

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Release of Assignment for Security of Patents
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JPMORGAN CHASE BANK, N.A., AS ADMINISTRATIVE AGENT	04/07/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AJAX TOCCO MAGNETHERMIC CORPORATION
<b>Street Address:</b>	1745 Overland Avenue NE
<b>City:</b>	Warren
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44483
<b>Name:</b>	ATBD, INC.
<b>Street Address:</b>	6065 Parkland Blvd.
<b>City:</b>	Cleveland
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44124
<b>Name:</b>	BLUE FALCON TRAVEL, INC.
<b>Street Address:</b>	6065 Parkland Blvd.
<b>City:</b>	Cleveland
<b>State/Country:</b>	OHIO
<b>Postal Code:</b>	44124
<b>Name:</b>	COLUMBIA NUT & BOLT LLC
<b>Street Address:</b>	50 Graphic Place
<b>City:</b>	Moonachie
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07074
<b>Name:</b>	CONTROL TRANSFORMER, INC.
<b>Street Address:</b>	3701 Warren Meadville

CH \$5440.00 D359406

City:	Cortland
State/Country:	OHIO
Postal Code:	44410

Name:	FECO, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	FORGING PARTS & MACHINING COMPANY
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	GATEWAY INDUSTRIAL SUPPLY LLC
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	GENERAL ALUMINUM MFG. COMPANY
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	ILS TECHNOLOGY LLC
Street Address:	5300 Broken Sound Blvd., Suite #150
City:	Boca Raton
State/Country:	FLORIDA
Postal Code:	33487

Name:	INDUCTION MANAGEMENT SERVICES, LLC
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	INTEGRATED HOLDING COMPANY
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	INTEGRATED LOGISTICS HOLDING COMPANY
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	INTEGRATED LOGISTICS SOLUTIONS, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	LALLEGRO, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	LEWIS & PARK SCREW & BOLT COMPANY
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	PARK OHIO FORGED & MACHINED PRODUCTS LLC.
Street Address:	3800 Harvard Avenue
City:	Cleveland
State/Country:	OHIO
Postal Code:	44105

Name:	PARK-OHIO INDUSTRIES, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	

Postal Code:	44124
--------------	-------

Name:	PARK-OHIO PRODUCTS, INC.
Street Address:	7000 Denison Avenue
City:	Cleveland
State/Country:	OHIO
Postal Code:	44102

Name:	PHARMACEUTICAL LOGISTICS, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	PHARMACY WHOLESALE LOGISTICS, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	P-O REALTY LLC
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	PRECISION MACHINING CONNECTION LLC
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	RB&W MANUFACTURING LLC
Street Address:	10080 Wellman Rd.
City:	Streetsboro
State/Country:	OHIO
Postal Code:	44241

Name:	RED BIRD, INC.
Street Address:	6065 Parkland Blvd.

City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	SNOW DRAGON LLC
Street Address:	29100 Lakeland Blvd.
City:	Wickliffe
State/Country:	OHIO
Postal Code:	44092

Name:	SOUTHWEST STEEL PROCESSING LLC
Street Address:	4900 Lighthouse Drive
City:	Newport,
State/Country:	ARKANSAS
Postal Code:	72112

Name:	ST HOLDING CORP.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	STMX, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	SUMMERSPACE, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	SUPPLY TECHNOLOGIES LLC
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	SUPPLY TECHNOLOGIES (NY), INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	THE AJAX MANUFACTURING COMPANY
Street Address:	29100 Lakeland Blvd.
City:	Wickliffe
State/Country:	OHIO
Postal Code:	44092

Name:	THE CLANCY BING COMPANY
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	TOCCO, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	WB&R ACQUISITION COMPANY, INC.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	RB&W LTD.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

Name:	TW MANUFACTURING CO.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	

Postal Code: 44124

Name:	POVI L.L.C.
Street Address:	6065 Parkland Blvd.
City:	Cleveland
State/Country:	OHIO
Postal Code:	44124

