

10-17-2003

Form PTO-1594  
(Rev. 03/01)  
OMB No. 0651-0027 (exp. 5/31/2002)



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

Tab settings

102576941

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

1. Name of conveying party(ies): 10-15-03  
 Amsted Industries Incorporated

Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State  
 Other \_\_\_\_\_

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

2. Name and Address of receiving party(ies)

Name: Citicorp USA, Inc.

Internal Address: \_\_\_\_\_

Street Address: 388 Greenwich Street

City: New York State: NY Zip: 10013

Individual(s) citizenship \_\_\_\_\_  
 Association \_\_\_\_\_  
 General Partnership \_\_\_\_\_  
 Limited Partnership \_\_\_\_\_  
 Corporation-State: Delaware  
 Other \_\_\_\_\_

If assignee is not domiciled in the United States, a domestic representative designation is attached:  Yes  No  
 (Designations must be a separate document from assignment)  
 Additional name(s) & address(es) attached:  Yes  No

3. Nature of conveyance:

Assignment                               Merger  
 Security Agreement                   Change of Name  
 Other \_\_\_\_\_

Execution Date: September 30, 2003

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

A. Trademark Application No.(s)  
See Attached

B. Trademark Registration No.(s)  
See Attached

Additional number(s) attached  Yes  No

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

Name: Intellectual Property Docketing

Internal Address: SHEARMAN & STERLING LLP

Street Address: 599 Lexington Avenue

City: New York State: NY Zip: 10022

6. Total number of applications and registrations involved: 120

7. Total fee (37 CFR 3.41)..... \$ 3,015.00

Enclosed  
 Authorized to be charged to deposit account

8. If check is missing or otherwise insufficient, charge deposit account number:  
50-0324

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Tamara L. Hrivnak                              [Signature]                              October 10, 2003  
 Name of Person Signing                              Signature                              Date

Total number of pages including cover sheet, attachments, and document: 74

10/16/2003 ECOOPER 00000165 76480261

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patent & Trademarks, Box Assignments  
 Washington, D.C. 20231

01 FC:0521 40.00 OP  
 02 FC:0522 2975.00 OP

# Continuation of Trademark Recordation Form Cover Sheet

## Continuation of Box 1:

2. Name of conveying party(ies):

Baltimore Aircoil Company, Inc.

- Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State

3. Name of conveying party(ies):

Varlen Corporation

- Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State

4. Name of conveying party(ies):

Consolidated Metco, Inc.

- Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State

5. Name of conveying party(ies):

Brenco, Incorporated

- Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State

6. Name of conveying party(ies):

Means Industries, Inc.

- Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State

7. Name of conveying party(ies):

Burgess-Norton Manufacturing Co.

- Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State

8. Name of conveying party(ies):

ASF-Keystone, Inc.

- Individual(s)                       Association  
 General Partnership               Limited Partnership  
 Corporation-State

9. Name of conveying party(ies):

Quality Bearing Service of Arkansas, Inc.

- Individual(s)
- Association
- General Partnership
- Limited Partnership
- Corporation-State

10. Name of conveying party(ies):

Quality Bearing Service of Virginia, Inc.

- Individual(s)
- Association
- General Partnership
- Limited Partnership
- Corporation-State

11. Name of conveying party(ies):

Quality Bearing Service of Nevada, Inc.

- Individual(s)
- Association
- General Partnership
- Limited Partnership
- Corporation-State

12. Name of conveying party(ies):

Track Acquisition Incorporated

- Individual(s)
- Association
- General Partnership
- Limited Partnership
- Corporation-State

13. Name of conveying party(ies):

Unit Rail Anchor Company, Inc.

- Individual(s)
- Association
- General Partnership
- Limited Partnership
- Corporation-State

**Continuation of Box 4:**

Application Numbers

76/480,261	76/538,297	76/539,170	76/453,920	76/509,719
76/396,037	76/504,941	76/504,800		

Registration Numbers

771,304	1,997,068	500,163	2,313,401	771,422
1,615,604	513,124	953,037	2,484,760	2,485,724
2,100,137	2,228,211	2,185,417	1,831,256	683,567

2,660,954	790,960	513,142	974,542	137,535
514,468	514,470	767,458	1,411,223	2,238,593
186,307	619,829	853,094	1,445,737	1,501,251
2,228,215	2,228,212	2,228,214	2,266,776	1,600,679
2,091,997	2,422,377	983,732	1,722,943	1,767,284
926,854	677,693	947,238	2,211,692	2,069,441
1,532,902	1,193,576	1,889,789	1,235,677	1,397,406
2,144,457	1,735,844	2,279,064	1,537,338	1,758,008
1,397,559	1,573,197	1,412,745	1,762,565	1,820,357
1,911,246	1,866,892	1,830,888	2,203,797	518,081
1,888,214	1,132,076	1,492,583	1,518,663	2,158,769
1,619,446	1,777,652	1,752,424	1,808,835	1,734,355
853,151	1,112,681	2,362,639	2,089,967	771,452
2,444,398	1,452,936	442,375	2,466,116	238,186
628,218	625,279	211,419	1,016,256	752,031
703,898	2,437,280	780,240	1,439,823	2,390,562
1,418,181	1,563,035	713,467	1,115,600	771,024
2,283,075	2,283,076	2,064,429	782,281	771,073
1,631,518	750,768	611,706	705,877	1,812,873
753,987	2,096,716			

**NO ADDITIONAL PAGES**

## INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT

This INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT (this "*IP Security Agreement Supplement*") dated September 30, 2003, is made by the Persons listed on the signature pages hereof (the "*Grantors*") in favor of Citicorp USA, Inc. ("*CUSA*"), as collateral agent (the "*Collateral Agent*") for the Secured Parties (as defined in the Credit Agreement referred to below).

WHEREAS, Amsted Industries Incorporated, a Delaware corporation, has entered into a Credit Agreement dated as of August 13, 1999 (as amended by Amendment No. 1 thereto dated as of August 25, 2000, Amendment No. 2 thereto dated as of November 30, 2001 and Amendment No. 3 thereto dated as of December 6, 2002, as amended and restated by the Amended and Restated Credit Agreement dated as of August 19, 2003, and as further amended, amended and restated, supplemented or otherwise modified from time to time, the "*Credit Agreement*"), with Citicorp North America, Inc., as Agent, and the Lender Parties party thereto. Terms defined in the Credit Agreement and not otherwise defined herein are used herein as defined in the Credit Agreement.

WHEREAS, pursuant to the Credit Agreement, the Grantors and certain other Persons have executed and delivered that certain Security Agreement dated as of September 29, 2000 made by the Grantors and such other Persons to the Collateral Agent (as amended, amended and restated, supplemented or otherwise modified from time to time, the "*Security Agreement*"). To create a short form version of the Security Agreement covering certain intellectual property of the Grantors and such other Persons for recording with the U.S. Patent and Trademark Office, the United States Copyright Office and other governmental authorities, the Grantors and such other Persons have executed and delivered that certain Intellectual Property Security Agreement made by the Grantors and such other Persons to the Collateral Agent dated as of September 29, 2000 (as amended, amended and restated, supplemented or otherwise modified from time to time, the "*IP Security Agreement*").

WHEREAS, under the terms of the Security Agreement and the IP Security Agreement, the Grantors have granted a security interest in the Additional Collateral (as defined in Section 1 below) of the Grantors to the Collateral Agent for the ratable benefit of the Secured Parties and have agreed as a condition thereof to execute this IP Security Agreement Supplement for recording with the U.S. Patent and Trademark Office, the United States Copyright Office and other governmental authorities.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantors agree as follows:

SECTION 1. Confirmation of Grant of Security. The Grantors hereby acknowledge and confirm the grant of a security interest to the Collateral Agent for the ratable benefit of the Secured Parties under the Security Agreement and the IP Security Agreement in and to all of the Grantors' right, title and interest in and to the following (the "*Additional Collateral*"):

- (i) The United States patents and patent applications set forth in Schedule A hereto, together with all reissues, divisions, continuations, continuations-in-part, extensions and reexaminations thereof, and all rights therein provided by international treaties or conventions (the "*Patents*");

(ii) The United States trademark and service mark registrations and applications therefor set forth in Schedule A hereto (the "*Trademarks*");

(iii) The United States copyright registrations and applications set forth in Schedule A hereto (the "*Copyrights*");

(iv) any and all claims for damages for past, present and future infringement, misappropriation or breach with respect to the Patents, Trademarks and Copyrights, with the right, but not the obligation, to sue for and collect, or otherwise recover, such damages; and

(v) any and all proceeds of the foregoing.

**SECTION 2. Supplement to Security Agreement and IP Security Agreement.**

Schedule V to the Security Agreement and Schedules A, B and C to the IP Security Agreement are each, effective as of the date hereof, hereby supplemented to add to such Schedules the Additional Collateral.

**SECTION 3. Recordation.** The Grantors authorize and request that the Register of Copyrights, the Director of Patents and Trademarks and any other applicable government officer to record this IP Security Agreement Supplement.

**SECTION 4. Governing Law.** This IP Security Agreement Supplement shall be governed by, and construed in accordance with, the laws of the State of New York.

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**SCHEDULE A to the  
INTELLECTUAL PROPERTY SECURITY AGREEMENT SUPPLEMENT**

*Attach schedule of domestic IP*

Tuesday, September 23, 2003

Pending Application List

Page: 1

From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
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006154DIV	US	09/748,584	22-Dec-2000	Pending	EJB	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. HANSON, EDWARD R. LANE, DONALD J. MOEHLING, CHARLES PARRISH, DELBERT E. TOUSSAINT, BRIAN A.
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Title: METHOD OF MAKING SIDEFAMES FOR RAILWAY CAR TRUCKS

006154DIV	US	10/386,793	12-Mar-2003	Pending	EJB	BAUER, ANTHONY J. CALLAHAN, THOMAS R. HANSON, EDWARD R. PARRISH, DELBERT E. EVERS, RONALD R. TOUSSAINT, BRIAN A. LANE, DONALD J. MOEHLING, CHARLES
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Title: METHOD OF MAKING BOLSTERS AND SIDEFAMES FOR RAILWAY CAR TRUCKS

Pending Application List

From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
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006217DIV	US	10/057,873	29-Jan-2002	Published	EJB	BARKER, RONALD E.
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Title: RAILCAR DRAFT GEAR ASSEMBLY AND SYSTEM  
 BURKHART, CHARLES E.

CLARK, MARLINE E.

DEPPEN, JOHN F.

HAWTHORNE, V. TERREY

KAUFHOLD, HORST T.

MONACO, JAY P.

PERSHWITZ, JULIUS I.

STEFFAN, JOHN J.

006237	US	10/405,664	02-Apr-2003	Pending	EJB	BERG, THOMAS R.
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Title: MANUFACTURE OF A RAILWAY TRUCK SIDEFRAAME  
 BAUER, ANTHONY J.

CALLAHAN, THOMAS R.

CHAIDEZ, HECTOR

SCHORR, RALPH H.

Tuesday, September 23, 2003

Pending Application List

Page: 3

From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
006237	PRO US	60/370,268	05-Apr-2002	Pending	EJB	BERG, THOMAS R. BAUER, ANTHONY J. CALLAHAN, THOMAS R. CHAIDEZ, HECTOR SCHORR, RALPH H.
006238	US	10/246,325	18-Sep-2002	Pending	EJB	SCHORR, RALPH H.

Title: CONSTANT CONTACT SIDE BEARING

Tuesday, September 23, 2003

Pending Application List

Page: 4

From To

Division: BAC BALTIMORE AIRCOIL COMPANY

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
BAC156	US	09/667,029	21-Sep-2000	Pending	FSG	CARTER, THOMAS P. GARRISH, BRYAN F.
Title: WATER DISTRIBUTION CONDUIT						
BAC161	US	60/454,661	17-Mar-2003	Pending	EJB	KENNON, DOUG
Title: HEAT EXCHANGER WITH INTERCHANGEABLE FAN ASSEMBLIES						
BAC162	US	60/454,695	17-Mar-2003	Pending	EJB	KENNON, DOUG
Title: HEAT EXCHANGER WITH HINGED FAN ASSEMBLIES						

Tuesday, September 23, 2003

**Pending Application List**

Page: 5

From To

Division: BN BURGESS-NORTON MFG. CO.

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
006236	US	10/072,187	05-Feb-2002	Pending	EJB	WIESE, RONALD J. ELLIOTT, CRAIG A.

