605 6/18/1987	Tax Due: 7/28/2003 Expires: 7/28/2008		

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800-111-002-HRL United States	227438 7/29/1988	4840671 6/20/1989	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date 068605 6/8/1987	Tax Due: Expires: 6/18/2007		
800-111-002-HRL United States	349006 5/9/1989	4911757 3/27/1990	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
Parent No./Date 068605 6/8/1987	Tax Due: Expires: 6/18/2007		
800-111-002-HRL United States	498950 3/26/1990	5259697 11/9/1993	COMPOSITION AND PROCESS FOR FORMING LOW PERMEABILITY BARRIERS FOR WASTE DISPOSAL SITES
Parent No./Date 068605 6/8/1987	Tax Due: 5/9/2005 Expires: 11/9/2010		
800-111-003-BTL Australia	76754/94 8/25/1994	675354 6/12/1997	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/25/2003 Expires: 8/25/2014		
800-111-003-BTL Austria	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-003-BTL Belgium	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		

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800-111-003-BTL Canada	2156823 8/25/1994		METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/25/2003 Expires:		
800-111-003-BTL European Patent Conv	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: Expires: 8/25/2014		
800-111-003-BTL France	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-003-BTL Great Britain	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/25/2003 Expires: 8/25/2014		
800-111-003-BTL West Germany	94927248.8 8/25/1994	694 14 373 T2 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-003-BTL Italy	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCT/US94/09659 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		

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800-111-003-BTL Japan	07-518461 8/25/1994		METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCP/US94/09659 8/25/1994	Tax Due: Expires:		
800-111-003-BTL Mexico	949012 11/21/1994	192288 6/9/1999	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCP/US94/09659 8/25/1994	Tax Due: 11/21/2004 Expires: 11/21/2014		
800-111-003-BTL Netherlands	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCP/US94/09659 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-003-BTL Sweden	94927248.8 8/25/1994	0687309 11/4/1998	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date PCP/US94/09659 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-003-BTL Taiwan	83108352 9/9/1994	116960 11/6/2000	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date 178671 1/6/1994	Tax Due: 6/20/2003 Expires: 9/9/2014		
800-111-003-ENV United States	178671 1/6/1994	5435835 7/25/1995	METHOD AND SYSTEM FOR REMOVING OR CAUSING RECYCLING OF MATERIALS
Parent No./Date SUBMISSION 1/16/1992	Tax Due: 1/25/2007 Expires: 1/6/2014		

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Country			
800-111-004-BTL Australia	79536/94 8/25/1994	679272 11/13/1997	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/25/2003 Expires: 8/25/2014		
800-111-004-BTL Austria	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-004-BTL Belgium	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-004-BTL Canada	2156824 8/25/1994	2156824 4/13/1999	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/25/2003 Expires: 8/25/2014		
800-111-004-BTL European Patent Conv	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: Expires: 8/25/2014		
800-111-004-BTL France	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		

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Docket Number	Appln. No.	Patent No.	Title
800-111-004-BTL Great Britain	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/25/2003 Expires: 8/25/2014		
800-111-004-BTL West Germany	94930408.3 8/25/1994	69408525 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date 0687349 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-004-BTL Italy	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-004-BTL Japan	07-518462 8/25/1994		METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: Expires:		
800-111-004-BTL Korea South	95-703560 8/25/1994	317142 11/28/2001	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 11/28/2004 Expires: 8/25/2014		
800-111-004-BTL Luxembourg	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PC1/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		

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Country			
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8:0-111-004-BTL Mexico	948014 10/17/1994	191927 5/6/1999	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date 1 9022	Tax Due: 10/17/2004 Expires: 10/17/2014		
8:0-111-004-BTL Netherlands	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date E/T/US94/09670 8:25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
8:0-111-004-BTL Sweden	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date E/T/US94/09670 8:25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
8:0-111-004-ENV United States	179022 1/7/1994	5382279 1/17/1995	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date SUBMISSION 1:16/1992	Tax Due: 7/17/2006 Expires: 1/7/2014		
8:0-111-006-ENV United States	08/841138 4/29/1997	5792364 8/11/1998	WASTEWATER TREATMENT PROCESS FOR VACUUM DEGASSER EFFLUENT
Parent No./Date SUBMISSION 11/25/1995	Tax Due: 2/11/2006 Expires: 4/29/2017		
8:0-111-007-ENV United States	08/916172 8/21/1997	6007601 12/28/1999	LIME ENHANCED PRESSURE FILTRATION OF IRON AND STEELMAKING SLUDGE
Parent No./Date SUBMISSION 1 /28/1995	Tax Due: 6/28/2003 Expires: 8/21/2017		

