

05-19-2003

Form PTO-1595 (Rev. 10/02)

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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

102451105

Tab settings

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

1. Name of conveying party(ies):

Bethlehem Steel Corporation

S-14-03

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)

B. Patent No.(s) 5785737; 6241805; 6126714; 6136066; 6383250; 6514312;

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: 94

7. Total fee (37 CFR 3.41).....\$ 3760.00

- 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

*Jay L. Lazar*  
Signature

5/14/2003

Date

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

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

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

PATENT REEL: 014033 FRAME: 0881

Page 2 of Recordation Form Cover Sheet

Continuation of Item 4, Patent Numbers Assigned

5147452	6468674	6138374
5941445	5795661	4662950
6036079	6157899	5623845
6080223	4840712	5386869
5853656	5660707	5616425
6086817	5714049	4566630
6500224	5538617	5094387
5100613	6428851	5115970
5326527	5196071	5169064
5514227	6059562	5705818
5507886	5275488	5791100
5556485	5610346	6505492
5656102	6175676	
5858130	5785772	RE35685
6270594	6528790	RE37922
5387392	5968227	
6187117	6129888	
6238493	6197086	
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5551672	6131473	
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5078016	4951222	
5649889	5091862	
5321875	4840671	
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5083754	5259697	
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6491761	5989435	
5675880	6387175	
5794658	5192418	
5238510	5552235	
6440582	5780726	

**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.

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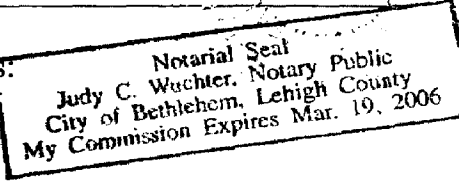
IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be duly executed as of the date first above written.

**BETHLEHEM STEEL CORPORATION**

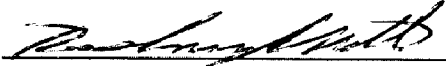
By: *B. E. Derrico*  
Name: B. E. Derrico  
Title: Treasurer

STATE OF )  
                  ) SS: Pennsylvania  
COUNTY OF ) Lehigh

On this *20th* 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.

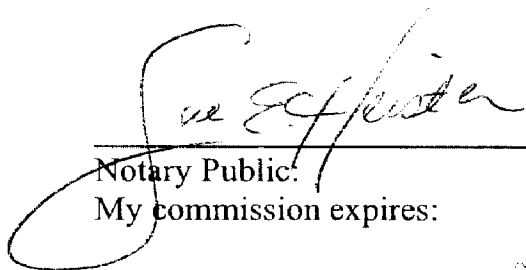
*Judy C. Wuchter*  
Notary Public:  
My commission expires: 

ISG TECHNOLOGIES INC.

By:   
Name: Rodney B. Mott  
Title: President

STATE OF Ohio )  
                                  ) SS:  
COUNTY OF Summit )

On this 28<sup>th</sup> 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.)

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

Docket Number	Appln. No.	Patent No.	Title
100-115-003-BTL Canada	429107 5/27/1983	1204081 5/6/1986	SYSTEM FOR CONTROLLING SEPARATING GRAVITY IN DENSE-MEDIA CYCLONE
Parent No./Date	Tax Due: Expires: 5/27/2003		
100-114-005-BTL Canada	429966 6/8/1983	1187284 5/21/1985	METHOD FOR INCREASING THE WET BULK DENSITY OF COKING COALS
Parent No./Date	Tax Due: Expires: 6/8/2003		
100-305-017-BTL Canada	2278495 1/22/1998		METHOD FOR RECYCLING IRON BEARING SLUDGES IN A STEELMAKING OPERATION
Parent No./Date PC/US98/01019 1/22/1998	Tax Due: 1/22/2004 Expires:		
100-305-017-ENV United States	08/835168 4/8/1997	5785737 7/28/1998	METHOD FOR RECYCLING IRON BEARING SLUDGES IN A STEELMAKING OPERATION
Parent No./Date SUBMISSION 10/28/1996	Tax Due: 1/28/2006 Expires: 4/8/2017		
100-305-017-ENV United States	09/359776 7/26/1999	6241805 6/5/2001	METHOD AND SYSTEM FOR IMPROVING THE EFFICIENCY OF A BASIC OXYGEN FURNACE
Parent No./Date SUBMISSION 4/30/1999	Tax Due: 12/5/2004 Expires: 7/26/2019		
100-305-017-ENV United States	09/330181 6/15/1999	6126714 10/3/2000	METHOD FOR RECYCLING IRON BEARING SLUDGES IN A STEELMAKING OPERATION
Parent No./Date 08/835168 4/8/1997	Tax Due: 4/3/2004 Expires: 4/8/2017		