PROPERTY NUMBERS Total: 136

Property Type	Number
Patent Number:	D359406
Patent Number:	D457054
Patent Number:	D454057
Patent Number:	D448659
Patent Number:	D437211
Patent Number:	D440865
Patent Number:	D448660
Patent Number:	D454484
Patent Number:	4184798
Patent Number:	4191363
Patent Number:	4195213
Patent Number:	4251704
Patent Number:	4251705
Patent Number:	4251707
Patent Number:	4258241
Patent Number:	4266109
Patent Number:	4307278
Patent Number:	4317978
Patent Number:	4336924
Patent Number:	4370703
Patent Number:	4385348
Patent Number:	4401485
Patent Number:	4401486
Patent Number:	4418259
Patent Number:	4420667
Patent Number:	4433226

Patent Number:	4438310
Patent Number:	4468549
Patent Number:	4475839
Patent Number:	4482793
Patent Number:	4482879
Patent Number:	4501942
Patent Number:	4511956
Patent Number:	4531036
Patent Number:	4531987
Patent Number:	4535211
Patent Number:	4538041
Patent Number:	4577081
Patent Number:	4604510
Patent Number:	4619717
Patent Number:	4625090
Patent Number:	4628167
Patent Number:	4637844
Patent Number:	4675057
Patent Number:	4675488
Patent Number:	4686815
Patent Number:	4690574
Patent Number:	4694134
Patent Number:	4702768
Patent Number:	4710126
Patent Number:	4715907
Patent Number:	4721457
Patent Number:	4744836
Patent Number:	4745251
Patent Number:	4749834
Patent Number:	4751360
Patent Number:	4754114
Patent Number:	4757170
Patent Number:	4761530
Patent Number:	4785147
Patent Number:	4785529



	4811356
Patent Number:	4855556
Patent Number:	4872907
Patent Number:	4878683
Patent Number:	4891259
Patent Number:	4894501
Patent Number:	4897518
Patent Number:	5009395
Patent Number:	5133402
Patent Number:	5156683
Patent Number:	5211744
Patent Number:	5403994
Patent Number:	5597279
Patent Number:	5680693
Patent Number:	5707462
Patent Number:	5710411
Patent Number:	5739506
Patent Number:	5751749
Patent Number:	5799720
Patent Number:	5853454
Patent Number:	6021053
Patent Number:	6107613
Patent Number:	6220804
Patent Number:	6238787
Patent Number:	6279646
Patent Number:	6365884
Patent Number:	6399929
Patent Number:	6409444
Patent Number:	6434182
Patent Number:	6439883
Patent Number:	6572368
Patent Number:	6696675
Patent Number:	6700105
Patent Number:	6712875
Patent Number:	6815650

	6827125
Patent Number:	6868896
Patent Number:	6904955
Patent Number:	6911633
Patent Number:	6965098
Patent Number:	6981541
Patent Number:	7041946
Patent Number:	7110430
Patent Number:	7113535
Patent Number:	7137436
Patent Number:	7424236
Patent Number:	7466740
Patent Number:	7503376
Patent Number:	7507087
Patent Number:	7606286
Patent Number:	7637307
Application Number:	11418580
Application Number:	11439852
Application Number:	11451960
Application Number:	12258484
Application Number:	11555827
Application Number:	12015207
Application Number:	11359032
Application Number:	11603597
Application Number:	11142200
Application Number:	11599771
Application Number:	11054295
Application Number:	10266791
Application Number:	11689067
Application Number:	11199187
Application Number:	11516837
Application Number:	11516950
Application Number:	11555789
Application Number:	12187650
Application Number:	12215165

	12484422
Application Number:	12572828
PCT Number:	US0879465
PCT Number:	US0969202
PCT Number:	US0628308

**CORRESPONDENCE DATA**

Fax Number: (216)579-0212  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: (216) 586-1402  
Email: skoston@jonesday.com  
Correspondent Name: Jones Day  
Address Line 1: North Point, 901 Lakeside Avenue  
Address Line 4: Cleveland, OHIO 44114