Title: CONVEYOR BELT SYSTEM

**Pending Application List**

From To

Division: CNM CONSOLIDATED METCO

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
006223	US	09/839,921	23-Apr-2001	Published	EJB	BROTHERTON, JOSEPH A YOUNG, BRIAN T.

Title: NEW PRODUCT DESIGN FOR A LIGHTWEIGHT COMMERCIAL TRUCK  
BRAKE DRUM

Tuesday, September 23, 2003

Pending Application List

Page: 7

From To

Division: GWC GRIFFIN WHEEL COMPANY

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
006207	US	10/122,928	16-Apr-2002	Pending	EJB	SIERADZKI, CHRIS Z.
Title: BORING RISER HOLES IN A GRAPHITE MOLD						

006221	US	09/798,081	05-Mar-2001	Pending	FSG	PILON, RICHARD A. SHIRLEY, MARK S.
Title: RAILWAY WHEEL ALLOY						

006243	US	10/413,619	14-Apr-2003	Pending	EJB	SHIRLEY, MARK S. BLAND, MICHAEL A. CUSKE, JOSEPH A.
Title: IMPROVED RISER ARRANGEMENT						



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Pending Application List

Page: 8

From To

Division: MRD MERIDIAN RAIL INFORMATION SYS.

Case Number	Country	Application Number	Filing Date	Status	Attorney	Inventors
MRD008	US	10/080,048	21-Feb-2002	Pending	EJB	DUNCAN, SCOTT R. IRVING, ROBERT M. SKAWINSKI, VALERIAN
Title: FRICTION WEDGE FOR A RAILWAY CAR TRUCK HAVING A REPLACABLE WEAR MEMBER						
MRD009	US	10/100,576	18-Mar-2002	Pending	EJB	WEBER, HANS B. DUNCAN, SCOTT R.
Title: RAILWAY CAR TRUCK						
MRD010	US	10/156,876	28-May-2002	Pending	EJB	SMITH, DOUGLAS W. STAUNCH, ED G.
Title: RAILCAR SIDEFRAAME CASTING METHOD						
MRD011	US	10/219,854	15-Aug-2002	Pending	EJB	SMITH, DOUGLAS W.
Title: CONTOUR MOLD CASTING METHOD						
MRD012	US	10/222,549	16-Aug-2002	Pending	EJB	SMITH, DOUGLAS W.
Title: RAILCAR BOLSTER CASTING METHOD						

Tuesday, September 23, 2003

Granted Patent List

Page: 1

Granted From To

Division: AMD AMSTED INDUSTRIES INCORPORATED

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006180	US	6,210,073	03-Apr-2001	30-Nov-1998	Granted	SJM	BUEHLMAN, MARK D. PAYNE, FREDERICK C. ROGERS, DANIEL T.

Title: MULTI-LEVEL FLUID TRANSFER APPARATUS, SYSTEM AND PROCESS

Tuesday, September 23, 2003

**Granted Patent List**

Page: 2

Granted From To

Division: ARL AMSTED RESEARCH LABORATORY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
005534	US	4,504,441	12-Mar-1985	01-Aug-1983	Granted	001	KUYPER, GEOFFREY S.

Title: METHOD OF PREVENTING SEGREGATION OF METAL POWDERS

Tuesday, September 23, 2003

Granted Patent List

Page: 3

Granted From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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005849	US	4,422,557	27-Dec-1983	13-Sep-1982	Granted	001	ALTHERR, RUSSELL G.
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Title: ALIGNING DRAWBAR

005863	US	4,605,133	12-Aug-1986	22-Sep-1983	Granted	001	ALTHERR, RUSSELL G.
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Title: COUPLER KNUCKLE

005866	US	4,593,829	10-Jun-1986	15-Dec-1983	Granted	001	ALTHERR, RUSSELL G.
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Title: RAILWAY CAR CONNECTION

005880	US	4,700,853	20-Oct-1987	14-Jan-1985	Granted	001	ALTHERR, RUSSELL G.
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Title: SLACKLESS RAILWAY COUPLER CONNECTION  
KAIM, JOHN W.

005884	US	4,593,827	10-Jun-1986	15-Dec-1983	Granted	001	ALTHERR, RUSSELL G.
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Title: RAILWAY CAR DRAWBAR CONNECTION WITH GUIDED SLACK  
ADJUSTING WEDGES

005886	US	4,674,639	23-Jun-1987	09-Oct-1984	Granted	001	KAIM, JOHN W.
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Title: RAILWAY COUPLER

005895	US	4,637,319	20-Jan-1987	03-Dec-1984	Granted	001	HENKEL, JAMES A.
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Title: FRICTION SHOE POCKET  
MOEHLING, CHARLES

Tuesday, September 23, 2003

Granted Patent List

Page: 4

Granted From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
005921	US	4,674,412	23-Jun-1987	19-Dec-1985	Granted	001	KARBOWNICZEK, STAN MULCAHY, HARRY W.
Title: SUSPENSION FOR R.R. TRUCK							
005940	US	5,086,707	11-Feb-1992	15-Apr-1991	Granted	EJB	PITCHFORD, TERRY L. SPENCER, CHARLES P.
Title: SELF-ADJUSTING CONSTANT CONTACT SIDE BEARING FOR RAILCARS							
005946	US	4,870,914	03-Oct-1989	22-Jan-1988	Granted	001	RADWILL, ROBERT P.
Title: DIAGONALLY BRACED RAILWAY TRUCK							
005967	US	4,926,757	22-May-1990	30-Jan-1989	Granted	001	SPENCER, CHARLES P.
Title: ELECTRICALLY GROUNDED RAILWAY TRUCK							
005979	US	5,095,823	17-Mar-1992	17-Dec-1990	Granted	001	MCKEOWN, FRANKLIN S.
Title: FRICTION SHOE FOR RAILCAR TRUCK							
005987	US	4,838,174	13-Jun-1989	31-May-1988	Granted	001	MOEHLING, CHARLES
Title: RAILWAY TRUCK BOLSTER WITH IMPROVED BRAKE ATTACHMENT							
005994	US	4,953,471	04-Sep-1990	04-Aug-1989	Granted	001	MOEHLING, CHARLES WRONKIEWICZ, ROBERT D
Title: FRICTION SHOE ASSEMBLY FOR REPAIR OF WORN RAILWAY TRUCK							

Tuesday, September 23, 2003

Granted Patent List

Page: 5

Granted From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
005996	US	4,776,474	11-Oct-1988	08-Feb-1985	Granted	001	ALTHERR, RUSSELL G. SELBERG, RONALD P. TERLECKY, BORIS S.
Title: RAILROAD CAR COUPLER ARRANGEMENT LIMITING EXCESS LATERAL MOVEMENT OF THE COUPLER SHANK							
006002	US	4,946,052	07-Aug-1990	12-May-1989	Granted	001	KAIM, JOHN W. KAUFHOLD, HORST T.
Title: GRAVITY WEDGE FOR SLACKLESS RAILCAR CONNECTIONS							
006005	US	5,035,338	30-Jul-1991	23-Feb-1990	Granted	001	ALTHERR, RUSSELL G. KAUFHOLD, HORST T.
Title: SLACKLESS RAILCAR CONNECTIONS WITH EXTRACTABLE WEDGE							
006006	US	5,014,626	14-May-1991	23-Oct-1989	Granted		SCHULTZ, THOMAS R.
Title: FEMALE CONNECTING MEMBER WITH DISSASSEMBLY FEATURE FOR ARTICULATED CONNECTION							
006026	US	5,097,973	24-Mar-1992	22-Mar-1991	Granted		SPENCER, CHARLES P.
Title: RAILCAR ARTICULATED CONNECTOR AND WEDGE SHIM THEREFORE							
006028	US	5,133,467	28-Jul-1992	29-Apr-1991	Granted	001	HAWTHORNE, V. TERREY KAUFHOLD, HORST T. OESCH JF
Title: WEDGE SHIM AND FOLLOWER BLOCK FOR A RAILCAR ARTICULATED CONNECTOR							

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Granted Patent List

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Granted From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006033	US	4,984,696	15-Jan-1991	11-Dec-1989	Granted	001	ALTHERR, RUSSELL G.
Title: RAILWAY COUPLER HEAD STRENGTHENED AT HORN LINE							
006035	US	5,138,954	18-Aug-1992	10-Feb-1992	Granted	001	MULCAHY, HARRY W.
Title: FREIGHT RAILCAR TRUCK AND BOLSTER FOR OUTBOARD SUPPORT OF CAR BODY WITH SIDE BEARINGS LOCATED ENTIRELY OUTSIDE OF...							
006038	US	4,976,362	11-Dec-1990	04-Aug-1989	Granted	001	KAUFHOLD, HORST T.
Title: PULLING LUG FOR RAILWAY VEHICLE COUPLER							
006039	US	5,080,242	14-Jan-1992	28-Dec-1989	Granted	002	ALTHERR, RUSSELL G. STEFFEN, JOHN J. INDICATOR
Title: SLACKLESS RAILCAR CONNECTIONS WITH UPWARD WEAR INDICATOR							
006044	US	5,054,630	08-Oct-1991	04-May-1990	Granted	001	ALTHERR, RUSSELL G.
Title: SLACKLESS COUPLER CONNECTION FOR A RAILWAY VEHICLE							
006048	US	4,848,611	18-Jul-1989	24-Mar-1988	Granted		SELBERG, RONALD P. TERLECKY, BORIS S.
Title: RAILROAD CAR COUPLER ARRANGEMENT LIMITING EXCESS LATERAL MOVEMENT OF THE COUPLER SHANK							

Tuesday, September 23, 2003

Granted Patent List

Page: 7

Granted From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006059	US	5,111,753	12-May-1992	21-Dec-1990	Granted	001	MCKEOWN, FRANKLIN S. WACHTER, WILLIAM A. WRONKIEWICZ, ROBERT D ZIGLER, HERBERT L.
<b>Title:</b> LIGHT WEIGHT FATIGUE RESISTANT RAILCAR TRUCK BOLSTER							
006061	US	5,572,931	12-Nov-1996	08-Dec-1994	Granted	FSG	BERG, NORMAN A. HAWTHORNE, V. TERREY LAZAR, GLEN F.
<b>Title:</b> RAILCAR TRUCK BEARING ADAPTER CONSTRUCTION							
006061CIP	US	5,746,137	05-May-1998	20-Aug-1996	Granted	FSG	HAWTHORNE, V. TERREY PITCHFORD, TERRY L. SPENCER, CHARLES P.
<b>Title:</b> RAILCAR TRUCK BEARING ADAPTER CONSTRUCTION							
006062	US	5,331,902	26-Jul-1994	06-Jul-1993	Granted	SJM	HAWTHORNE, V. TERREY HIATT, ANTHONY R. MCKEOWN, FRANKLIN S.
<b>Title:</b> TRUCK BOLSTER WITH LATERALLY WIDER FRICTION SHOE POCKET AND MEANS FOR LATERAL TRAVEL OF THE FRICTION SHOE							
006064	US	5,509,358	23-Apr-1996	08-Dec-1994	Granted	FSG	BERG, NORMAN A. HAWTHORNE, V. TERREY LAZAR, GLEN F.
<b>Title:</b> RAILCAR TRUCK BEARING ADAPTER CONSTRUCTION							



Tuesday, September 23, 2003

Granted Patent List

Page: 8

Granted From To

Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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006072	US	5,224,428	06-Jul-1993	31-Oct-1991	Granted	002	WRONKIEWICZ, ROBERT D
Title: STEERING ARM ELLIPTICAL RADIUS							

006076	US	5,193,699	16-Mar-1993	16-Dec-1991	Granted	EJB	KAUFHOLD, HORST T. STEFFEN, JOHN J.
Title: CENTER SILL WITH SHORT YOKE MEMBER							

006078	US	5,232,106	03-Aug-1993	06-Jul-1992	Granted	003	HAWTHORNE, V. TERREY KAUFHOLD, HORST T.
Title: RAILWAY DRAWBAR WITH FABRICATED SECTION							

006083	US	5,312,007	17-May-1994	04-Dec-1992	Granted	FSG	ANDERSON, DAVID G. BUTLER, JR, RONALD G JARVIS, DAVID J. KAUFHOLD, HORST T. STEFFEN, JOHN J.
Title: SLACKLESS COUPLER CONNECTION FOR CONTROLLED BUFF/DRAFT							