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Docket Number	Appln. No.	Patent No.	Title
100-305-017-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 08/835168 4/8/1997	Tax Due: 4/24/2004 Expires: 4/8/2017		
100-305-022-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		
100-305-023-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		
100-400-001-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		
<b>Patent No. 5,147,452 owned jointly with Betz Laboratories</b>			
150-101-014-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		
150-101-014-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	Appln. No.	Patent No.	Title
Country			
200-110-005-SPP United States	10/051165 1/22/2002		[Coal Injection Anti-Plugging by Temperature Sensing] Method and Apparatus for Clearing a Powder Accumulation in a
Parent No./Date Submission 3/5/2001	Tax Due: Expires:		
200-200-001-BIE Canada	429137 5/30/1983	1216156 1/6/1987	BLAST FURNACE CONTROL METHOD
Parent No./Date 385111 2/11/1982	Tax Due: Expires: 1/6/2004		
2002-COR-00011 United States	10/219723 8/15/2002		Metals Removal from Rainfall Runoff
Parent No./Date 3/11/2002	Tax Due: Expires:		
2002-COR-00016 United States	10/367518 2/14/2003		Submerged Entry Nozzle and Method for Maintaining a Quiet Casting Mold
Parent No./Date	Tax Due: Expires:		
2002-COR-00038 United States	10/350353 1/24/2003		[Shape Display/Expert System] Graphical Rolled Sheet Steel Flatness Display and Method of Using Same
Parent No./Date 1/21/2003	Tax Due: Expires:		
2002-COR-00039 United States	10/324323 12/20/2002		[Filter Distributor] Distributor Apparatus for Providing a Uniform Discharge of Material
Parent No./Date	Tax Due: Expires:		

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Docket Number	Appln. No.	Patent No.	Title
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250-100-009-BHP United States	08/889857 7/8/1997	5853656 12/29/1998	APPARATUS AND METHOD FOR COOLING A BASIC OXYGEN FURNACE TRUNNION RING
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Parent No./Date  
SUBMISSION  
4/8/1997

Tax Due: 6/29/2006  
Expires: 7/8/2017

250-100-010-SPP United States	09/174528 10/16/1998	6086817 7/11/2000	OFF-GAS HOOD FOR A BASIC OXYGEN FURNACE AND METHOD OF REPAIR
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Parent No./Date

Tax Due: 1/11/2004  
Expires: 10/16/2018

250-100-011-HRL United States	10/029897 12/21/2001		APPARATUS AND METHOD FOR DELIVERING AN INERT GAS TO PREVENT PLUGGING IN A SLIDE GATE
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Parent No./Date  
Submission  
3/16/2001

Tax Due:  
Expires:

250-300-009-AR Argentina	020103811 10/9/2002		[Short: "Nitrogen Blow"] METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
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Parent No./Date  
09/975134  
10/11/2001

Tax Due:  
Expires:

250-300-009-AUL Australia	2002301248 9/30/2002		[Short: "Nitrogen Blow"] A METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
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Parent No./Date  
09/975134  
10/11/2001

Tax Due: 9/30/2007  
Expires:

250-300-009-BR Brazil	PI 0204151-0 10/11/2002		[Short: "Nitrogen Blow"] METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
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Parent No./Date  
09/975134  
10/11/2001

Tax Due: 10/11/2004  
Expires:

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Docket Number	Appln. No.	Patent No.	Title
Country			
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	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	Tax Due: 10/3/2004 Expires:		
09/975134 10/11/2001			
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	Tax Due: 10/31/2004 Expires:		
09/975134 10/11/2001			
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	Tax Due: Expires:		
09/975134 10/11/2001			
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	Tax Due: Expires:		
09/975134 10/11/2001			
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	Tax Due: Expires:		
09/975134 2/21/2001			

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Docket Number	Appln. No.	Patent No.	Title
Country			
250-300-009-TW Taiwan	91122541 9/30/2002		{Short: "Nitrogen Blow"} METHOD FOR OPERATING A STEELMAKING FURNACE DURING A STEELMAKING PROCESS
Parent No./Date 08/975134 10/11/2001	Tax Due: Expires:		
250-309-002-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		
250-309-003-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		
250-309-003-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		
250-309-003-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		
250-311-004-BIE Canada	411942 1/11/1983	1204305 5/13/1986	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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Bucket Number Country =====	Appln. No. =====	Patent No. =====	Title =====
250-311-013-HRL United States Parent No./Date 941453 9/8/1992	941453 9/8/1992 Tax Due: 1/5/2006 Expires: 9/8/2012	5326527 7/5/1994	TI BEARING LOW COST STRUCTURAL STEELS
250-311-013-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
250-311-013-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
250-311-014-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
250-311-014-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)
250-311-014-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
250-311-014-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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Bucket Number Country	Appln. No.	Patent No.	Title
200-311-014-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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Bucket Number Country	Appln. No.	Patent No.	Title
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
250-311-014-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
250-311-014-HRL United States Parent No./Date SUBMISSION 1/5/1996	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
250-311-017-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
250-311-017-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
250-311-019-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
250-312-012-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

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259-312-013-BTL Australia	44148/99 6/3/1999		METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
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Parent No./Date Tax Due: 6/3/2004  
 PC1/US99/12300 Expires:  
 1/20/1999

Application owned jointly with Pohang Iron and Steel Co.