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Country			
800-161-005-ENV	08/719747	5766450	APPARATUS FOR MAGNETIC
United States	9/25/1996	6/16/1998	FILTRATION OF WASTEWATERS
			CONTAINING OIL-COATED SCALE
Parent No./Date	Tax Due: 12/16/2005		
SUBMISSION	Expires: 9/25/2016		
8/18/1995			
800-161-005-ENV	09/010435	5989435	METHOD FOR MAGNETIC FILTRATION
United States	1/21/1998	11/23/1999	OF WASTEWATERS CONTAINING
			OIL-COATED SCALE
Parent No./Date	Tax Due: 5/23/2003		
08/719747	Expires: 9/25/2016		
9/15/1996			
800-161-007-ENV	09/680095	6387175	ROADWAY BASE INTERMEDIATE,
United States	10/5/2000	5/14/2002	ROADWAY BASE, AND METHODS OF
			MANUFACTURE
Parent No./Date	Tax Due: 11/14/2005		
SUBMISSION	Expires: 10/5/2020		
11/11/1999			
Parent No. 6387175 owned jointly with Environmental Recycling Technologies, Inc..			
800-180-002-HRL	726931	5192418	METAL RECOVERY METHOD AND
United States	7/8/1991	3/9/1993	SYSTEM FOR ELECTROPLATING
			WASTES
Parent No./Date	Tax Due: 9/9/2004		
SUBMISSION	Expires: 7/8/2011		
12/21/1989			
800-100-006-HRL	08/409219	5552235	EMBOSSSED COLD ROLLED STEEL
United States	3/23/1995	9/3/1996	SHEET WITH GOOD CORROSION AND
			PAINTABILITY PROPERTIES
Parent No./Date	Tax Due: 3/3/2004		
SUBMISSION	Expires: 3/23/2015		
3/3/1995			
800-100-006-HRL	08/697562	5780726	METHOD OF DETERMINING SLOPE
United States	8/28/1996	7/14/1998	ANGLES OF IMPRESSION WALLS AND
			DEPTHS OF IMPRESSIONS ON AN
			EMBOSSSED SHEET SURFACE
Parent No./Date	Tax Due: 1/14/2006		
08/409219	Expires: 3/23/2015		
3/23/1995			

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Country			
850-100-007-HRL United States	09/149990 9/9/1998	6138374 10/31/2000	APPARATUS AND METHOD FOR MEASURING COATING THICKNESS ON A SUBSTRATE
Parent No./Date SUBMISSION 8/8/1997	Tax Due: 4/30/2004 Expires: 9/9/2018		
850-110-008-HRL United States	795300 11/5/1985	4662950 5/5/1987	METHOD OF MAKING A STEEL PLATE FOR CONSTRUCTION APPLICATIONS
Parent No./Date	Tax Due: Expires: 11/5/2005		
850-124-007-BET United States	08/383120 2/2/1995	5623845 4/29/1997	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
Parent No./Date SUBMISSION 9/ /1991	Tax Due: 10/29/2004 Expires: 2/2/2015		
850-124-007-BTL Australia	40098/95 10/23/1995	700041 4/1/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
Parent No./Date PCP/US95/13740 10/23/1995	Tax Due: 10/23/2003 Expires: 10/23/2015		
850-124-007-BTL Australia	95 938879.4 10/23/1995	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
Parent No./Date PCP/US95/13740 10/23/1995	Tax Due: 10/31/2003 Expires: 10/23/2015		
850-124-007-BTL Belgium	95 938879.4 10/23/1995	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
Parent No./Date PCP/US95/13740 10/23/1995	Tax Due: 10/31/2003 Expires: 10/23/2015		
850-124-007-BTL China P.R.	95197501.3 10/23/1995	95197501.3 2/10/2001	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
Parent No./Date PCP/US95/13740 10/23/1995	Tax Due: 10/23/2003 Expires: 10/23/2015		