006087	US	5,482,675	09-Jan-1996	18-Aug-1994	Granted	FSG	LIU, SUNG C. SHOTWELL, HUGH V. WEBER, EARL K.
Title: A CAST STEEL COMPOSITION FOR RAILWAY COMPONENTS							

006088	US	5,305,899	26-Apr-1994	25-Jun-1993	Granted	003	KAUFHOLD, HORST T.
Title: COUPLER FOLLOWER WITH ELASTOMERIC WEAR PAD							

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Division: ASF ASF-KEYSTONE, INC.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006091	US	5,305,694	26-Apr-1994	17-Jun-1993	Granted	003	MCKEOWN, FRANKLIN S. WRONKIEWICZ, ROBERT D
<b>Title:</b> SIDEFRAME WITH INCREASED FATIGUE LIFE							
006096	US	5,461,987	31-Oct-1995	18-Jul-1994	Granted	003	NASSAR, RAMI V.
<b>Title:</b> SIDE ARM STRUCTURE OF A STEERING ARM ASSEMBLY HAVING AN UNDERCUT RADIUS							
006097	US	6,360,906	26-Mar-2002	21-Jul-2000	Granted	FSG	KAUFHOLD, HORST T. STEFFEN, JOHN J.
<b>Title:</b> SLACKLESS RAILWAY COUPLER WITH BUFF/DRAFT GEAR							
006101	US	6,233,806	22-May-2001	22-Jan-1999	Granted	SJM	ANDERSON, NORMAN G. HIATT, ANTHONY R. NASSAR, RAMI V. BRAKE SHOES
<b>Title:</b> STEERING ARMS AND RAILWAY CAR TRUCKS WITH IMPROVED ACCESS TO BRAKE SHOE KEYS AND METHOD OF CHANGING BRAKE SHOES							
006103	US	5,452,665	26-Sep-1995	06-Apr-1994	Granted	003	SCHULTZ, THOMAS R. WRONKIEWICZ, ROBERT D
<b>Title:</b> BOLSTER FRICTION SHOE POCKET WITH RELIEVED OUTER WALL							
006104	US	5,524,551	11-Jun-1996	23-Aug-1994	Granted	FSG	GODING, DAVID J. HAWTHORNE, V. TERREY ASSEMBLY
<b>Title:</b> SPRING-PACK ASSEMBLY FOR A RAILWAY TRUCK BOLSTER ASSEMBLY							

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006105	US	5,481,986	09-Jan-1996	09-Nov-1994	Granted	003	LANE, DONALD J. MCKEOWN, FRANKLIN S. SPENCER, CHARLES P.
<b>Title:</b> LIGHTWEIGHT TRUCK SIDEFRAME							
006108	US	5,454,475	03-Oct-1995	22-Mar-1994	Granted	003	KAUFHOLD, HORST T.
<b>Title:</b> LUBRICATION MEANS FOR SLACK-FREE RAILCAR CONNECTIONS							
006120	US	5,794,538	18-Aug-1998	01-Apr-1997	Granted	FSG	PITCHFORD, TERRY L.
<b>Title:</b> RAILCAR TRUCK BEARING ADAPTER CONSTRUCTION							
006121	US	5,546,869	20-Aug-1996	13-Jul-1995	Granted	003	NASSAR, RAMI V.
<b>Title:</b> IMPROVED LIGHTWEIGHT FATIGUE RESISTANT RAILCAR TRUCK SIDEFRAME WITH INCREASED RESISTANCE TO TWISTING							
006122	US	5,582,307	10-Dec-1996	08-May-1995	Granted	001	HAWTHORNE, V. TERREY KAUFHOLD, HORST T. SCHWINN, GEORGE G.
<b>Title:</b> RAILWAY CAR COUPLER KNUCKLE							
006123	US	5,806,435	15-Sep-1998	06-Sep-1996	Granted	SJM	PITCHFORD, TERRY L.
<b>Title:</b> SIDE BEARINGS FOR TRUCK BOLSTERS							

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Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006129	US	5,722,327	03-Mar-1998	20-Nov-1995	Granted	001	HAWTHORNE, V. TERREY PITCHFORD, TERRY L. SPENCER, CHARLES P. VAN AUKEN
<b>Title:</b> DEVICE FOR IMPROVING WARP STIFFNESS OF A RAILCAR TRUCK							
006130	US	5,746,136	05-May-1998	13-Sep-1996	Granted	FSG	HAWTHORNE, V. TERREY PITCHFORD, TERRY L. SPENCER, CHARLES P.
<b>Title:</b> DYNAMICALLY STABLE, LIGHTWEIGHT RAILCAR SUPPORT SYSTEM							
006136	US	5,833,086	10-Nov-1998	12-Nov-1997	Granted	FSG	KAUFHOLD, HORST T.
<b>Title:</b> ALLIANCE COUPLER LOCK LIFTER SECURING ARM							
006138	US	5,749,301	12-May-1998	13-Sep-1996	Granted	FSG	PITCHFORD, TERRY L. SCHULLER, DANIEL J. VANDERVENNEN, E. WRONKIEWICZ, R.D.
<b>Title:</b> MULTI-RATE VERTICAL LOAD SUPPORT FOR AN OUTBOARD BEARING RAILWAY TRUCK							
006143	US	6,167,813	02-Jan-2001	14-Sep-1998	Granted	SJM	KAUFHOLD, HORST T. STEFFEN, JOHN J.
<b>Title:</b> TAPERED WEAR LINER AND ARTICULATED CONNECTOR WITH TAPERED WEAR LINER							

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006144	US	5,809,899	22-Sep-1998	28-Jun-1996	Granted	SJM	KAUFHOLD, HORST T. MCKEOWN, FRANKLIN S. STEFFEN, JOHN J.
<b>Title:</b> DRAFT SILL AND WHEEL TRUCK CONNECTION							
006145	US	5,718,177	17-Feb-1998	14-Jan-1997	Granted	EJB	TOUSSAINT, BRIAN A. WRONKIEWICZ, R.D. MEMBER
<b>Title:</b> RAILWAY TRUCK SIDEFRAAME WITH INTERNAL RIBS IN BOTTOM MEMBER							
006151	US	5,809,898	22-Sep-1998	30-Jan-1997	Granted	FSG	KAUFHOLD, HORST T. STEFFEN, JOHN J. CONNECTOR
<b>Title:</b> RING SEAT REMOVAL SYSTEM FOR A RAILCAR ARTICULATED CONNECTOR							
006151DIV	US	5,850,929	22-Dec-1998	16-Apr-1998	Granted	FSG	KAUFHOLD, HORST T. STEFFEN, JOHN J. CONNECTOR
<b>Title:</b> RING SEAT REMOVAL SYSTEM FOR A RAILCAR ARTICULATED CONNECTOR							

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006154	US	5,752,564	19-May-1998	08-Jan-1997	Granted	SJM	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. HANSON, EDWARD R. LANE, DONALD J. MOEHLING, CHARLES PARRISH, DELBERT E. TOUSSAINT, BRIAN A.
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006154DIV	US	6,330,862	18-Dec-2001	13-Mar-2000	Granted	SJM	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. MOEHLING, CHARLES TOUSSAINT, BRIAN A.
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006154DIV	US	5,967,053	19-Oct-1999	10-Apr-1998	Granted	SJM	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. HANSON, EDWARD R. MOEHLING, CHARLES TOUSSAINT, BRIAN A.
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006154DIV	US	5,967,053	19-Oct-1999	10-Apr-1998	Granted	SJM	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. HANSON, EDWARD R. MOEHLING, CHARLES TOUSSAINT, BRIAN A.
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006154DIV	US	5,967,053	19-Oct-1999	10-Apr-1998	Granted	SJM	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. HANSON, EDWARD R. MOEHLING, CHARLES TOUSSAINT, BRIAN A.
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006154DIV	US	5,954,114	21-Sep-1999	10-Apr-1998	Granted	SJM	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. HANSON, EDWARD R. LANE, DONALD J. MOEHLING, CHARLES PARRISH, DELBERT E.
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Title: METHOD OF MAKING RAILWAY TRUCK BOLSTERS

006154DIV	US	6,089,166	18-Jul-2000	19-Jul-1999	Granted	SJM	BAUER, ANTHONY J. CALLAHAN, THOMAS R. EVERS, RONALD R. HANSON, EDWARD R. MOEHLING, CHARLES
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Title: BOLSTERS FOR RAILWAY TRUCKS

006158	US	5,791,258	11-Aug-1998	11-Apr-1997	Granted	001	HAWTHORNE, V. TERREY WRONKIEWICZ, ROBERT D
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Title: RAILWAY TRUCK WITH ELASTOMERIC SUSPENSION

006166	US	6,186,075	13-Feb-2001	20-Aug-1998	Granted	SJM	SPENCER, CHARLES P.
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Title: SIDE FRAME-BOLSTER INTERFACE FOR RAILCAR TRUCK ASSEMBLY

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006168	US	5,931,101	03-Aug-1999	30-Jun-1997	Granted	SJM	BUTLER, JR, RONALD G COMPTON, DOUGLAS L.
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Title: LIGHT WEIGHT DRAFT SILL  
KAUFHOLD, HORST T.  
TOUSSAINT, BRIAN A.

006168CIP	US	6,305,298	23-Oct-2001	31-Mar-1999	Granted	SJM	BUTLER, RONALD G. COMPTON, DOUGLAS L.
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Title: LIGHT WEIGHT DRAFT SILL  
KAUFHOLD, HORST T.  
LADENDORF, JEFFERY R  
TOUSSAINT, BRIAN A.

006178	US	6,173,655	16-Jan-2001	20-Aug-1998	Granted	SJM	HAWTHORNE, V. TERREY
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Title: SIDE FRAME-BOLSTER INTERFACE FOR RAILCAR TRUCK ASSEMBLY

006181	US	6,125,767	03-Oct-2000	26-Jun-1998	Granted	EJB	GOLEMBIEWSKI, RONALD HAWTHORNE, V. TERREY
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Title: RAILWAY TRUCK SIDEFRAAME WITH REINFORCED COLUMNS  
MOEHLING, CHARLES  
TOUSSAINT, BRIAN A.

006182	US	6,276,283	21-Aug-2001	07-Apr-1999	Granted	FSG	WEBER, EARL K.
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Title: RAILWAY TRUCK WEARPLATE



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006192	US	6,272,759	14-Aug-2001	12-Apr-1999	Granted	EJB	REICHENBACH, TERRY THOMASON, LEONARD TILLEY, TERRY UNGER, LES
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006199	US	6,324,995	04-Dec-2001	04-Jun-1999	Granted	SJM	COMPTON, DOUGLAS L. KAUFHOLD, HORST T. LADENDORF, JEFFREY R THOMASON, LEONARD D. TOUSSAINT, BRIAN A.
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006208	US	6,305,561	23-Oct-2001	14-Jan-2000	Granted	SJM	KAUFHOLD, HORST T. LADENDORF, JEFFREY R OESCH, JOHN F.
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006210	US	6,425,334	30-Jul-2002	20-Dec-2000	Granted	EJB	PIERSON, SCOTT WRONKIEWICZ, R.D.
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006214	US	6,398,047	04-Jun-2002	11-Sep-2000	Granted	FSG	LADENDORF, JEFFERY R OESCH, JOHN F.
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006217	US	6,446,820	10-Sep-2002	07-Sep-2000	Granted	SJM	BARKER, RONALD E. BURKHART, CHARLES E. CLARK, MARLINE E. DEPPEN, JOHN F. HAWTHORNE, V. TERREY KAUFHOLD, HORST T. MONACO, JAY P. PERSHWITZ, JULIUS I. STEFFAN, JOHN J.
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Title: RAILCAR DRAFT GEAR ASSEMBLY AND SYSTEM

006239	US	6,371,033	16-Apr-2002	05-Oct-1999	Granted	EJB	SMITH, STEPHEN W. COULBORN, JOHN W. HAWTHORNE, V. TERREY WILLIAMS, SAMUEL R. CHRISTIE, C. DALE OLIVER, JOHN D. LAZAR, GLEN F.
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Title: HIGH CAPACITY INTEGRATED RAILWAY CAR TRUCK

6119CON	US	5,573,126	12-Nov-1996	10-Apr-1996	Granted	SJM	Beauclerc, Richard G MCKEOWN, FRANKLIN JR SPENCER, CHARLES P.
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Title: GRAVITY WEDGE FOR A SLACKLESS RAILCAR CONNECTOR ASSEMBLY