259-312-013-BTL Brazil	PI9917087-6 6/3/1999		METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
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Parent No./Date Tax Due: 6/3/2003  
 PC1/US99/12300 Expires:  
 1/20/1999

Application owned jointly with Pohang Iron and Steel Co.

259-312-013-BTL Canada	2353407 6/3/1999		METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
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Parent No./Date Tax Due: 6/3/2003  
 PC1/US99/12300 Expires:  
 1/20/1999

Application owned jointly with Pohang Iron and Steel Co.

259-312-013-BTL China P.R.	99815699.X 6/3/1999		[Weathering Steel Plate] METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
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Parent No./Date Tax Due: 6/3/2003  
 PC1/US99/12300 Expires:  
 1/20/1999

Application owned jointly with Pohang Iron and Steel Co.

259-312-013-BTL European Patent Conv	99927179.4 6/8/2001		METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
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Parent No./Date Tax Due: 6/30/2003  
 PC1/US99/12300 Expires:  
 1/20/1999

Application owned jointly with Pohang Iron and Steel Co.

259-312-013-BTL Japan	2000-594966 6/3/1999		METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
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Parent No./Date Tax Due:  
 PC1/US99/12300 Expires:  
 1/20/1999

Application owned jointly with Pohang Iron and Steel Co.

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250-312-013-BTL Patent Cooperation T	PCT/US99/12300 6/3/1999		METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
Parent No./Date 09/233508 1/20/1999	Tax Due: Expires:		

Application owned jointly with Pohang Iron and Steel Co.

250-312-013-HRL United States	09/233508 1/20/1999	6187117 2/13/2001	METHOD OF MAKING AN AS-ROLLED MULTI-PURPOSE WEATHERING STEEL PLATE AND PRODUCT THEREFROM
Parent No./Date Submission 11/24/1998	Tax Due: 8/13/2004 Expires: 1/20/2019		

Application owned jointly with Pohang Iron and Steel Co.

250-312-014-HRL United States	09/245318 2/5/1999	6238493 5/29/2001	[Weathering Plate] METHOD OF MAKING A WEATHERING GRADE PLATE AND PRODUCT THEREFROM
Parent No./Date Submission 11/24/1998	Tax Due: 11/29/2004 Expires: 2/5/2019		

250-511-003-HRL United States	08/399685 3/7/1995	5603749 2/18/1997	APPARATUS AND METHOD FOR VACUUM TREATING MOLTEN STEEL
Parent No./Date SUBMISSION 4/27/1994	Tax Due: 8/18/2004 Expires: 3/7/2015		

300-100-004-HRL United States	059715 6/8/1987	4801056 1/31/1989	DISTRIBUTOR FOR CONTINUOUS CASTING MACHINE
Parent No./Date SUBMISSION	Tax Due: 7/31/2000 Expires: 6/8/2007		

300-105-004-BTL Canada	2082459 11/9/1992	2082459 10/10/1995	IMPACT PAD FOR A CONTINUOUS CASTER TUNDISH
Parent No./Date 838502 2/7/1992	Tax Due: 11/9/2003 Expires: 11/9/2012		

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300-105-004-HRL United States Parent No./Date 842520 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: 5/3/2003 Expires: 10/16/2015	262782 5/8/2000	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH

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300-105-006-BTL Luxembourg 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 Mexico Parent No./Date PCT/US95/12970	975271 7/11/1997 Tax Due: Expires:		FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-BTL Netherlands 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 Taiwan Parent No./Date 08/372,535 1/13/1995	84111477 10/30/1995 Tax Due: 8/20/2003 Expires: 10/30/2015	89385 1/6/1998	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-105-006-HRL United States Parent No./Date SUBMISSION 9/30/1994	08/372535 1/13/1995 Tax Due: 3/3/2004 Expires: 1/13/2015	5551672 9/3/1996	FLOW CONTROL IN A CONTINUOUS CASTER TUNDISH
300-109-001-HRL United States Parent No./Date SUBMISSION 3/14/1984	082393 8/6/1987 Tax Due: Expires: 8/6/2007	4784209 11/15/1988	CONTINUOUS CASTING APPARATUS
300-110-003-SPP United States Parent No./Date 385819 6/14/1989	619958 11/30/1990 Tax Due: 7/7/2003 Expires: 6/14/2009	5078016 1/7/1992	METHOD FOR USING LOAD CELL PIN FOR CONTINUOUS CASTER MOLDS SHLESINGER INSTRUCTED TO FILE DIVISIONAL