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880-124-007-BTL France Parent No./Date PCT/US95/13740 10/23/1995	95 938879.4 10/23/1995 Tax Due: 10/31/2003 Expires: 10/23/2015	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
880-124-007-BTL Great Britain Parent No./Date PCT/US95/13740 10/23/1995	95 938879.4 10/23/1995 Tax Due: 10/23/2003 Expires: 10/23/2015	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
880-124-007-BTL West Germany Parent No./Date PCT/US95/13740 10/23/1995	95 938879.4 10/23/1995 Tax Due: 10/31/2003 Expires: 10/23/2015	69508797.5 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
880-124-007-BTL Italy Parent No./Date PCT/US95/13740 10/23/1995	95 938879.4 10/23/1995 Tax Due: 10/31/2003 Expires: 10/23/2015	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
880-124-007-BTL Japan Parent No./Date PCT/US95/13740 10/23/1995	08-523499 10/23/1995 Tax Due: 12/11/2003 Expires: 10/23/2015	2863011 12/11/1998	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
880-124-007-BTL Korea South Parent No./Date PCT/US95/13740 10/23/1995	704991 10/23/1995 Tax Due: 10/11/2003 Expires: 10/23/2015	237732 10/11/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
880-124-007-BTL Luxembourg Parent No./Date PCT/US95/13740 10/23/1995	95 938879.4 10/23/1995 Tax Due: 10/31/2003 Expires: 10/23/2015	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS

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850-124-007-BTL Poland Parent No./Date PCT/US95/13740 10/23/1995	P 321463 10/23/1995 Tax Due: 10/23/2003 Expires: 10/23/2015	178952 12/3/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
850-124-007-BTL South Africa Parent No./Date 08/383120 2/2/1995	95/9301 11/3/1995 Tax Due: 11/3/2003 Expires: 11/3/2015	95/9301 7/31/1996	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
850-124-007-BTL Spain Parent No./Date PCT/US95/13740 10/23/1995	95 938879.4 10/23/1995 Tax Due: 10/23/2003 Expires: 10/23/2015	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
850-124-007-BTL Taiwan Parent No./Date 08/383120 2/2/1995	84111476 10/30/1995 Tax Due: 7/20/2003 Expires: 10/30/2015	96273 12/3/1998	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
850-124-008-BET United States Parent No./Date SUBMISSION 1/28/1993	08/086074 7/1/1993 Tax Due: 8/7/2006 Expires: 7/1/2013	5386869 2/7/1995	VARIABLE FLANGE BEAM BLANK AND METHOD OF CONTINUOUS CASTING
850-124-008-BET United States Parent No./Date 08/074 7/1/1993	08/315159 9/29/1994 Tax Due: 10/1/2004 Expires: 4/1/2014	5616425 4/1/1997	BEAM BLANKS FOR DIRECT ROLLING AS CAST INTO FINISHED PRODUCTS
850-124-008-BET Australia Parent No./Date PCT/US93/09485 10/5/1993	93923245.0 10/5/1993 Tax Due: 10/31/2003 Expires: 10/5/2013	0706430 7/28/1999	METHOD OF CONTINUOUS CASTING A VARIABLE FLANGE BEAM BLANK