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BAC062	US	4699211	13-Oct-1987	27-Jun-1986	Granted		FLAMM, KATHERINE K. GEARY, DAVID F. MORRISON, FRANK T.
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BAC063	US	4518544	21-May-1985	20-Jan-1983	Granted		CARTER, THOMAS P. CATES, ROBERT E. HARRISON, RICHARD H. SCHINNER, EDWARD N.
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BAC067	US	4601684	22-Jul-1986	07-Mar-1984	Granted		GEARY, DAVID F. SCHINNER, EDWARD N. SHRIVER, G.R.
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BAC068CO	US	4691769	08-Sep-1987	14-Jul-1986	Granted		FLAMM, KATHERINE K. GEARY, DAVID F. GILLEY, J.K. SCHINNER, EDWARD N.
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BAC070	US	4,683,101	28-Jul-1987	26-Dec-1985	Granted		CATES, ROBERT E.
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Division: BAC BALTIMORE AIRCOIL COMPANY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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BAC074	US	4737321	12-Apr-1988	12-Jan-1987	Granted		HUFFAKER, JOHN R. MCCLOSKEY, WILLIAM D SMITH, NELSON T.
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BAC075	US	4749307	07-Jun-1988	14-Jan-1987	Granted		HUFFAKER, JOHN R. ROBB, DENNIS G. VASSEUR, BRETT E.
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BAC083	US	4,831,831	23-May-1989	16-Feb-1988	Granted		CARTER, THOMAS P. HAMAN LL MILLER, ROBERT P. SCHINNER, EDWARD N.
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BAC085	US	4,891,169	02-Jan-1990	16-Nov-1988	Granted		KAPLAN, VLADIMIR
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BAC086/DI	US	D 4,957,276	18-Sep-1990	24-Aug-1989	Granted		GARRISH, BRYAN F.
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BAC089	US	5,150,581	29-Sep-1992	24-Jun-1991	Granted		SMITH, GLENN W.
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Title: THERMAL STORAGE UNIT WITH COIL EXTENSION DURING MELT

Title: SEAL STRUCTURE FOR JOINING BETWEEN TWO STRUCTURAL SECTIONS

Title: AIR DISTRIBUTION SYSTEM FOR LARGE COOLING TOWERS

Title: HEAD PRESSURE CONTROLLER FOR AIR CONDITIONING AND REFRIGERATION SYSTEMS

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Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
BAC092	US	5193352	16-Mar-1993	03-May-1991	Granted	001	CATES, ROBERT E. MCCLOSKEY, WILLIAM D SMITH, GLENN W.
Title: AIR PRE-COOLER METHOD AND APPARATUS							
BAC096	US	5170633	15-Dec-1992	24-Jun-1991	Granted	001	KAPLAN, VLADIMIR
Title: DESICCANT BASED AIR CONDITIONING SYSTEM							
BAC099	US	5,405,541	11-Apr-1995	17-Jun-1992	Granted	001	HONCHAR, DENNIS R. MEDAIRY, WILBUR L. POPE, DANIEL H.
Title: Improved Water Treatment System							
BAC099DI	US	5,480,564	02-Jan-1996	19-Apr-1994	Granted	001	HONCHAR, DENNIS R. MEDAIRY, WILBUR L. POPE, DANIEL H.
Title: WATER TREATMENT SYSTEM							
BAC107	US	5,180,103	19-Jan-1993	31-Jul-1991	Granted	001	GARRISH, BRYAN F. HARRISON, RICHARD H.
Title: SPRAY NOZZLE FLUID DISTRIBUTION SYSTEM							
BAC112	US	5,435,382	25-Jul-1995	16-Jun-1993	Granted	SJM	CARTER, THOMAS P.
Title: COMBINATION DIRECT AND INDIRECT CLOSED CIRCUIT EVAPORATIVE HEAT EXCHANGER							

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Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
BAC112DI	US	5,816,318	06-Oct-1998	15-Feb-1995	Granted	SJM	CARTER, THOMAS P.
<b>Title:</b> COMBINATION DIRECT AND INDIRECT CLOSED CIRCUIT EVAPORATIVE HEAT EXCHANGER							
BAC116	US	5,234,161	10-Aug-1993	08-May-1992	Granted	001	GARRISH, BRYAN F. HARRISON, RICHARD H.
<b>Title:</b> IMPROVED COUNTERFLOW SPRAY NOZZLE							
BAC127	US	5,273,687	28-Dec-1993	09-Dec-1992	Granted	FSG	OSBORNE, WILLIAM T.
<b>Title:</b> MICROBIOLOGICAL CONTROL OF RECIRCULATING WATER IN EVAPORATIVE COOLING SYSTEMS AT IDLE CONDITIONS							
BAC129	US	5,724,828	10-Mar-1998	21-Apr-1995	Granted	FSG	KORENIC, BRANISLAV
<b>Title:</b> COMBINATION DIRECT AND INDIRECT CLOSED CIRCUIT EVAPORATIVE HEAT EXCHANGER WITH BLOW-THROUGH FAN							
BAC131	US	5,431,858	11-Jul-1995	14-Apr-1994	Granted	003	HARRISON, RICHARD H.
<b>Title:</b> ENERGY CONSERVING FLUID FLOW DISTRIBUTION SYSTEM WITH INTERNAL STRAINER							
BAC132	US	5,596,877	28-Jan-1997	16-Aug-1995	Granted	001	MORRISON, FRANK T.
<b>Title:</b> IMPROVED HEADER AND COIL ARRANGEMENT FOR COOLING APPARATUS							

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BAC133	US	6,247,522	19-Jul-2001	04-Nov-1998	Granted	SJM	KAPLAN, VLADIMIR
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Title: HEAT EXCHANGE MEMBERS FOR THERMAL STORAGE APPARATUS  
MILLER, ROBERT P.

BAC134	US	5,663,536	02-Sep-1997	10-Oct-1995	Granted	FSG	KAPLAN, VLADIMIR
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Title: SOUND ATTENUATION ASSEMBLY FOR AIR-COOLING APPARATUS

BAC136	US	6,138,746	31-Oct-2000	24-Feb-1999	Granted	FSG	LIVOLSI, PETER P.
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Title: COOLING COIL FOR A THERMAL STORAGE TOWER  
MCCULLOUGH, JOHN M.

SMITH, GLENN W.

BAC140	US	5,904,864	18-May-1999	26-Nov-1997	Granted	SJM	NESTER, PAUL D.
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Title: ROBOTIC WELDING  
REYNOLDS, JEFFREY G.

BAC141	US	6,142,219	07-Nov-2000	08-Mar-1999	Granted	SJM	CARTER, THOMAS
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Title: CLOSED CIRCUIT HEAT EXCHANGE SYSTEM AND METHOD WITH  
REDUCED WATER CONSUMPTION  
KORENIC, BRANISLAV

BAC142	US	6,206,350	27-Mar-2001	25-Nov-1998	Granted	FSG	CARTER, THOMAS P.
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Title: FILM FILL-PACK FOR INDUCEMENT OF SPIRALING GAS FLOW IN  
HEAT AND MASS TRANSFER CONTACT APPARATUS WITH SELF-  
SPACING FILL SHEETS  
FERRARI, SARAH L.  
GARRISH, BRYAN F.  
HARRISON, RICHARD H.

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BAC142CIP	US	6,260,830	17-Jul-2001	01-Sep-1999	Granted	FSG	CARTER, THOMAS P. FERRARI, SARAH L. GARRISH, BRYAN F. HARRISON, RICHARD H.
<b>Title:</b> FILM FILL-PACK FOR INDUCEMENT OF SPIRALING GAS FLOW IN HEAT AND MASS TRANSFER CONTACT APPARATUS WITH SELF-SPACING FILL-SHEETS							
BAC143	US	6,213,200	10-Apr-2001	08-Mar-1999	Granted	SJM	CARTER, THOMAS P. KORENIC, BRANISLAV
<b>Title:</b> LOW PROFILE HEAT EXCHANGE SYSTEM AND METHOD WITH REDUCED WATER CONSUMPTION							
BAC143DI	US	6,564,864	20-May-2003	12-Jan-2001	Granted	SJM	CARTER, THOMAS P. KORENIC, BRANISLAV
<b>Title:</b> LOW PROFILE HEAT EXCHANGE METHOD WITH REDUCED WATER CONSUMPTION							
BAC144	US	6,237,900	29-May-2001	08-Mar-1999	Granted	SJM	DREW, BRIAN S. RULE, JOHN E.
<b>Title:</b> RIGID EVAPORATIVE HEAT EXCHANGERS							
BAC145	US	6,216,486	17-Apr-2001	24-Sep-1999	Granted	FSG	AARON, DAVID ANDREW MORRISON, FRANK T.
<b>Title:</b> ICE STORAGE COIL ARRANGEMENT							
BAC148	US	6,298,676	09-Oct-2001	26-Jun-2000	Granted	FSG	OSBORNE, WILLIAM T. SMITH, GARY D.
<b>Title:</b> ICE THERMAL STORAGE CONTROL							



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Granted From To

Division: BAC BALTIMORE AIRCOIL COMPANY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
BAC148CIP	US	6,415,615	09-Jul-2002	06-Nov-2000	Granted	EJB	OSBORNE WILLIAM T. SMITH, GARY D.

Title: ICE THERMAL STORAGE CONTROL

BAC157	US	6,574,980	10-Jun-2003	22-Sep-2000	Granted	FSG	MORRISON, FRANK T.
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Title: CIRCUITING ARRANGEMENT FOR A CLOSED CIRCUIT COOLING TOWER

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Granted From To

Division: BN BURGESS-NORTON MFG. CO.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006137	US	5,858,415	12-Jan-1999	18-Dec-1996	Granted	SJM	BEQUETTE, TODD KELLY, JEFF KRAVE, THOMAS PORTER, ROBERT
<b>Title: RAW MATERIAL DELIVERY SYSTEM FOR COMPACTING PRESS</b>							
006137CIP	US	6,183,232	06-Feb-2001	11-Jan-1999	Granted	SJM	BEQUETTE, TODD A. DORBAND, MICHAEL J. GREEN, MARK W. KELLY, JEFFREY C. KRAVE, THOMAS J. PORTER, ROBERT S.
<b>Title: RAW MATERIAL DELIVERY SYSTEM FOR COMPACTING PRESS</b>							
006194	US	6,134,786	24-Oct-2000	29-Jan-1999	Granted	FSG	ENGQUIST, JOHN GRAUPNER, SCOTT D HAYE, JOHN T.
<b>Title: METHOD AND APPARATUS FOR IMPROVEMENT OF INVOLUTE AND LEAD ERROR IN POWDER METAL GEARS</b>							
006195	US	6,200,525	13-Mar-2001	03-Aug-1999	Granted	SJM	BEQUETTE, TODD A.
<b>Title: POWDER METAL FEED SHOE HOLD-DOWN SYSTEM</b>							
006196	US	6,267,574	31-Jul-2001	02-Aug-1999	Granted	SJM	BOWMAN, MATT KNOTT, DONALD J.
<b>Title: COMPACTING PRESS WITH PICKER SYSTEM</b>							

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Division: BN BURGESS-NORTON MFG. CO.

Granted From To

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006203	US	6,273,042	14-Aug-2001	14-Jun-1999	Granted	SJM	PEREZ, VINCENT M. REMPFER, DAVID E.