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300-111-002-SPP United States Parent No./Date SUBMISSION 4/4/1994	United States	08/319510 10/6/1994 Tax Due: 1/22/2005 Expires: 10/6/2014	5649889 7/22/1997	STRESS ALLEVIATING GUIDE ROLL
300-150-002-STG Canada Parent No./Date U.S. 786675 11/11/1985	Canada	522302 11/6/1986 Tax Due: Expires: 11/6/2006	1251225 3/14/1989	CONTINUOUS CASTING SLAG
300-300-005-HRL United States Parent No./Date	United States	08/081031 6/22/1993 Tax Due: 12/21/2005 Expires: 6/22/2013	5321875 6/21/1994	WELL BLOCK CENTERING TOOL
300-305-007-SPP United States Parent No./Date 509683 4/14/1990	United States	674481 3/25/1991 Tax Due: 9/30/2003 Expires: 4/14/2010	5100034 3/31/1992	MOLTEN METAL SLIDE GATE VALVE
300-305-010-BTL Mexico Parent No./Date 717963	Mexico	92/00226 1/17/1992 Tax Due: 1/17/2006 Expires: 1/17/2012	179259 8/22/1995	SLAG STOPPER
300-305-010-SPP United States Parent No./Date SUBMISSION 4/3/1990	United States	717963 6/20/1991 Tax Due: 7/28/2003 Expires: 6/20/2011	5083754 1/28/1992	APPARATUS FOR RETAINING SLAG DURING THE DISCHARGE OF MOLTEN STEEL FROM A BOF VESSEL
300-311-001-BTL Australia Parent No./Date 088443 8/24/1987	Australia	19755/88 7/25/1988 Tax Due: 7/25/2003 Expires: 7/25/2008	590163 2/22/1990	PROCESS FOR REHEATING MOLTEN STEEL CONTAINED IN A LADLE

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300-311-001-BTL Australia 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 CB8443 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 083443 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 083443 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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300-311-001-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
300-311-001-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
300-311-001-BTL Korea South Parent No./Date 088443 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
300-311-001-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
300-311-001-BTL Mexico Parent No./Date 088443	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
300-311-001-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
300-311-001-BTL South Africa Parent No./Date 088443 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 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 Belgium 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 Brazil Parent No./Date PCT/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 Canada Parent No./Date 088449 8/24/1987	564365 4/20/1988 Tax Due: 6/2/2003 Expires: 6/2/2009	1302081 6/2/1992	CONSUMABLE LANCE
300-311-002-BTL Canada Parent No./Date 288665 12/19/1988	609649 8/29/1989 Tax Due: 11/10/2003 Expires: 11/10/2009	1309863 11/10/1992	IMPROVED CONSUMABLE INJECTION LANCE
300-311-002-BTL European Patent Conv Parent No./Date PCP/US88/01713 5/24/1988	88906273.3 5/24/1988 Tax Due: Expires: 5/24/2008	377578 5/12/1993	CONSUMABLE LANCE
300-311-002-BTL France Parent No./Date PCP/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 Great Britain Parent No./Date PCP/US88/01713 5/24/1988	88906273.3 5/24/1988 Tax Due: 5/24/2003 Expires: 5/24/2008	377578 5/12/1993	CONSUMABLE LANCE
300-311-002-BTL West Germany Parent No./Date PCP/US88/01713 5/24/1988	88906273.3 5/24/1988 Tax Due: 5/31/2003 Expires: 5/24/2008	P3881053.0 5/12/1993	CONSUMABLE LANCE
300-311-002-BTL Italy Parent No./Date PCP/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

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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 PCE/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 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 283665	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 12/19/1988	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 Sweden Parent No./Date PNT/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-STL United States Parent No./Date SUBMISSION 12/16/1986	088449 8/24/1987 Tax Due: Expires: 8/24/2007	4792125 12/20/1988	CONSUMABLE LANCE
300-311-002-STL United States Parent No./Date 88449 8/24/1987	288665 12/19/1988 Tax Due: Expires: 8/24/2007	4852860 8/1/1989	IMPROVED CONSUMABLE INJECTION LANCE
350-110-002-SPP United States Parent No./Date Submission 3/18/1999	09/696835 10/26/2000 Tax Due: 12/25/2005 Expires: 10/26/2020	6408667 6/25/2002	A FOUR-HIGH MILL STAND ROLL CHANGE DEVICE, A METHOD FOR RETROFIT, AND A ROLL CHANGE DEVICE THEREFROM
350-300-008-BTL Canada Parent No./Date 08/848751 5/1/1997	2236440 4/30/1998 Tax Due: 4/30/2003 Expires:		METHOD FOR STECKEL MILL OPERATION
350-300-008-LUK United States Parent No./Date	08/848751 5/1/1997 Tax Due: 7/26/2006 Expires: 5/1/2017	5863361 1/26/1999	METHOD FOR STECKEL MILL OPERATION
300-300-009-BHP United States Parent No./Date Submission 6/18/1999	09/624113 7/24/2000 Tax Due: 6/10/2006 Expires: 7/24/2020	6491761 12/10/2002	"Stain Removal"] APPARATUS AND PROCESS FOR REMOVING STAINS FROM A STEEL SHEET IN A CONTINUOUS PICKLING LINE