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Docket Number	Appln. No.	Patent No.	Title
850-124-008-BET Canada Parent No./Date PCT/US93/09485 10/5/1993	2165289 10/5/1993 Tax Due: 10/5/2003 Expires:		VARIABLE THICKNESS BEAM BLANKS
850-124-008-BET European Patent Conv Parent No./Date PCT/US93/09485 10/5/1993	93923245.0 10/5/1993 Tax Due: Expires: 10/5/2013	0706430 7/28/1999	METHOD OF CONTINUOUS CASTING A VARIABLE FLANGE BEAM BLANK
850-124-008-BET Great Britain Parent No./Date PCT/US93/09485 10/5/1993	93923245.0 10/5/1993 Tax Due: 10/5/2003 Expires: 10/5/2013	0706430 7/28/1999	METHOD OF CONTINUOUS CASTING A VARIABLE FLANGE BEAM BLANK
850-124-008-BET West Germany Parent No./Date PCT/US93/09485 10/5/1993	93923245.0 10/5/1993 Tax Due: 10/31/2003 Expires: 10/5/2013	69325821.71 7/28/1999	METHOD OF CONTINUOUS CASTING A VARIABLE FLANGE BEAM BLANK
850-124-008-BET Italy Parent No./Date PCT/US93/09485 10/5/1993	93923245.0 10/5/1993 Tax Due: 10/31/2003 Expires: 10/5/2013	0706430 7/28/1999	METHOD OF CONTINUOUS CASTING A VARIABLE FLANGE BEAM BLANK
850-124-008-BET Japan Parent No./Date PCT/US93/09485 10/5/1993	7/503453 10/5/1993 Tax Due: 5/14/2003 Expires: 10/5/2013	2926688 5/14/1999	VARIABLE THICKNESS BEAM BLANKS
850-124-008-BET Korea South Parent No./Date PCT/US93/09485 10/5/1993	95-705971 10/5/1993 Tax Due: 3/31/2003 Expires: 10/5/2013	205082 3/31/1999	VARIABLE THICKNESS BEAM BLANKS

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800-124-008-BET	93/06940	186916	VARIABLE THICKNESS BEAM BLANKS
Mexico	11/5/1993	11/7/1997	
Parent No./Date	Tax Due: 11/5/2007		
086074	Expires: 11/5/2013		
800-124-008-BET	PCT/US93/09485		VARIABLE FLANGE BEAM BLANK
Patent Cooperation T	10/5/1993		AND METHOD OF CONTINUOUS
			CASTING
Parent No./Date	Tax Due:		
08/086074	Expires:		
7/1/1993			
800-124-008-BET	93/7666	93/7666	VARIABLE THICKNESS BEAM BLANKS
South Africa	10/15/1993	7/27/1994	
Parent No./Date	Tax Due: 10/15/2003		
086074	Expires: 10/15/2013		
7/1/1993			
800-420-002-STL	602776	4566630	BOLTLESS FRICTION-FIT
United States	4/23/1984	1/28/1986	ADJUSTABLE RAIL BRACE
Parent No./Date	Tax Due:		
	Expires: 4/23/2004		
800-420-009-STL	313271	D317278	ADJUSTABLE FROG CLAMP HAVING
United States	2/21/1989	6/4/1991	AN INCLINED SERRATED FRICTION
			ENGAGING SURFACE
Parent No./Date	Tax Due:		
SUBMISSION	Expires: 6/4/2005		
3/10/1988			
800-420-010-STL	313252	D317141	ADJUSTABLE FROG CLAMP HAVING A
United States	2/21/1989	5/28/1991	VERTICAL SERRATED FRICTION
			ENGAGING SURFACE
Parent No./Date	Tax Due:		
SUBMISSION	Expires: 5/28/2005		
3/10/1988			
800-420-011-STL	679881	5094387	ADJUSTABLE HOOK FLANGE GUARD
United States	4/3/1991	3/10/1992	RAIL
Parent No./Date	Tax Due: 9/10/2003		
SUBMISSION	Expires: 4/3/2011		
3/10/1989			

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Country			
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8 0-420-012-STL	583776	5115970	ADJUSTABLE SWITCH POINT GUARD
United States	9/14/1990	5/26/1992	RAIL
Parent No./Date	Tax Due: 11/26/2003		
SUBMISSION	Expires: 9/14/2010		
12/19/1989			

8 0-420-012-STL	866379	5169064	ADJUSTABLE SWITCH POINT GUARD
United States	4/9/1992	12/8/1992	RAIL
Parent No./Date	Tax Due: 6/8/2004		
583776	Expires: 9/14/2010		
9 14/1990			