Title: ROCKER ASSEMBLIES FOR CONTROL OF ENGINE VALVES AND METHOD OF ASSEMBLING SUCH ROCKER ASSEMBLIES

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Division: BRN BRENCO INCORPORATED  
Granted From To

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
BRN001	US	5,161,292	10-Nov-1992	20-Jun-1991	Granted	SJM	CORMODE, RANDY D. KURTYAK, ANDREW G. SCHOENFELDER, RONALD
Title: RAIL ANCHOR WRENCH							
BRN002	US	5,975,533	02-Nov-1999	12-Sep-1997	Granted	SJM	FISHER, KURT W. HUBBARD, PAUL A. SKLUTE, ANDREW J.
Title: LABYRINTH-TYPE SEAL FOR RAILWAY CAR JOURNAL BEARING							
BRN003	US	6,126,321	03-Oct-2000	16-Jul-1999	Granted	SJM	FETTY, MARK W.K. HUBBARD, PAUL A.
Title: SHAFT JOURNAL BEARING AND SEAL WEAR RING ASSEMBLY							
BRN004	US	5,431,872	11-Jul-1995	27-Aug-1993	Granted	SJM	SINK, DANNY R.
Title: COMPRESSION MOLDING METHOD FOR SHAFT SEAL							
BRN005	US	5,511,886	30-Apr-1996	23-May-1994	Granted	SJM	SINK, DANNY R.
Title: BEARING SHAFT SEAL							
BRN007	US	5,380,102	10-Jan-1995	02-Nov-1993	Granted	SJM	SINK, DANNY R.
Title: SHAFT JOURNAL BEARING ASSEMBLY IMPROVED SEAL WEAR RING							
BRN008	US	5,549,395	27-Aug-1996	06-Jun-1995	Granted	SJM	SINK, DANNY R.
Title: SHAFT JOURNAL BEARING HAVING IMPROVED SEAL WEAR RING							

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Granted From To

Division: BRN BRENCO INCORPORATED

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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BRN009	US	5,588,752	31-Dec-1996	04-Mar-1996	Granted	SJM	FETTY, MARK, W.K.
Title: BEARING AND JOURNAL ASSEMBLY							

BRN010	US	5,186,548	16-Feb-1993	07-Feb-1992	Granted	SJM	SINK, DANNY R.
Title: BEARING SHAFT SEAL							

BRN012	US	5,964,331	12-Oct-1999	02-Dec-1996	Granted	SJM	HATCHER, WILLIAM J. KLECKER, BRIAN D. REED, MARTIN E. SINK, DANNY R.
Title: ONE-WAY OVERRUNNING CLUTCH							

BRN012CO	US	6,129,190	10-Oct-2000	08-Oct-1999	Granted	EJB	HATCHER, WILLIAM J. KLECKER, BRIAN D. REED, MARTIN E. SINK, DANNY R.
Title: ONE-WAY OVERRUNNING CLUTCH							

BRN013	US	5,678,668	21-Oct-1997	26-Aug-1996	Granted	SJM	SINK, DANNY R.
Title: ONE-WAY OVERRUNNING CLUTCH MECHANISM							

BRN016	US	6,471,211	29-Oct-2002	28-Aug-2000	Granted	SJM	GARNETT, MARK W. SINK, DANNY R.
Title: SEAL ASSEMBLY							

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Granted From To

Division: CNM CONSOLIDATED METCO

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
005998	US	4,892,324	09-Jan-1990	22-Aug-1988	Granted	001	PITCHFORD, TERRY L. RADWILL, ROBERT P. SPENCER, CHARLES P.
<b>Title:</b> FIFTH WHEEL MOUNTING PAD							
006000	US	4,871,182	03-Oct-1989	26-Feb-1988	Granted	001	ALTHERR, RUSSELL G. GLASER, RICHARD L. MADURA, FRANCIS E. RADWILL, ROBERT P.
<b>Title:</b> FIFTH WHEEL UNLOCKING AND SAFETY LATCH DEVICE							
006045	US	5,028,067	02-Jul-1991	16-Apr-1990	Granted	001	MADURA, FRANCIS E.
<b>Title:</b> AUTOMATIC FIFTH WHEEL SAFETY LOCK DEVICE							
006056	US	5,176,396	05-Jan-1993	03-Apr-1991	Granted	001	HAWTHORNE, V. TERREY KAIM, JOHN W.
<b>Title:</b> Fifth Wheel Unlocking Device With Fluid Powered Redundancy							
006057	US	5,137,298	11-Aug-1992	19-Feb-1991	Granted	002	MADURA, FRANCIS E.
<b>Title:</b> FIFTH WHEEL LOCKING DEVICE							
006060	US	5,165,714	24-Nov-1992	08-Mar-1991	Granted	001	KAIM, JOHN W.
<b>Title:</b> TRACTOR FIFTH WHEEL WITH BEARING PLATE LUBRICATING LINER							

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Division: CNM CONSOLIDATED METCO

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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006068	US	5,472,223	05-Dec-1995	30-Nov-1993	Granted	FSG	HAWTHORNE, V. TERREY KAIM, JOHN W.
<b>Title:</b> AIR OPERATED FIFTH WHEEL							

006081	US	5,368,324	29-Nov-1994	10-Jan-1994	Granted	EJB	KAIM, JOHN W.
<b>Title:</b> IMPROVED MOUNTING SYSTEM FOR FIFTH WHEELS							

006157	US	5,865,458	02-Feb-1999	20-Dec-1996	Granted	FSG	GOLEMBIEWSKI, RONALD HAWTHORNE, V. TERREY KAIM, JOHN W.
<b>Title:</b> REDUCED WEIGHT FIFTH WHEEL ASSEMBLY							

006157CIP	US	6,199,889	13-Mar-2001	06-Oct-1998	Granted	FSG	GOLEMBIEWSKI, RONALD HAWTHORNE, V. TERREY KAIM, JOHN W. RUBACK, JEFFREY M.
<b>Title:</b> REDUCED WEIGHT FIFTH WHEEL ASSEMBLY							

006188	US	6,272,949	14-Aug-2001	23-Dec-1998	Granted	SJM	GORMAN, THOMAS P. JARVIS, DAVID J. MADURA, FRANCIS E.
<b>Title:</b> AIR OPERATED FIFTH WHEEL UNCOUPLING APPARATUS							

006225	US	5,757,084	26-May-1998	15-Sep-1995	Granted	EJB	WAGNER, MARK A.
<b>Title:</b> WHEEL HUB ASSEMBLY AND METHOD OF INSTALLING A HUB ON AN AXLE							

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Division: CNM CONSOLIDATED METCO  
Granted From To

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006226	US	D381,615	29-Jul-1997	15-Sep-1995	Granted	EJB	OREY, GARY L. SMITH, DONALD L.
Title: WHEEL HUB							
006227	US	6,149,244	21-Nov-2000	29-May-1998	Granted	EJB	WAGNER, MARK A.
Title: WHEEL HUB ASSEMBLY AND METHOD OF INSTALLING A HUB ON AN AXLE							
006228	US	5,997,103	07-Dec-1999	03-Mar-1998	Granted	EJB	WAGNER, MARK A.
Title: WHEEL HUB ASSEMBLY AND METHOD OF INSTALLING A HUB ON AN AXLE							
006229	US	D470,447	18-Feb-2003	16-Jan-2002	Granted	EJB	OREY, GARY L.
Title: TRUCK DISC WHEEL HUB							
006230	US	6,193,463	27-Feb-2001	30-Jun-1999	Granted		ADEFF, GEORGE A. MARR, CHRISTOPHER S.
Title: DIE CAST COMPRESSOR HOUSING FOR CENTRIFUGAL COMPRESSORS WITH A TRUE VOLUTE SHAPE							



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Division: DCC DIAMOND CHAIN COMPANY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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006155	US	6,141,861	07-Nov-2000	08-Sep-1997	Granted	SJM	ARMENOFF, DAVE
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Title: CONTROL OF ROLLER CHAIN ASSEMBLY  
FREY, DAVID

006156	US	6,029,342	29-Feb-2000	08-Sep-1997	Granted	SJM	ARMENOFF, DAVE
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Title: APPARATUS, KIT & METHOD FOR ROLLER CHAIN ASSEMBLY  
FREY, DAVID

006164	US	5,865,021	02-Feb-1999	25-Aug-1997	Granted	EJB	BINFORD, ANDREW J.
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Title: COATED ROLLER CHAIN PIN  
DUERIGEN, ROBERT T.

006177	US	6,224,124	01-May-2001	02-Oct-1998	Granted	FSG	BOLTON, WILLIAME.
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Title: PARTS TRANSFER AND CONTROL CIRCUIT SYSTEM  
VOLLRATH, VICTOR V.

006189	US	6,302,818	16-Oct-2001	21-Jul-1999	Granted	FSG	HAIGHT, JEFFREY A.
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Title: TAPERED BUSHING FOR A ROLLER CHAIN

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Granted From To

Division: GPP GRIFFIN PIPE PRODUCTS CO.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
005854	US	4552385	12-Nov-1985	03-Jan-1983	Granted	001	PETING, ROBERT G.
Title: BOLTLESS RESTRAINED PIPE JOINT							
005855	US	4506919	26-Mar-1985	03-Jan-1983	Granted	001	PETING, ROBERT G.
Title: RESTRAINED MECHANICAL PIPE JOINT							
006027	US	5037144	06-Aug-1991	02-May-1990	Granted	001	BUDZIAK, JOHN J. PETING, ROBERT G.
Title: RESTRAINED PIPE JOINT							
006037	US	5,037,600	06-Aug-1991	30-Apr-1990	Granted	001	UPCHURCH, THURMAN H.
Title: METHOD OF APPLYING A POLYOLEFIN COATING TO PIPE							
006037DIV	US	5,271,974	21-Dec-1993	22-Apr-1991	Granted	001	UPCHURCH, THURMAN H.
Title: IMPROVED CEMENT AND POLYOLEFIN LINED PRODUCT							
006089	US	5,427,604	27-Jun-1995	03-Dec-1993	Granted	FSG	BAILEY, EUGENE B. LOVING, C. GILMER PETING, ROBERT G.
Title: ALLOY MATERIAL ADDITION METHOD AND APPARATUS FOR SMELTING AND MELTING FURNACES							
006109	US	5,585,141	17-Dec-1996	01-Jul-1994	Granted	001	FARKAS, STEVEN LOVING, C. GILMER
Title: CALCIUM ALUMINA CEMENT LINED PIPE							

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Division: GPP GRIFFIN PIPE PRODUCTS CO.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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006109DIV	US	5,955,162	21-Sep-1999	19-Aug-1996	Granted	EJB	FARKAS, STEVEN LOVING, C. GILMER
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006179	US	6,090,180	18-Jul-2000	29-Jul-1998	Granted	EJB	KIDD, MITCHELL E. MCNALLY, CRAIG E. PETING, ROBERT G. QUALIZZA, GREGORY K.
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006183	US	6,149,376	21-Nov-2000	02-Dec-1998	Granted	SJM	PETING, ROBERT G.
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006202	US	6,397,923	04-Jun-2002	29-Jul-1999	Granted	SJM	GOBELLE, JOSEPH J. PETING, ROBERT G.
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006211	US	6,425,436	30-Jul-2002	16-Jun-2000	Granted	SJM	PETING, ROBERT G.
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Granted From To

Division: GWC GRIFFIN WHEEL COMPANY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
005858	US	4,585,048	29-Apr-1986	18-Jul-1983	Granted	001	JEFFREYS, LYMAN W.
Title: MOLD TRANSFER ASSEMBLY							
005860	US	4,825,772	02-May-1989	18-Jul-1983	Granted	001	JEFFREYS, LYMAN W.
Title: POURING TANK & TRACK TRANSFER ASSEMBLY							
005862	US	4,545,058	01-Oct-1985	15-Dec-1983	Granted	001	POZO, JAIME F.
Title: ELECTRIC FURNACE REFRACTORY ROOF FORM							
005871	US	4,538,357	03-Sep-1985	15-Dec-1983	Granted	001	DRESSEL, WILLIAM G.
Title: RAILWAY WHEEL ROTUNDITY GAGE							
005890	US	4,602,904	29-Jul-1986	12-Jun-1985	Granted	001	JEFFREYS, LYMAN W.
Title: METHOD OF OBTAINING TEMPERATURE OF AN OBJECT BEING HEAT TREATED							
005891	US	4,679,447	14-Jul-1987	13-Jan-1986	Granted	001	JEFFREYS, LYMAN W.
Title: METHOD AND APPARATUS FOR POSITIONING AND TESTING R.R. WHEELS							
005910	US	4,679,358	14-Jul-1987	20-Mar-1986	Granted	001	SIERADZKI, CHRIS Z.
Title: GRINDING WHEEL ADVANCED APPARATUS							

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Division: GWC GRIFFIN WHEEL COMPANY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
005915	US	4,719,793	19-Jan-1988	08-Dec-1986	Granted	001	POZO, JAIME F.
<b>Title:</b> HARDNESS TESTING APPARATUS							
005938	US	4,809,883	07-Mar-1989	05-Oct-1987	Granted	001	POZO, JAIME F.
<b>Title:</b> SAND DISPENSING ASSEMBLY							
006063	US	5,158,416	27-Oct-1992	29-Aug-1991	Granted	001	POZO, JAIME F.
<b>Title:</b> APPARATUS FOR HANDLING RAILWAY WHEELS							
006070	US	5,209,021	11-May-1993	30-Aug-1991	Granted	EJB	CHRISTIE, C. DALE POZO, JAIME F. TAFF, CHARLES W.
<b>Title:</b> APPARATUS AND METHOD FOR SPRUE REMOVAL AND GRINDING OF RAILROAD WHEELS							
006070DIV	US	5,319,892	14-Jun-1994	31-Dec-1992	Granted	002	CHRISTIE, C. DALE POZO, JAIME F. TAFF, CHARLES W.
<b>Title:</b> APPARATUS AND METHOD OF SPRUE REMOVAL AND GRINDING OF RAILWAY WHEELS							
006073	US	5,238,216	24-Aug-1993	30-Aug-1991	Granted	FSG	PAWLJK, JOHN L.
<b>Title:</b> Apparatus For Modifying Thermal Gradient For Casting In Graphite Molds							

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Division: GWC GRIFFIN WHEEL COMPANY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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006100	US	5,333,926	02-Aug-1994	23-Mar-1993	Granted	FSG	CHRISTIE, C. DALE GALLAGHER, MICHAEL
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Title: RAILWAY WHEEL AND METHOD OF MANUFACTURE  
HENDRICKSEN, MICHAEL  
OLIVER, JOHN D.  
POLZIN, MARK, A.