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500-200-002-BHP United States	08/697763 8/29/1996	5675880 10/14/1997	DESCALING SYSTEM FOR USE IN THE MANUFACTURE OF STEEL AND CORRESPONDING METHOD
Parent No./Date SUBMISSION 1/1/1996	Tax Due: 4/14/2005 Expires: 8/29/2016		
500-200-002-BHP United States	08/853479 5/9/1997	5794658 8/18/1998	DESCALING SYSTEM FOR USE IN THE MANUFACTURE OF STEEL AND CORRESPONDING METHOD
Parent No./Date SUBMISSION 1/1/1996	Tax Due: 2/18/2006 Expires: 1/1/2016		
600-105-016-HRL United States	802386 12/4/1991	5238510 8/24/1993	FULL HARD GALVALUME SHEET
Parent No./Date 585097 8/10/1990	Tax Due: 2/24/2005 Expires: 8/24/2010		
600-105-020 United States	10/256643 9/27/2002		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 05/414766 11/7/1999	Tax Due: Expires:		
600-105-020 United States	10/105782 3/25/2002	6440582 B1 8/27/2002	["Brushed Min Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date 05/414766 11/7/1999	Tax Due: 2/27/2006 Expires: 10/7/2019		
600-105-020 United States	09/978794 10/18/2001	6468674 B2 10/22/2002	[Short: "Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date 05/414766 11/7/1999	Tax Due: 4/22/2006 Expires: 10/7/2019		

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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 11/105782 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 11/256643 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 11/256643 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 11/105782 11/7/1999	Tax Due: 7/15/2004 Expires:		

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Doc. Number	Appl. No.	Patent No.	Title
Country			
610-105-020 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:		
610-105-020 Canada	2413521 12/4/2002		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date 11/256643 9/27/2002	Tax Due: 12/4/2004 Expires:		
610-105-020 Canada	2391476 6/25/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, AND A COATED STEEL PRODUCT,
Parent No./Date 11/105782 11/7/1999	Tax Due: 6/25/2004 Expires:		
610-105-020 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:		
610-105-020 European Patent Conv	02014567.8 7/1/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, AND A COATED STEEL PRODUCT,
Parent No./Date 11/105782 3/25/2002	Tax Due: 7/31/2004 Expires:		
610-105-020 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 11/256643 9/27/2002	Tax Due: 12/31/2004 Expires:		



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Country			
600-105-020 Indonesia	W00200200229 1/28/2002		["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: Expires:		
600-105-020 Indonesia	P00200200845 12/19/2002		["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:		
600-105-020 Indonesia	P00200200473 8/2/2002		["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 Japan	2001-529472 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: Expires:		
600-105-020 Japan	2002-205490 7/15/2002		[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 Korea South	10-2002-7001402 2/1/2002		[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: Expires:		

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Country			
600-105-020 Korea South	2002-0077126 12/6/2002		["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:		
600-105-020 Korea South	2002-0041072 7/15/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date 11/105782 3/25/2002	Tax Due: Expires:		
600-105-020 Malaysia	PI 20020047 1/8/2002		[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: Expires:		
600-105-020 Malaysia	PI 20024584 12/5/2002		["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:		
600-105-020 Malaysia	PI 20022542 7/4/2002		["Brushed Min Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A STEEL PRODUCT
Parent No./Date 10/103782 10/7/1999	Tax Due: Expires:		
600-105-020 Mexico	PA/a/2002/001708 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: Expires:		

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Country	Appln. No.	Patent No.	Title
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	Tax Due:		
10/105782	Expires:		
10/7/1999			
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	Tax Due: 1/22/2006		
PT/US00/23164	Expires:		
8/24/2000			
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	Tax Due: 1/3/2007		
10/256643	Expires:		
9/27/2002			
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	Tax Due: 9/30/2006		
10/105782	Expires:		
10/7/1999			
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	Tax Due:		
00/414766	Expires:		
10/7/1999			
Taiwan	91137191 12/24/2002		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date	Tax Due:		
10/256643	Expires:		
9/27/2002			