ATTORNEY DOCKET NUMBER:	522453-200013
-------------------------	---------------

NAME OF SUBMITTER:	David G. Roberts
--------------------	------------------

Total Attachments: 12  
source=ChasePatentRelease#page1.tif  
source=ChasePatentRelease#page2.tif  
source=ChasePatentRelease#page3.tif  
source=ChasePatentRelease#page4.tif  
source=ChasePatentRelease#page5.tif  
source=ChasePatentRelease#page6.tif  
source=ChasePatentRelease#page7.tif  
source=ChasePatentRelease#page8.tif  
source=ChasePatentRelease#page9.tif  
source=ChasePatentRelease#page10.tif  
source=ChasePatentRelease#page11.tif  
source=ChasePatentRelease#page12.tif

**RELEASE OF ASSIGNMENT FOR SECURITY OF PATENTS**

THIS RELEASE is made as of this 1<sup>th</sup> day of April, 2011, by JPMORGAN CHASE BANK, N.A., as Administrative Agent ("Agent"), in favor of AJAX TOCCO MAGNETHERMIC CORPORATION, an Ohio corporation, ATBD, INC., an Ohio corporation, BLUE FALCON TRAVEL, INC., an Alabama corporation, COLUMBIA NUT & BOLT LLC, an Ohio limited liability company, CONTROL TRANSFORMER, INC., an Ohio corporation, FECO, INC., as Illinois corporation, FORGING PARTS & MACHINING COMPANY, an Ohio corporation, GATEWAY INDUSTRIAL SUPPLY LLC, an Ohio limited liability company, GENERAL ALUMINUM MFG. COMPANY, an Ohio corporation, ILS TECHNOLOGY LLC, an Ohio limited liability company, INDUCTION MANAGEMENT SERVICES, LLC, a Michigan limited liability company, INTEGRATED HOLDING COMPANY, an Ohio corporation, INTEGRATED LOGISTICS HOLDING COMPANY, an Ohio corporation, INTEGRATED LOGISTICS SOLUTIONS, INC., an Ohio corporation, LALLEGRO, INC., a Delaware corporation, LEWIS & PARK SCREW & BOLT COMPANY, an Ohio corporation, PARK-OHIO FORGED & MACHINED PRODUCTS LLC, an Ohio limited liability company, PARK-OHIO INDUSTRIES, INC., an Ohio corporation, PARK-OHIO PRODUCTS, INC., an Ohio corporation, PHARMACEUTICAL LOGISTICS, INC., an Ohio corporation, PHARMACY WHOLESALE LOGISTICS, INC., an Ohio corporation, P-O REALTY LLC, an Ohio limited liability company, PRECISION MACHINING CONNECTION LLC, an Ohio limited liability company, RB&W MANUFACTURING LLC, an Ohio limited liability company, RED BIRD, INC., an Ohio corporation, SNOW DRAGON LLC, an Ohio limited liability company, SOUTHWEST STEEL PROCESSING LLC, an Ohio limited liability company, ST HOLDING CORP., an Ohio corporation, STMX, INC., an Ohio corporation,

SUMMERSPACE, INC., an Ohio corporation, SUPPLY TECHNOLOGIES LLC, an Ohio limited liability company, SUPPLY TECHNOLOGIES (NY), INC., a New York corporation, THE AJAX MANUFACTURING COMPANY, an Ohio corporation, THE CLANCY BING COMPANY, a Pennsylvania corporation, TOCCO, INC., an Alabama corporation, WB&R ACQUISITION COMPANY, INC., a Pennsylvania corporation, POVI L.L.C., an Ohio limited liability company, RB&W LTD., an Ohio limited liability company and TW MANUFACTURING CO., an Ohio corporation (collectively, "Companies").

FOR GOOD AND VALUABLE CONSIDERATION, the receipt and adequacy of which are hereby acknowledged, Agent hereby unconditionally and expressly releases, terminates, and extinguishes any and all of its right, title and interest in and to any and all liens and security interests it may have upon the patents listed on Schedule A attached hereto and made a part hereof, which liens and security interests were established under and pursuant to that certain Amended and Restated Security Agreement dated as of March 8, 2010, made by Companies in favor of Agent, which was recorded with the United States Patent and Trademark Office at Reel 024079/Frame 0136.