006134	US	5,574,233	12-Nov-1996	17-Oct-1994	Granted	FSG	OLIVER, JOHN D. WHITSON, ROGER M.
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Title: A NON-CONTACT RAILWAY WHEEL TEST APPARATUS AND METHOD

006140	US	5,905,752	18-May-1999	15-Jul-1996	Granted	SJM	PETERS, CRAIG L. SIERADZKI, CHRIS Z.
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Title: ARC FURNACE FUME COLLECTION SYSTEM

006140DIV	US	5,987,051	16-Nov-1999	22-Feb-1999	Granted	SJM	PETERS, CRAIG L.
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Title: ARC FURNACE FUME COLLECTION SYSTEM AND METHOD

006140DIV	US	6,136,068	24-Oct-2000	22-Feb-1999	Granted	SJM	PETERS, CRAIG L.
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Title: ARC FURNACE FUME COLLECTION METHOD

006140DIV	US	6,301,285	09-Oct-2001	05-Sep-2000	Granted	SJM	PETERS, CRAIG L. SIERADZKI, CHRIS Z.
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Title: ARC FURNACE FUME COLLECTION METHOD

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Division: GWC      GRIFFIN WHEEL COMPANY  
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Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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006142	US	5,864,065	26-Jan-1999	25-Nov-1997	Granted	FSG	KUCERA, WILLIAM J. KUZNIESKI, CHARLES J PROROK, RAYMOND F.
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006146	US	5,823,357	20-Oct-1998	11-Jul-1997	Granted	SJM	POZO, JAIME F. SIERADZKI, CHRIS Z.
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006160	US	6,081,545	27-Jun-2000	21-Sep-1998	Granted	SJM	SANDOR, LOUIS SIERADZKI, CHRIS Z.
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006161	US	6,506,337	14-Jan-2003	06-Apr-2001	Granted	FSG	SIERADZKI, CHRIS Z.
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006162	US	5,964,272	12-Oct-1999	08-Dec-1997	Granted	EJB	SIERADZKI, CHRIS Z.
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006163	US	5,891,266	06-Apr-1999	29-Dec-1997	Granted	SJM	CHRISTIE, C. DALE GRAY, DANIEL H. KONRARDY, NEIL E. VANLAAR, BRIAN L.
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Division: GWC GRIFFIN WHEEL COMPANY

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
006165	US	5,938,516	17-Aug-1999	17-Dec-1997	Granted	FSG	SIMPSON, JOHN H. VANLAAR, BRIAN L.
<b>Title:</b> GRINDING WHEEL AND METHOD FOR REMOVAL OF SPRUES AND RISER PADS FROM CAST RAILCAR WHEELS							
006167	US	6,058,622	09-May-2000	19-Oct-1998	Granted	EJB	SANDOR, LOUIS
<b>Title:</b> WETTING OF A POWDERY MATERIAL SUCH AS A BAGHOUSE DUST							
006169	US	5,919,392	06-Jul-1999	17-Dec-1997	Granted	FSG	MYERS, JONATHAN L. PEEVLER, GARY M.
<b>Title:</b> POURING TUBE STRUCTURE AND ASSEMBLY							
006190	US	6,216,362	17-Apr-2001	18-Feb-2000	Granted	FSG	SANDOR, LOUIS
<b>Title:</b> METHOD AND APPARATUS FOR CONTROLLING THE COOLING RATE OF CAST STEEL RAILWAY WHEELS							
006205	US	6,261,043	17-Jul-2001	17-Dec-1999	Granted	SJM	JASKARI, DOUGLAS K. PETERS, CRAIG L. SHIRLEY, MARK S. WEEMS, CASEY A.
<b>Title:</b> SCRAP HANDLING CHARGE BUCKET							
006216	US	6,318,445	20-Nov-2001	23-Jun-2000	Granted	SJM	MORRIS, GREG M. PETERS, CRAIG L. SMORYNSKI, MICHAEL E
<b>Title:</b> RISER TOPPING GATHERING SYSTEM AND METHOD							



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Division: KST KEYSTONE INDUSTRIES

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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KST002	US	5,351,562	04-Oct-1994	15-Dec-1993	Granted	SJM	SCOTT, MARK P.
Title: HYDRAULIC-PNEUMATIC CUSHIONING DEVICE WITH PRESSURE INDICATOR							

KST003	US	5,469,978	28-Nov-1995	12-Jul-1994	Granted	SJM	BANKOS, KEVIN BINGLER, DOUGLAS J.
Title: CONDITION INDICATING SYSTEM FOR RAILWAY CUSHIONING UNIT							

KST005	US	5,598,937	04-Feb-1997	14-Feb-1996	Granted	SJM	CLARK, MARLIN E.
Title: SLACKLESS DRAWBAR ASSEMBLY							

KST007	US	5,746,335	05-May-1998	01-May-1996	Granted	SJM	BROUGH, STEVE A. DEPPEN, JOHN F.
Title: DOUBLE ACTING CENTER-OF-CAR CUSHIONING DEVICE							

KST008	US	5,908,123	01-Jun-1999	21-Jan-1997	Granted	SJM	HUGGINS, RUSSELL J.
Title: RAIL CAR BUFFER AND METHOD							

KST009	US	5,927,523	27-Jul-1999	30-May-1997	Granted	SJM	HUGGINS, RUSSELL, J. PERSHWITZ, JULIUS I. SCOTT, MARK P
Title: RAIL CAR BUFFER							

KST011	US	6,047,839	11-Apr-2000	03-Feb-1998	Granted	SJM	HUGGINS, RUSSELL J.
Title: RAIL CAR BUFFER							

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Division: KST KEYSTONE INDUSTRIES

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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KST016	US	6,357,612	19-Mar-2002	11-Apr-1997	Granted	SJM	MONACO, JAY P.
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Title: SELF-POSITIONING RAIL CAR CUSHIONING DEVICE  
PERSHWITZ, JULIUS I.  
SCOTT, MARK P.

KST017	US	6,279,765	28-Aug-2001	20-Jan-1998	Granted	SJM	MONACO, JAY P.
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Title: RAILCAR CUSHIONING DEVICE WITH INTERNAL SPRING

KST018	US	6,199,708	13-Mar-2001	05-Mar-1999	Granted	SJM	MONACO, JAY P.
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Title: RAILCAR CUSHIONING DEVICE WITH INTERNAL ELASTOMERIC SPRING

Tuesday, September 23, 2003

Granted Patent List

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Granted From To

Division: MNS MEANS INDUSTRIES

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
MNS001	US	5,070,978	10-Dec-1991	19-Apr-1990	Granted	FSG	PIRES, PAUL B.
Title: ONE WAY DRIVE DEVICE							

MNS002	US	5,449,057	12-Sep-1995	10-Jan-1994	Granted	FSG	FRANK, ARTHUR R.
Title: ONE-WAY CLUTCH APPARATUS							

MNS003	US	5,597,057	28-Jan-1997	01-Feb-1995	Granted	FSG	FRANK, RICHARD KLECKER, BRIAN D. RUTH, STEPHEN M.
Title: ONE-WAY CLUTCH APPARATUS							

MNS004	US	5,647,628	15-Jul-1997	10-May-1995	Granted	FSG	HIGASHI, WAYNE K. PIRES, PAUL B.
Title: LINEAR ONE WAY MOVEMENT DEVICE AND PASSENGER SEAT ASSEMBLY USING THE DEVICE							

MNS005	US	5,678,668	21-Oct-1997	26-Aug-1996	Granted	FSG	SINK, DANNY R.
Title: ONE-WAY OVERRUNNING CLUTCH MECHANISM							

MNS006	US	5,678,675	21-Oct-1997	23-Aug-1996	Granted	FSG	DOVER, CHARLES E. EBEL, LORNE L. FIELD, ROBERT H.
Title: CLUTCH PLATE							

Tuesday, September 23, 2003

Granted Patent List

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Granted From To

Division: MNS MEANS INDUSTRIES

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
MNS007	US	5,699,889	23-Dec-1997	16-Apr-1996	Granted	FSG	GADD, CRAIG T.
<b>Title:</b> ONE WAY DRIVE DEVICE WITH A DOG CLUTCH TO TRANSMIT TORQUE AND A RATCHET CLUTCH TO PROVIDE AN OVERRUN FUNCTION							
MNS008	US	5,799,930	01-Sep-1998	30-Jan-1997	Granted	FSG	WILLETT, MARK A.
<b>Title:</b> BODY MOUNT ASSEMBLY							
MNS009	US	5,806,643	15-Sep-1998	01-May-1996	Granted	FSG	FITZ, FRANK
<b>Title:</b> ONE WAY DRIVE DEVICE AND MECHANICAL ASSEMBLY INTEGRATING THE DEVICE							
MNS010	US	5,870,930	16-Feb-1999	03-Sep-1996	Granted	FSG	SHAW, DAVID W. WILLETT, MARK A.
<b>Title:</b> STEERING COLUMN ASSEMBY							
MNS011	US	5,871,071	16-Feb-1999	21-Jun-1996	Granted	FSG	SINK, DANNY R.
<b>Title:</b> ONE-WAY HIGH TORQUE CLUTCH MECHANISM							
MNS012	US	5,918,715	06-Jul-1999	09-Jun-1997	Granted	FSG	KLECKER, BRIAN D. RUTH, STEPHEN M.
<b>Title:</b> OVERRUNNING PLANAR CLUTCH ASSEMBLY							

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Granted Patent List

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Granted From To

Division: MNS MEANS INDUSTRIES

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
MNS013	US	5,964,331	12-Oct-1999	02-Dec-1996	Granted	FSG	HATCHER, WILLIAM J. KLECKER, BRIAN D. REED, MARTIN E. SINK, DANNY R.
Title: ONE-WAY OVERRUNNING CLUTCH							
MNS013CO	US	6,129,190	10-Oct-2000	08-Oct-1999	Granted	EJB	HATCHER, WILLIAM J. KLECKER, BRIAN D. REED, MARTIN E. SINK, DANNY R.
Title: ONE-WAY OVERRUNNING CLUTCH							
MNS014	US	5,972,476	26-Oct-1999	21-Nov-1997	Granted	FSG	FIELD, ROBERT H.
Title: LAMINATED PARTS AND METHOD OF MAKING SAME							
MNS015	US	5,979,627	09-Nov-1999	10-Dec-1997	Granted	FSG	HARRISON, SHARON G. RUTH, STEPHEN M.
Title: DAMPER ASSEMBLY							
MNS016	US	6,032,774	07-Mar-2000	30-Dec-1997	Granted	FSG	GADD, CRAIG T.
Title: ONE WAY DRIVE DEVICE WITH A DOG CLUTCH TO TRANSMIT TORQUE AND A RATCHET CLUTCH TO PROVIDE AN OVERRUN FUNCTION							

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Granted Patent List

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Division: MNS MEANS INDUSTRIES