8 0-421-002-SPP	08/609043	5705818	METHOD AND APPARATUS FOR
United States	2/29/1996	1/6/1998	DETECTING RADIOACTIVE
			CONTAMINATION IN STEEL SCRAP
Parent No./Date	Tax Due: 7/6/2005		
SUBMISSION	Expires: 2/29/2016		
5 10/1995			

8 0-702-004-MRK	09/264991		STRUCTURAL SHAPE FOR USE IN
United States	1/4/1999		FRAME CONSTRUCTION
Parent No./Date	Tax Due:		
5865008	Expires:		
10/14/1997			

Being assigned to Steel Construction Systems, a partnership, Bethlehem Steel Corporation's interest in which is being sold to International Steel Group.

8 0-702-004-MRK	08/950343	5865008	STRUCTURAL SHAPE FOR USE IN
United States	10/14/1997	2/2/1999	FRAME CONSTRUCTION
Parent No./Date	Tax Due: 8/2/2006		
SUBMISSION	Expires: 10/14/2017		

Being assigned to Steel Construction Systems, a partnership, Bethlehem Steel Corporation's interest in which is being sold to International Steel Group.

8 0-702-004-MRK	09/256167	6199341	CONNECTION FOR A LIGHTWEIGHT
United States	2/23/1999	3/13/2001	STEEL FRAME SYSTEM
Parent No./Date	Tax Due: 9/13/2004		
SUBMISSION	Expires: 2/23/2019		
6 3/1998			

8 0-702-004-MRK	PI9813051-0		STRUCTURAL SHAPE FOR USE IN
Brazil	7/15/1998		FRAME CONSTRUCTION
Parent No./Date	Tax Due: 7/15/2003		
PCT/US98/14907	Expires:		
7/15/1998			

Being assigned to Steel Construction Systems, a partnership, Bethlehem Steel Corporation's interest in which is being sold to International Steel Group.

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850-702-004-MRK	2305170		STRUCTURAL SHAPE FOR USE IN
Canada	7/15/1998		FRAME CONSTRUCTION
Patent No./Date	Tax Due: 7/15/2003		
PCT/US98/14907	Expires:		
7/15/1998			

Being assigned to Steel Construction Systems, a partnership, Bethlehem Steel Corporation's interest in which is being sold to International Steel Group.

850-702-004-MRK	3374		STRUCTURAL SHAPE FOR USE IN
Mexico	7/15/1998		FRAME CONSTRUCTION
Patent No./Date	Tax Due:		
PCT/US98/14907	Expires:		
7/15/1998			

Being assigned to Steel Construction Systems, a partnership, Bethlehem Steel Corporation's interest in which is being sold to International Steel Group.

850-702-005-HRL	08/874015	5791100	RESIDENTIAL STEEL DECKING
United States	6/12/1997	8/11/1998	
Patent No./Date	Tax Due: 2/11/2006		
SUBMISSION	Expires: 6/12/2017		
8/7/1996			

850-705-001-HRL	09/832995	6505492	[Hydroforming] METHOD AND
United States	4/11/2001	1/14/2003	APPARATUS FOR FORMING

DEEP-DRAWN ARTICLES

Patent No./Date	Tax Due: 7/14/2006
Submission	Expires: 4/11/2021
10/24/2000	

850-910-002-FIN	10/035246		METHOD FOR PROVIDING CUSTOMER
United States	1/4/2002		CONTROLLED CREDIT INFORMATION
			TO A THIRD PARTY INQUIRY

Patent No./Date	Tax Due:
60/259,867	Expires:
1/3/2001	

850-910-002-FIN	PCT/US02/00253		[Credit Information Online
Patent Cooperation T	1/7/2002		System] METHOD FOR PROVIDING
			CUSTOMER CONTROLLED CREDIT
			INFORMATION TO A THIRD PARTY
Patent No./Date	Tax Due:		
60/259,867	Expires:		
1/3/2001			

Notes:

1. All patents and patent applications are owned by Bethlehem Steel Corporation unless otherwise marked.
2. The inclusion of any patent or patent application is not an admission that it is material.