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Taiwan	91114090 6/26/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date	Tax Due:		
10/105782	Expires:		
10/7/1999			
Thailand	079452 1/16/2003		["Controlled Min Spangle"] COMPOSITION FOR CONTROLLING SPANGLE SIZE, A COATED STEEL PRODUCT, AND A COATING METHOD
Parent No./Date	Tax Due:		
10/256643	Expires:		
9/27/2002			
Thailand	075162 7/12/2002		[Short: "Brushed Minimum Spangle"] A COATING COMPOSITION FOR STEEL PRODUCT, A COATED STEEL PRODUCT, AND A
Parent No./Date	Tax Due:		
10/105782	Expires:		
10/7/1999			
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		
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	Tax Due: 2/18/2006		
SUBMISSION	Expires: 7/10/2016		
4/28/1995			
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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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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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	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 12/5/1998	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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600-205-004-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 PCT/US96/14334 9/5/1996	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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750-110-007-BTL Australia	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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750-110-007-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 9/5/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
750-110-007-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 9/5/1996	Tax Due: 9/6/2003 Expires: 9/6/2016		
750-110-007-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 9/5/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
750-110-007-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 9/5/1996	Tax Due: 9/30/2003 Expires: 9/6/2016		
750-110-007-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 9/5/1996	Tax Due: 11/16/2004 Expires: 9/6/2016		
750-110-007-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 9/5/1996	Tax Due: 1/10/2005 Expires: 9/6/2016		

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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 9/5/1996	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 9/5/1996	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 9/5/1996	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	[Sharon Carbon Light Meter] METHOD AND APPARATUS TO DETERMINE AND CONTROL THE CARBON CONTENT OF STEEL IN A BOF VESSEL
Parent No./Date 5:03746 10/31/1995	Tax Due: 8/18/2004 Expires: 10/31/2015		

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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
750-131-001-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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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 08970098 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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710-185-002-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 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
710-185-002-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 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
710-185-002-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 087970098 11/13/1997	Tax Due: 4/13/2004 Expires: 4/15/2018		
710-185-002-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 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		
710-185-002-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 087970098 11/13/1997	Tax Due: 4/23/2006 Expires: 4/23/2018		
710-185-002-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 5968227 11/13/1997	Tax Due: 4/30/2003 Expires: 4/1/2018		

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Bucket Number Country	Appln. No.	Patent No.	Title
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 5958227 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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Australia	700-185-002-HRL 11346/00 1/14/2000		SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/14/2005		
09/414,505	Expires:		
10/8/1999			
Brazil	700-185-002-HRL PI0000533-9 1/14/2000		SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/14/2004		
09/414,505	Expires:		
10/8/1999			
Canada	700-185-002-HRL 2295386 1/13/2000		SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/13/2004		
09/414,505	Expires:		
10/8/1999			
China P.R.	700-185-002-HRL 00101088.3 1/14/2000		SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/14/2004		
09/414,505	Expires:		
10/8/1999			
European Patent Conv	700-185-002-HRL 00100458.9 1/11/2000		[InfraRed #3] SYSTEM AND METHOD FOR MINIMIZING SLAG CARRYOVER DURING THE PRODUCTION OF STEEL
Parent No./Date	Tax Due: 1/31/2004		
6197086	Expires:		
10/8/1999			
India	700-185-002-HRL 20/Ca1/2000 1/14/2000		SYSTEM AND METHOD FOR 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 3/7/1999	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 EMISSIVITY OF A STEEL STRIP DURING A COATING PROCESS
Parent No./Date	Tax Due: 12/5/2003 Expires: 12/5/2016		
08/616894 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 EMISSIVITY 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 Expires: 5/21/2021		
SUBMISSION 10/13/2000			
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: Expires: 5/17/2005		
5641-3			
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 Expires: 5/28/2018		
SUBMISSION 10/14/1997			

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750-510-029-BHP United States	147895 1/25/1988	4928257 5/22/1990	METHOD AND APPARATUS FOR MONITORING THE THICKNESS PROFILE OF A STRIP
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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
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Parent No./Date  
 750-510-023  
 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
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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
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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
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Parent No./Date  
 PC1/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
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Parent No./Date  
 PC1/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
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Parent No./Date  
 9.1101  
 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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700-511-003-HRL United States Parent No./Date	924105 8/3/1992 Tax Due: 3/27/2006 Expires: 8/3/2012	5351203 9/27/1994	ONLINE TOMOGRAPHIC GAUGING OF SHEET METAL
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Patent No. 5351203 owned jointly with Scientific Measurement System, Inc.