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
MNS017	US	D379,343	20-May-1997	17-Apr-1995	Granted	FSG	SCOTT, GARY B. SHAW, DAVID W. SHORTLAND, ROBERT J.
Title: TRAILER HITCH							
MNS017DI	US	D420,631	15-Feb-2000	01-Nov-1996	Granted	FSG	SCOTT, GARY B. SHAW, DAVID W. SHORTLAND, ROBERT J.
Title: TRAILER HITCH							
MNS018	US	D373,557	10-Sep-1996	27-Apr-1995	Granted	FSG	SCOTT, GARY B. SHAW, DAVID W. SHORTLAND, ROBERT J.
Title: TRAILER HITCH							
MNS019	US	6,065,576	23-May-2000	20-Mar-1998	Granted	SJM	SCOTT, GARY B. SHAW, DAVID W.
Title: STRUT FOR PLANAR ONE-WAY CLUTCH							
MNS020	US	6,116,394	12-Sep-2000	13-Aug-1999	Granted		RUTH, STEPHEN M.
Title: OVERRUNNING COUPLING ASSEMBLY							
MNS021	US	6,125,980	03-Oct-2000	07-Jan-2000	Granted		RUTH, STEPHEN M. SHAW, DAVID WILLIAM METHOD
Title: OVERRUNNING COUPLING ASSEMBLY AND MANUFACTURING METHOD							

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Granted Patent List

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Division: MNS      MEANS INDUSTRIES      Granted From      To

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
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MNS022	US	6,186,299	13-Feb-2001	30-Nov-1999	Granted		RUTH, STEPHEN M.
Title:      OVERRUNNING COUPLING ASSEMBLY							

MNS023	US	6,193,038	27-Feb-2001	18-Aug-1999	Granted		PAWLEY, BRUCE A. PROUT, JEFFREY J. RUTH, STEPHEN M. SCOTT, MARK P.
Title:      ONE-WAY CLUTCH AND METHOD FOR MAKING SAME							

MNS024	US	6,386,349	14-May-2002	17-Jan-2001	Granted	EJB	WELCH, SEAN M.
Title:      COMPACT CLUTCH ASSEMBLY FEATURING DUAL SELECTIVELY-OPERATIVE ONE-WAY CLUTCHES							

MNS025	US	5,964,331	12-Oct-1999	02-Dec-1996	Granted	EJB	HATCHER, WILLIAM J. KLECKER, BRIAN D. REED, MARTIN E. SINK, DANNY R.
Title:      ONE-WAY OVERRUNNING CLUTCH							

MNS026	US	6,494,423	17-Dec-2002	25-Feb-2002	Granted	EJB	RUTH, STEPHEN M.
Title:      LOCKING TELESCOPING MEMBER WITH ATTITUDE-RESPONSIVE RELEASE							

MNS027	US	6,481,551	19-Nov-2002	27-Nov-2000	Granted	EJB	RUTH, STEPHEN M.
Title:      INERTIA-ACTUATED OVERRUNNING COUPLING ASSEMBLY							

Tuesday, September 23, 2003

Granted Patent List

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Division: MNS MEANS INDUSTRIES  
Granted From To

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
MNS028	US	6,244,965	12-Jun-2001	28-Apr-1998	Granted	EJB	HARRISON, SHARON KLECKER, BRIAN D.

Title: CONTROLLABLE OVERRUNNING COUPLING

MNS029	US	6,333,112	25-Dec-2001	14-Aug-1999	Granted	EJB	FIELD, ROBERT H.
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Title: LAMINATED ONE-WAY CLUTCH

MNS030	US	6,571,926	03-Jun-2003	12-Jan-2001	Granted	EJB	PAWLEY, BRICE
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Title: ONE-WAY CLUTCH ASSEMBLY FEATURING IMPROVED STRUT STABILITY



Tuesday, September 23, 2003

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Granted From To

Division: MRD MERIDIAN RAIL INFORMATION SYS.

Case Number	Country	Patent Number	Grant Date	Filing Date	Status	Attorney	Inventors
MRD001	US	5,027,716	02-Jul-1991	07-Dec-1989	Granted	EJB	WEBER, HANS B. LONG, JACK R.
<b>Title:</b> STABILIZED SWING-MOTION TRUCK FOR RAILWAY CARS							
MRD002	US	5,463,964	07-Nov-1995	12-May-1994	Granted	EJB	LONG, JACK R. WEBER, HANS B.
<b>Title:</b> ROCKER SEAT CONNECTION							
MRD003	US	5,802,982	08-Sep-1998	22-Aug-1997	Granted	EJB	WEBER, HANS B.
<b>Title:</b> ROLL CONTROL MECHANISM FOR SWING MOTION TRUCK							
MRD004	US	5,222,441	29-Jun-1993	15-Jun-1992	Granted	EJB	WEBER, HANS B.
<b>Title:</b> FASTENING DEVICE FOR A RAILROAD CAR TRUCK ROCKER SEAT							
MRD005	US	6,142,081	07-Nov-2000	07-May-1998	Granted	EJB	LONG, JACK R. WEBER, HANS B.
<b>Title:</b> PEDESTAL ROCKER SEAT FOR PROVIDING PASSIVE AXLE STEERING TO A RIGID RAILWAY TRUCK							
MRD006	US	5,239,932	31-Aug-1993	15-Jun-1992	Granted	EJB	WEBER, HANS B.
<b>Title:</b> FORCE DAMPENING MECHANISM OF A RAILROAD CAR TRUCK							
MRD007	US	6,374,749	23-Apr-2002	07-Oct-1999	Granted	EJB	DUNCAN, SCOTT R. IRVING, ROBERT M. SKAWINSKI, VALERIAN
<b>Title:</b> FRICTION WEDGE FOR A RAILROAD CAR TRUCK HAVING A REPLACEABLE WEAR MEMBER							

Total Records Selected = 251

Division:

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
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Country: US United States of America

AMSTED	Registered	0000000071			771,304	09-Jun-1964	09-Jun-2004	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

SNAP-LOK	Unfiled	0000000649						EJB
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Owner:

Division: ASF AMERICAN STEEL FOUNDRIES

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
Country: US United States of America								
400-C	Registered	000000010	74/733,695	25-Sep-1995	1,997,068	27-Aug-1996	27-Aug-2006	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
ALLIANCE	Renewed	000000049	528,024	05-Jul-1947	500,163	04-May-1948	04-May-2008	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
AMERICAN STEEL FOUNDRIES	Registered	000000054	75/509794	29-Jun-1998	2,313,401	01-Feb-2000	01-Feb-2010	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
AMSTED	Renewed	000000070	146,870	14-Jun-1962	771,422	16-Jun-1964	16-Jun-2004	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
AR-1	Registered	000000086	73-835,780	3-Nov-1989	1,615,604	02-Oct-1990	02-Oct-2010	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
ASF	Renewed	000000099	549,867	17-Feb-1948	513,124	02-Aug-1949	02-Aug-2009	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
ASF	Renewed	000000100	72-397,869	21-Jul-1971	953,037	13-Feb-1973	13-Feb-2013	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
ASF in Octagon Design	Registered	0000000768	76/007,473	3-Mar-2000	2,484,760	04-Sep-2001	04-Sep-2011	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
ASF RIDE CONTROL	Registered	0000000745	75/645,687	16-Feb-1999	2,485,724	04-Sep-2001	04-Sep-2011	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
ASF-2001	Registered	0000000104	75/037,492	9-Dec-1995	2,100,137	23-Sep-1997	23-Sep-2007	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
ASF-FOT	Registered	0000000105	75/416,682	12-Feb-1998	2,228,211	02-Mar-1999	02-Mar-2009	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
ASF-HD	Registered	0000000106	75/225,015	13-Jan-1997	2,185,417	01-Sep-1998	01-Sep-2008	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								

Division: ASF AMERICAN STEEL FOUNDRIES

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
ASF-KEYSTONE	Pending	0000000795	76/480,261	06-Jan-2003				EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
CASTLOC	Registered	0000000288	74/418,959	2-Aug-1993	1,831,256	19-Apr-1994	19-Apr-2004	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
EXTENDED LIFE	Registered	0000000413			683,567	18-Aug-1979	18-Aug-1999	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
FAMILY OF TRUCKS	Registered	0000000787	76/384,932	9-Mar-2002	2,660,954	10-Dec-2002	10-Dec-2012	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
HC IN DESIGN	Registered	0000000454	199,903	4-Aug-1964	790,960	15-Jun-1985	15-Jun-2005	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
HYLASTIC	Renewed	0000000468	552,928	5-Mar-1948	513,142	02-Aug-1949	02-Aug-2009	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
LOW PROFILE	Registered	0000000489	432,957	6-Aug-1972	2974,542	11-Dec-1973	11-Dec-2003	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
MOTION CONTROL	Pending	0000000805	76/538,297	9-Aug-2003				EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
OCTAGON DESIGN	Renewed	0000000504	71/127,791	31-Jan-1920	137,535	30-Nov-1920	30-Nov-2010	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
OCTAGON DESIGN	Renewed	0000000505	547,812	23-Jan-1948	514,468	30-Aug-1949	30-Aug-2009	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
PRECISION CAST	Pending	0000000804	76/539170	1-Aug-2003				EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
RIDE CONTROL	Renewed	0000000580	547,814	23-Jan-1948	514,470	30-Aug-1949	30-Aug-2009	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
RIDEMASTER	Renewed	0000000600	174736	9-Aug-1963	767,458	31-Mar-1964	31-Mar-2004	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								

Division: ASF AMERICAN STEEL FOUNDRIES

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
ROADMASTER	Registered	0000000603	577,294	13-Jan-1986	1,411,223	30-Sep-1986	30-Sep-2006	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
ROTO-ACTION	Registered	0000000607	75/416,690	12-Jan-1998	2,238,593	13-Apr-1999	13-Apr-2009	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
S IN DESIGN (Circle)	Renewed	0000000614	174,541	12-Jan-1923	186,307	08-Jul-1924	08-Jul-2004	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SIMPLEX	Renewed	0000000637	691,542	19-Jul-1955	619,829	24-Jan-1956	24-Jan-2006	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SLACK-FREE	Registered	0000000646	278,179	4-Aug-1967	853,094	23-Jul-1968	23-Jul-2008	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SLACK-FREE (Suppl. Reg.)	Registered	0000000647	73/596,228	1-May-1986	1,445,737	30-Jun-1987	30-Jun-2007	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SLOPEGARD	Registered	0000000777	73/697,702	7-Nov-1987	1,501,251	23-Aug-1988	23-Aug-2008	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SSRC	Registered	0000000652	75/416,689	12-Feb-1998	2,228,215	02-Mar-1999	02-Mar-2009	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
SSRIM	Registered	0000000653	75/416,683	12-Feb-1998	2,228,212	02-Mar-1999	02-Mar-2009	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
SSRM	Registered	0000000654	75/416,688	12-Feb-1998	2,228,214	02-Mar-1999	02-Mar-2009	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
SUPER SERVICE	Registered	0000000658	75/469,147	16-Apr-1998	2,266,776	03-Aug-1999	03-Aug-2009	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SUPER SERVICE RIDE CONTROL	Registered	0000000662	73/835,779	3-Nov-1989	1,600,679	12-Jun-1990	12-Jun-2010	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								

Division: ASF AMERICAN STEEL FOUNDRIES

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
SUPER SERVICE RIDEMASTER	Registered	0000000664	75/020,932	6-Nov-1995	2,091,997	26-Aug-1997	26-Aug-2007	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SUPER SILL	Registered	0000000751	75/873,978	8-Dec-1999	2,422,377	16-Jan-2001	16-Jan-2011	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
TAPERLOC	Registered	0000000668	72/457,303	4-May-1973	983,732	14-May-1974	14-May-2004	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
TOUCHLOC	Registered	0000000673	74/133,197	24-Jan-1991	1,722,943	06-Oct-1992	06-Oct-2002	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
TWIN-PACK	Open	0000000791	76/453,920	30-Sep-2002				EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
TWIN-PACK	Unfiled	0000000792						EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
VERSA-FRAME	Pending	0000000799	76/509,719	28-Apr-2003				EJB
Owner: AMSTED INDUSTRIES INCORPORAT								

Division: BAC BALTIMORE AIRCOIL COMPANY, INC

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
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Country: US United States of America

µ-LOGIC	Renewed	0000000004	74/275,734	5-May-1992	1,767,284	27-Apr-1993	27-Apr-2013	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 9

B.A.C.	Renewed	0000000114	362,798	16-Jun-1970	926,854	11-Jan-1972	11-Jan-2012	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

B.A.C. IN CIRCLE DESIGN	Renewed	0000000182	72-060,257	08-Oct-1958	677,693	28-Apr-1959	28-Apr-2009	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

B.A.C. IN CIRCLE DESIGN	Renewed	0000000183	362,797	16-Jun-1970	947,238	14-Nov-1972	14-Nov-2002	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