Agent consents and agrees to execute and deliver, at the request and cost of Companies, such further instruments, documents and release forms as Companies may reasonably request to more effectively, release, terminate and extinguish any such liens and security interests upon such patents.

This Release shall be binding upon Agent's legal representatives, assigns and successors.

JPMORGAN CHASE BANK, N.A., as Administrative Agent

By:  \_\_\_\_\_

Name: David Waugh

Title: Senior Vice President

**SCHEDULE A**

**PATENTS**

See the attached.

PATENTS

<u>Name of Grantor</u>	<u>Patent Description</u>	<u>Patent Number</u>	<u>Issue Date</u>
Ajax Tocco Magnethermic Corporation	Casting furnace	6981541	1/3/06
Ajax Tocco Magnethermic Corporation	Casting furnace	6827125	12/7/04
Ajax Tocco Magnethermic Corporation	Adjustable feed chute and associated method of feeding and melting	7637307	12/29/09
Ajax Tocco Magnethermic Corporation	Apparatus for inductively hardening the interior surface of objects	4628167	12/9/86
Ajax Tocco Magnethermic Corporation	Apparatus for overheating edges of skelp for the production of compression welded pipe	4694134	9/15/87
Ajax Tocco Magnethermic Corporation	Apparatus for the continuous induction heating of metallic strip	4751360	6/14/88
Ajax Tocco Magnethermic Corporation	Coil position adjustment system in induction heating assembly for metal strip	5739506	4/14/98
Ajax Tocco Magnethermic Corporation	Composite insulating clamp assembly for induction furnace	6434182	8/13/02
Ajax Tocco Magnethermic Corporation	Control circuit for switching power to an induction furnace	4811356	3/7/89
Ajax Tocco Magnethermic Corporation	Coreless furnace coil clamp	7606286	10/20/09
Ajax Tocco Magnethermic Corporation	Electric induction heat treating furnace	4761530	8/2/88
Ajax Tocco Magnethermic Corporation	ELECTRIC TREATMENT METHOD FOR IMPREGNATING, COMPACTING AND ELECTRICALLY INSULATING BODIES	10345265 (GERMANY)	7/13/2006
Ajax Tocco Magnethermic Corporation	Energization cycle counter for induction heating tool	6815650	11/9/04
Ajax Tocco Magnethermic Corporation	Energization cycle counter for induction heating tool	6965098	11/15/05
Ajax Tocco Magnethermic Corporation	Energization cycle counter for induction heating tool	7041946	5/9/06
Ajax Tocco Magnethermic Corporation	Induction coil having internal and external faradic rings	7466740	12/16/08
Ajax Tocco Magnethermic Corporation	Induction furnace for melting granular materials	7113535	9/26/06
Ajax Tocco Magnethermic Corporation	Induction furnace for melting semi-conductor materials	7110430	9/19/06
Ajax Tocco Magnethermic Corporation	Induction heater	4754114	6/28/88