800-111-002-BTL Australia Parent No./Date PCT/US88/01879 6/9/1988	19929/88 6/9/1988 Tax Due: 6/9/2003 Expires: 6/9/2008	615458 4/29/1994	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
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800-111-002-BTL Austria Parent No./Date PCT/US88/01879 6/9/1988	88906314.5 6/9/1988 Tax Due: 6/30/2003 Expires: 6/9/2008	0363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
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800-111-002-BTL Belgium Parent No./Date PCT/US88/01879 6/9/1988	88906314.5 6/9/1988 Tax Due: 6/30/2003 Expires: 6/9/2008	0363429 2/24/1993	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
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800-111-002-BTL Canada Parent No./Date 349006 5/7/1989	2016152 5/7/1990 Tax Due: 5/7/2003 Expires: 5/7/2010	2016152 11/11/1995	PROCESS FOR CHEMICAL STABILIZATION OF HEAVY METAL BEARING DUSTS AND SLUDGES SUCH AS EAF DUST
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800-111-002-BTL Canada Parent No./Date 488950 3/26/1990	2038996 3/25/1991 Tax Due: 3/25/2003 Expires: 3/25/2011	2038996 8/27/1996	COMPOSITION AND PROCESS FOR FORMING LOW PERMEABILITY BARRIERS FOR WASTE DISPOSAL SITES
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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 063605 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 P01/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 P01/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 P01/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 P01/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 P01/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		

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880-111-002-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		
880-111-002-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		
880-111-002-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 PNT/US88/01879 6/9/1988	Tax Due: 6/30/2003 Expires: 6/9/2008		
880-111-002-BTL Taiwar	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		
880-111-002-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 PNT/US88/01879 6/9/1988	Tax Due: 6/9/2003 Expires: 6/9/2008		
880-111-002-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 083605 6/18/1987	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 083605 6/18/1987	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 083605 6/18/1987	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 PC2/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 PC2/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 PC2/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 PFI/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 PFI/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 PFI/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 PFI/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 1/3671 1/5/1994	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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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 PCT/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 PCT/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 PCT/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 PCT/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 PCT/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 PCT/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		

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Country			
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 EPT/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 EPT/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 EPT/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 EPT/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 EPT/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		

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800-111-004-BTL Mexico	948014 10/17/1994	191927 5/6/1999	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date 179022	Tax Due: 10/17/2004 Expires: 10/17/2014		
800-111-004-BTL Netherlands	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PCT/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-004-BTL Sweden	94930408.3 8/25/1994	0687349 2/11/1998	METHOD AND APPARATUS FOR COMBUSTION OF STEEL PLANT WASTES
Parent No./Date PCT/US94/09670 8/25/1994	Tax Due: 8/31/2003 Expires: 8/25/2014		
800-111-004-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		
800-111-006-ENV United States	08/841138 4/29/1997	5792364 8/11/1998	WASTEWATER TREATMENT PROCESS FOR VACUUM DEGASSER EFFLUENT
Parent No./Date SUBMISSION 10/25/1995	Tax Due: 2/11/2006 Expires: 4/29/2017		
800-111-007-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 10/28/1995	Tax Due: 6/28/2003 Expires: 8/21/2017		

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800-161-005-ENV United States	08/719747 9/25/1996	5766450 6/16/1998	APPARATUS FOR MAGNETIC FILTRATION OF WASTEWATERS CONTAINING OIL-COATED SCALE
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Parent No./Date  
SUBMISSION  
8/28/1995

Tax Due: 12/16/2005  
Expires: 9/25/2016

800-161-005-ENV United States	09/010435 1/21/1998	5989435 11/23/1999	METHOD FOR MAGNETIC FILTRATION OF WASTEWATERS CONTAINING OIL-COATED SCALE
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Parent No./Date  
SUBMISSION  
08/719747  
9/25/1996

Tax Due: 5/23/2003  
Expires: 9/25/2016

800-161-007-ENV United States	09/680095 10/5/2000	6387175 5/14/2002	ROADWAY BASE INTERMEDIATE, ROADWAY BASE, AND METHODS OF MANUFACTURE
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Parent No./Date  
SUBMISSION  
11/11/1999

Tax Due: 11/14/2005  
Expires: 10/5/2020

Patent No. 6387175 owned jointly with Environmental Recycling Technologies, Inc..

800-180-002-HRL United States	726931 7/8/1991	5192418 3/9/1993	METAL RECOVERY METHOD AND SYSTEM FOR ELECTROPLATING WASTES
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Parent No./Date  
SUBMISSION  
10/21/1989

Tax Due: 9/9/2004  
Expires: 7/8/2011

800-100-006-HRL United States	08/409219 3/23/1995	5552235 9/3/1996	EMBOSSSED COLD ROLLED STEEL SHEET WITH GOOD CORROSION AND PAINTABILITY PROPERTIES
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Parent No./Date  
SUBMISSION  
3/3/1995

Tax Due: 3/3/2004  
Expires: 3/23/2015

800-100-006-HRL United States	08/697562 8/28/1996	5780726 7/14/1998	METHOD OF DETERMINING SLOPE ANGLES OF IMPRESSION WALLS AND DEPTHS OF IMPRESSIONS ON AN EMBOSSSED SHEET SURFACE
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Parent No./Date  
SUBMISSION  
08/409219  
3/23/1995