BAC EXPRESS AND DESIGN	Registered	0000000776	75/242,669	18-Feb-1997	2,211,692	15-Dec-1998	15-Dec-2008	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

BAC IN CIRCLE & BALTIMORE AIRCOIL IN ANNULUS OF CO	Registered	0000000190	75/106,947	7-May-1996	2,069,441	10-Jun-1997	10-Jun-2007	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

BACOUNT	Registered	0000000199	73/746,560	6-Aug-1988	1,532,902	04-Apr-1989	04-Apr-2009	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

BACROSS	Registered	0000000210	373/15,196	21-Jun-1981	1,193,576	13-Apr-1982	13-Apr-2012	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

BALANCE CLEAN	Registered	0000000212	74/470,731	0-Dec-1993	1,889,789	18-Apr-1995	18-Apr-2005	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

BALTRIBOND	Registered	0000000223	73/348,754	04-Feb-1982	1,235,677	26-Apr-1983	26-Apr-2013	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 11

BALTDRIIVE	Registered	0000000241	73/567,398	7-Nov-1985	1,397,406	17-Jun-1986	17-Jun-2006	EJB
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Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 7

Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 7

Division: BAC BALTIMORE AIRCOIL COMPANY, INC

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
BALTIMORE AIRCOIL COMPANY	Registered	0000000266	75/242,670	18-Feb-1997	2,144,457	17-Mar-1998	17-Mar-2008	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
EASY CONNECT	Renewed	0000000405	74/203,574	16-Sep-1991	1,735,844	24-Nov-1992	24-Nov-2012	FSG
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
EASY CONNECT	Registered	0000000406	75/474,305	27-Apr-1998	2,279,064	21-Sep-1999	21-Sep-2009	FSG
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
EJECTOR	Registered	0000000408	73/746564	6-Aug-1988	1,537,338	02-May-1989	02-May-2009	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
ENERGY-MISER	Renewed	0000000412	74/290,319	01-Jul-1992	1,758,008	16-Mar-1993	16-Mar-2013	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 7								
HIGH-K	Registered	0000000461	73/567,681	8-Nov-1985	1,397,559	17-Jun-1986	17-Jun-2006	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
ICE CHILLER	Renewed	0000000477	73/800,210	5-May-1989	1,573,197	26-Dec-1989	26-Dec-2009	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
ICE CHILLER	Registered	0000000478	73/498,397	07-Sep-1984	1,412,745	07-Oct-1986	07-Oct-2006	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
ICE-LOGIC	Registered	0000000480	74/275,758	5-May-1992	1,762,565	06-Apr-1993	06-Apr-2013	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 9								
IOBIO	Registered	0000000481	74/301,691	6-Aug-1992	1,820,357	08-Feb-1994	08-Feb-2004	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 1								
IOBIO & DESIGN	Registered	0000000482	74/522,999	2-May-1994	1,911,246	15-Aug-1995	15-Aug-2005	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								
JE PREMIER SERIES	Registered	0000000483	74/470,651	0-Dec-1993	1,866,892	13-Dec-1994	13-Dec-2004	EJB
Owner: BALTIMORE AIRCOIL COMPANY, I Classes: 11								



Division: BAC BALTIMORE AIRCOIL COMPANY, INC

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
LOUVER-TO-LOUVER	Registered	0000000485	74/275,756	5-May-1992	1,830,888	12-Apr-1994	12-Apr-2004	EJB

Owner: BALTIMORE AIRCOIL COMPANY, I

Classes: 36

Division: BN BURGESS-NORTON MFG. CO.

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
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Country: US United States of America

AMSTED	Registered	000000076	75/331,061	24-Jul-1997	2,203,797	17-Nov-1998	17-Nov-2008	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

B-N	Renewed	000000108	71/536,759	04-Oct-1947	518,081	29-Nov-1949	29-Nov-2009	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

BN (Stylized Logo)	Registered	0000000269	74/507,118	0-Mar-1994	1,888,214	11-Apr-1995	11-Apr-2005	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

BURGESS-NORTON	Registered	0000000284	78,693	1-Mar-1976	1,132,076	01-Apr-1980	01-Apr-2000	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

DEKA-LOK	Registered	0000000303	532,201	15-Apr-1985	1,492,583	14-Jun-1988	14-Jun-2008	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

PERFECTLAP	Registered	0000000512	733,474	10-Jun-1988	1,518,663	03-Jan-1989	03-Jan-2009	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

QUALI-DENSE	Registered	0000000546	75/275,949	16-Apr-1997	2,158,769	19-May-1998	19-May-2008	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

QUALI-SINT	Registered	0000000547	73/831,325	16-Oct-1989	1,619,446	30-Oct-1990	30-Oct-2010	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

Division: BRN BRENCO INC.

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
Country: US United States of America								
BRENCO	Registered	0000000769	74/287549	23-Jun-1992	1,777,652	22-Jun-1993	22-Jun-2003	
Owner: AMSTED INDUSTRIES INCORPORAT								
Classes: 7, 12								
DDL	Registered	0000000770	74/285,564	17-Jun-1992	1,752,424	16-Feb-1993	16-Feb-2003	
Owner: AMSTED INDUSTRIES INCORPORAT								
Classes: 12								
E-Z WRENCH	Registered	0000000771	74/226857	9-Nov-1991	1,808,835	07-Dec-1993	07-Dec-2003	
Owner: AMSTED INDUSTRIES INCORPORAT								
Classes: 8								
UNIT IV	Registered	0000000772	74/226856	9-Nov-1991	1,734,355	24-Nov-1992	24-Nov-2012	
Owner: AMSTED INDUSTRIES INCORPORAT								
Classes: 6								

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Country List

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Division: CONM Consolidated Metco

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
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Country: US United States of America

CASTLITE	Published	0000000788	76/396,037	15-Apr-2002				EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 12

CON MET and Design	Registered	0000000781	72/252,611	18-Jul-1966	853,151	23-Jul-1968	23-Jul-2008	
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 12

CON MET and Design	Registered	0000000782	73/140,517	09-Sep-1977	1,112,681	06-Feb-1979	06-Feb-2009	
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 12, 40

PRESET	Registered	0000000775	75/318,765		2,362,639	27-Jun-2000	27-Jun-2006	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

SIMPLEX LITE	Registered	0000000641	75/044,973	18-Jan-1996	2,089,967	19-Aug-1997	19-Aug-2007	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT

Classes: 12

Division: DCC DIAMOND CHAIN COMPANY

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
Country: US United States of America								
AMSTED	Registered	000000073	146,882	04-Jun-1962	771,452	16-Jun-1964	16-Jun-2004	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
CHAIN OF COMMAND	Registered	0000000773	76/019,534	07-Apr-2000	2,44,398	17-Apr-2001	17-Apr-2011	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DESIGN OF DIAMOND ON HORIZONTAL FIELD	Registered	0000000306	73/636,706	2-Dec-1986	1,452,936	18-Aug-1987	18-Aug-2007	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DIAMOND & FIGURE DESIGN	Registered	0000000311	507,045	8-Aug-1946	442,375	05-Apr-1949	05-Apr-2009	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DIAMOND ACE	Registered	0000000313	75/550,118	08-Sep-1998	2,466,116	03-Jul-2001	03-Jul-2011	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
DIAMOND DESIGN	Registered	0000000349	255,167	24-Sep-1927	238,186	31-Jan-2028	31-Jan-2008	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DIAMOND DESIGN	Registered	0000000350	698,329	0-Nov-1955	628,218	05-Jun-1956	05-Jun-2006	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DIAMOND WORD	Registered	0000000387	696,925	7-Nov-1955	625,279	17-Apr-1956	17-Apr-2006	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DIAMOND WORD	Registered	0000000388	222,786	4-Nov-1925	211,419	13-Apr-1926	13-Apr-2006	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DL	Renewed	0000000394	5239	1-Nov-1973	1,016,256	22-Jul-1975	22-Jul-2005	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DURALUBE	Renewed	0000000404	148,155	02-Jul-1962	752,031	02-Jul-1963	02-Jul-2013	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								

Division: DCC DIAMOND CHAIN COMPANY

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
DUST STOPPER (stylized O version)	Pending	0000000798	76/504,941	07-Apr-2003				EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
DUST STOPPER (text version)	Pending	0000000797	76/504,800	07-Apr-2003				EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
MICROPITCH	Renewed	0000000499	83,480	19-Oct-1959	703,898	06-Sep-1960	20-Apr-2010	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
NEW GENERATION	Unfiled	0000000744						EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
NOTHING OUTLASTS A DIAMOND	Registered	0000000774	76/042,576	8-May-2000	2,437,280	20-Mar-2001	20-Mar-2011	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
RHOMBUS & BAR DESIGN	Registered	0000000550	72/184,039	06-Jan-1964	780,240	17-Nov-1964	17-Nov-2004	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
RING LEADER	Registered	0000000602	73/623,537	02-Oct-1986	1,439,823	19-May-1987	19-May-2007	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
ROLLER CHAIN LINK PLATE WITH BEVELED EDGE DESIGN	Registered	0000000604	75/479,286	4-May-1998	2,390,562	26-Sep-2000	26-Sep-2010	FSG
Owner: AMSTED INDUSTRIES INCORPORAT								
RSC	Registered	0000000612	73/593,971	17-Apr-1986	1,418,181	25-Nov-1986	25-Nov-2006	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
SAPPHIRE	Registered	0000000624	73/746,562	6-Aug-1986	1,563,035	31-Oct-1989	31-Oct-2009	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
TUF-FLEX	Renewed	0000000684	99,725	27-Jun-1960	713,467	04-Apr-1961	04-Apr-2011	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								

Division: DCC DIAMOND CHAIN COMPANY

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
XDL	Renewed	0000000717	73/157,267	01-Feb-1978	1,115,600	27-Mar-1979	27-Mar-2009	EJB

Owner: AMSTED INDUSTRIES INCORPORAT

Classes: 12

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Division: GPP GRIFFIN PIPE PRODUCTS CO.

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
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Country: US United States of America

AMSTED	Registered	0000000074	156,292	31-Oct-1962	771,024	09-Jun-1964	09-Jun-2004	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 6

GRIFFIN	Registered	0000000439	75/516,643	10-Jul-1998	2,283,075	05-Oct-1999	05-Oct-2009	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 6

GRIFFIN-20	Registered	0000000451	75/516,644	10-Jul-1998	2,283,076	05-Oct-1999	05-Oct-2009	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 6

H2 SEWER SAFE	Registered	0000000452	74/675,787	2-May-1995	2,064,429	27-May-1997	27-May-2007	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 6

TRU-SPUN	Registered	0000000676	72/193,355	3-May-1964	782,281	29-Dec-1964	29-Dec-2004	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 6



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Country List

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Division: GWC GRIFFIN WHEEL COMPANY

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
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Country: US United States of America

AMSTED	Registered	0000000075	150,338	2-Aug-1962	771,073	09-Jun-1964	09-Jun-2004	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 12

CONCENTRIC CIRCLE DESIGN	Registered	0000000297	74/045,143	02-Apr-1990	1,631,518	15-Jan-1991	15-Jan-2011	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 12

GRIFFIN	Renewed	0000000438	72/130,209	18-Oct-1961	750,768	11-Jun-1963	11-Jun-2013	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 6

GRIFFIN	Registered	0000000441	71/648,917	17-Jun-1953	611,706	06-Sep-1955	06-Sep-2005	EJB
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Owner: AMSTED INDUSTRIES INCORPORAT  
Classes: 12

GRIFFIN ANIMAL DESIGN	Registered	0000000450	94,065	1-Mar-1960	705,877	18-Oct-1960	18-Oct-2000	EJB
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(only)

Owner: AMSTED INDUSTRIES INCORPORAT

Classes: 12

Division: KST KEYSTONE INDUSTRIES, INC.

Trademark	Status	Case Number	Application Number	Filing Date	Registration Number	Registration Date	Renewal Date	Attorney
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Country: US United States of America

KEY-GARD	Registered	0000000767	292,586	09-Jul-1992	1,812,873	21-Dec-1993	21-Dec-2003	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
KEYSTONE ROOSTER AND DESIGN	Renewed	0000000801	121,831	12-Jun-1961	753,987	06-Aug-1963	06-Aug-2003	EJB
Owner: AMSTED INDUSTRIES INCORPORAT								
QUIK-DRAW	Registered	0000000755						
Owner: AMSTED INDUSTRIES INCORPORAT								

Classes: 19

2,096,716 16-Sep-1997 16-Sep-2007 EJB