<u>Name of Grantor</u>	<u>Patent Description</u>	<u>Patent Number</u>	<u>Issue Date</u>
Ajax Tocco Magnethermic Corporation	Induction heater comprising a coil/capacitor bank combination including a translatable coil assembly for movement on and off a continuous strip	6399929	6/4/02
Ajax Tocco Magnethermic Corporation	Induction heating of side or dam blocks in a continuous caster	6279646	8/28/01
Ajax Tocco Magnethermic Corporation	Induction heating system and method for internal combustion engine	6700105	3/2/04
Ajax Tocco Magnethermic Corporation	Induction heating system for internal combustion engine	6696675	2/24/04
Ajax Tocco Magnethermic Corporation	Inductor for inductively heating crank shafts	5751749	9/19/95
Ajax Tocco Magnethermic Corporation	Mass flow gravity feed apparatus for charging metal-melting furnaces with dross level compensator and method for charging metal-melting furnaces therewith	5853454	12/29/98
Ajax Tocco Magnethermic Corporation	Mass flow gravity feed method for charging metal-melting furnaces and apparatus therefor	5707462	4/18/95
Ajax Tocco Magnethermic Corporation	Metal chip furnace charge apparatus and method	4872907	10/10/89
Ajax Tocco Magnethermic Corporation	Method and apparatus for altering pouring from common hearth in plasma furnace	6904955	6/14/05
Ajax Tocco Magnethermic Corporation	Method and apparatus for cleaning and drying metal chips	4721457	1/26/88
Ajax Tocco Magnethermic Corporation	Method and apparatus for cooling a furnace	6572368	6/3/03
Ajax Tocco Magnethermic Corporation	Method and apparatus for drying metal chips	4710126	12/1/87
Ajax Tocco Magnethermic Corporation	Method and apparatus for hardening gears and similar workpieces	4855556	8/8/89
Ajax Tocco Magnethermic Corporation	Method and apparatus for heat treating camshafts	4604510	8/5/86
Ajax Tocco Magnethermic Corporation	Method and apparatus for induction heating gears and similar workpieces	4757170	7/12/88
Ajax Tocco Magnethermic Corporation	Method and apparatus for induction heating of gear teeth	4894501	1/16/90
Ajax Tocco Magnethermic Corporation	Method and apparatus for melting titanium using a combination of plasma torches and direct arc	7503376	3/17/09

<u>Name of Grantor</u>	<u>Patent Description</u>	<u>Patent Number</u>	<u>Issue Date</u>
	electrodes		
Ajax Tocco Magnethermic Corporation	Method and apparatus for melting titanium using a combination of plasma torches and direct arc electrodes	7137436	11/21/06
Ajax Tocco Magnethermic Corporation	Method and apparatus for melting titanium using a combination of plasma torches and direct arc electrodes	6868896	3/22/05
Ajax Tocco Magnethermic Corporation	Method and apparatus for optimized mixing in a common hearth in plasma furnace	6712875	3/30/04
Ajax Tocco Magnethermic Corporation	Method and apparatus for switching circuit system including a saturable core device with multiple advantages	6021053	2/1/00
Ajax Tocco Magnethermic Corporation	METHOD AND APPARATUS TO PROVIDE CONTINUOUS MOVEMENT THROUGH A FURNACE	7,507,087	03/24/09
Ajax Tocco Magnethermic Corporation	METHOD AND MEANS FOR IMPROVING MOLTEN METAL FURNACE CHARGING EFFICIENCY	2,079,711 (CANADA)	03/21/00
Ajax Tocco Magnethermic Corporation	Method for hardening gears by induction heating	4675488	6/23/87
Ajax Tocco Magnethermic Corporation	Method for heat treating ferrous parts	4637844	1/20/87
Ajax Tocco Magnethermic Corporation	Method for heat treating using eddy current temperature determination	4675057	6/23/87
Ajax Tocco Magnethermic Corporation	Method for selectively heating a workpiece subjected to low temperature thermomechanical processing	4744836	5/17/88
Ajax Tocco Magnethermic Corporation	Method of making an inductor	5680693	10/28/97
Ajax Tocco Magnethermic Corporation	Method of monitoring induction heating cycle	4897518	1/30/90
Ajax Tocco Magnethermic Corporation	Nozzle assembly for continuous caster	5799720	9/1/98
Ajax Tocco Magnethermic Corporation	Process and apparatus for introducing metal chips into a molten metal bath thereof	4702768	10/27/87
Ajax Tocco Magnethermic Corporation	Segmented compressed induction heating coil assembly	6365884	4/2/02