Tax Due: 1/14/2006  
Expires: 3/23/2015

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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 8/3/1997	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 9/4/1991	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 PCT/US95/13740 10/23/1995	Tax Due: 10/23/2003 Expires: 10/23/2015		
850-124-007-BTL Austria	95 938879.4 10/23/1995	0806995 3/31/1999	METHOD FOR ROLLING FINISHED STRUCTURAL SHAPES FROM SLABS
Parent No./Date PCT/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 PCT/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 PCT/US95/13740 10/23/1995	Tax Due: 10/23/2003 Expires: 10/23/2015		

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Docket Number Country	Appln. No.	Patent No.	Title
850-124-007-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
850-124-007-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
850-124-007-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
850-124-007-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
850-124-007-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
850-124-007-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
850-124-007-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 P02/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 P02/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 085074 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 Austria Parent No./Date P02/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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Docket Number	Appln. No.	Patent No.	Title
850-124-008-BET Mexico Parent No./Date 086074	93/06940 11/5/1993 Tax Due: 11/5/2007 Expires: 11/5/2013	186916 11/7/1997	VARIABLE THICKNESS BEAM BLANKS
850-124-008-BET Patent Cooperation T Parent No./Date 086074 7/1/1993	PCT/US93/09485 10/5/1993 Tax Due: Expires:		VARIABLE FLANGE BEAM BLANK AND METHOD OF CONTINUOUS CASTING
850-124-008-BET South Africa Parent No./Date 086074 7/1/1993	93/7666 10/15/1993 Tax Due: 10/15/2003 Expires: 10/15/2013	93/7666 7/27/1994	VARIABLE THICKNESS BEAM BLANKS
850-420-002-STL United States Parent No./Date	602776 4/23/1984 Tax Due: Expires: 4/23/2004	4566630 1/28/1986	BOLTLESS FRICTION-FIT ADJUSTABLE RAIL BRACE
850-420-009-STL United States Parent No./Date SUBMISSION 3/10/1988	313271 2/21/1989 Tax Due: Expires: 6/4/2005	D317278 6/4/1991	ADJUSTABLE FROG CLAMP HAVING AN INCLINED SERRATED FRICTION ENGAGING SURFACE
850-420-010-STL United States Parent No./Date SUBMISSION 3/10/1988	313252 2/21/1989 Tax Due: Expires: 5/28/2005	D317141 5/28/1991	ADJUSTABLE FROG CLAMP HAVING A VERTICAL SERRATED FRICTION ENGAGING SURFACE
850-420-011-STL United States Parent No./Date SUBMISSION 10/19/1989	679881 4/3/1991 Tax Due: 9/10/2003 Expires: 4/3/2011	5094387 3/10/1992	ADJUSTABLE HOOK FLANGE GUARD RAIL

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850-420-012-STL United States Parent No./Date SUBMISSION 12/19/1989	583776 9/14/1990 Tax Due: 11/26/2003 Expires: 9/14/2010	5115970 5/26/1992	ADJUSTABLE SWITCH POINT GUARD RAIL
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850-420-012-STL United States Parent No./Date 583776 9/14/1990	866379 4/9/1992 Tax Due: 6/8/2004 Expires: 9/14/2010	5169064 12/8/1992	ADJUSTABLE SWITCH POINT GUARD RAIL
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850-421-002-SPP United States Parent No./Date SUBMISSION 5/10/1995	08/609043 2/29/1996 Tax Due: 7/6/2005 Expires: 2/29/2016	5705818 1/6/1998	METHOD AND APPARATUS FOR DETECTING RADIOACTIVE CONTAMINATION IN STEEL SCRAP
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~~850-702-004-MRK  
United States  
Parent No./Date  
5865008  
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.

~~850-702-004-MRK  
United States  
Parent No./Date  
SUBMISSION  
5865008  
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.

850-702-004-MRK United States Parent No./Date SUBMISSION 4/1/1998	09/256167 2/23/1999 Tax Due: 9/13/2004 Expires: 2/23/2019	6199341 3/13/2001	CONNECTION FOR A LIGHTWEIGHT STEEL FRAME SYSTEM
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~~850-702-004-MRK  
Brazil  
Parent No./Date  
PCF/US98/14907  
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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<del>850-702-004-MRK</del>	<del>2305170</del>		<del>STRUCTURAL SHAPE FOR USE IN</del>
<del>Canada</del>	<del>7/15/1998</del>		<del>FRAME CONSTRUCTION</del>

~~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.

<del>850-702-004-MRK</del>	<del>3374</del>		<del>STRUCTURAL SHAPE FOR USE IN</del>
<del>Mexico</del>	<del>7/15/1998</del>		<del>FRAME CONSTRUCTION</del>

~~Parent 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	

Parent No./Date Tax Due: 2/11/2006  
 SUBMISSION Expires: 6/12/2017  
 8/5/1996

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

DEEP-DRAWN ARTICLES

Parent 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

Parent 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

Parent 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.