<u>Name of Grantor</u>	<u>Patent Description</u>	<u>Patent Number</u>	<u>Issue Date</u>
Ajax Tocco Magnethermic Corporation	Selectively adjustable transverse flux heating apparatus	5403994	4/4/95
Ajax Tocco Magnethermic Corporation	SELECTIVELY SIZABLE CHANNEL COIL	6,107,613	8/22/2000
Ajax Tocco Magnethermic Corporation	SUSPENDED INDUCTION COIL AND METHOD FOR REPLACEMENT OF TURNS COMPRISING SAME	6,911,633	6/28/2005
Ajax Tocco Magnethermic Corporation	Threading and scale removal device	6439883	8/27/02
Ajax Tocco Magnethermic Corporation	Apparatus for magnetic induction edge heaters with frequency modulation	5156683	10/20/92
Ajax Tocco Magnethermic Corporation	Induction heating in a hot reversing mill for isothermally rolling strip product	5710411	1/20/98
Ajax Tocco Magnethermic Corporation	Induction heating of endless belts in a continuous caster	5133402	7/28/92
Ajax Tocco Magnethermic Corporation	Method and apparatus for retaining a valve seat insert	4891259	12/13/88
Ajax Tocco Magnethermic Corporation	Method and means for improving molten metal furnace charging efficiency	5211744	5/18/93
ILS Technology LLC	Method for establishing directed circuits between parties with limited mutual trust	7424236	9/9/08
Park Ohio Industries, Inc.	Method and apparatus for inductively heating valve seat inserts	4438310	3/20/84
Park-Ohio Industries, Inc.	Apparatus and method for inductively hardening small bores	4531036	7/23/85
Park-Ohio Industries, Inc.	Apparatus for inductively heat treating workpiece bore walls	4625090	11/25/86
Park-Ohio Industries, Inc.	Apparatus for quenching heated workpieces	4336924	6/29/82
Park-Ohio Industries, Inc.	Apparatus for simultaneously heating a plurality of elongated workpieces	4482793	11/13/84
Park-Ohio Industries, Inc.	Control device for parallel induction heating coils	4307278	12/22/81
Park-Ohio Industries, Inc.	Feeding mechanism for induction heating coil	4195213	3/25/80
Park-Ohio Industries, Inc.	Floating valve seat inductor	4266109	5/5/81
Park-Ohio Industries, Inc.	Heating magnetic metal workpieces	4619717	10/28/86

<u>Name of Grantor</u>	<u>Patent Description</u>	<u>Patent Number</u>	<u>Issue Date</u>
Park-Ohio Industries, Inc.	Heating nonmagnetic metal workpieces	4577081	3/18/86
Park-Ohio Industries, Inc.	Induction heater arrangement for forging bar stock	4317978	3/2/82
Park-Ohio Industries, Inc.	Induction heater arrangement for forging bar stock	4468549	8/28/84
Park-Ohio Industries, Inc.	Induction heating method and apparatus for elongated workpieces	4420667	12/13/83
Park-Ohio Industries, Inc.	Inductor for axially and circumferentially heating a rotating workpiece	4251707	2/17/81
Park-Ohio Industries, Inc.	Inductor for hardening gear teeth	4251705	2/17/81
Park-Ohio Industries, Inc.	Inverter with improved power factor control	4385348	5/24/83
Park-Ohio Industries, Inc.	Method and apparatus for induction heating of an elongated workpiece	4433226	2/21/84
Park-Ohio Industries, Inc.	Method and apparatus for uniform induction heating of an elongated workpiece	4501942	2/26/85
Park-Ohio Industries, Inc.	Method and apparatus uniform induction heating of an elongated workpiece	4418259	11/29/83
Park-Ohio Industries, Inc.	Method for annealing work hardened portions of structural beams	4401486	8/30/83
Park-Ohio Industries, Inc.	Method for inductively heat treating workpiece bore walls	4531987	7/30/85
Park-Ohio Industries, Inc.	Method for inductively heating thin-walled elongated workpieces	4401485	8/30/83
Park-Ohio Industries, Inc.	Method of attaching a strip to a rubber molded part	6238787	5/29/01
Park-Ohio Industries, Inc.	Quenching device for inductively heated workpieces	4191363	3/4/80
Park-Ohio Industries, Inc.	Rotating induction heating	4538041	8/27/85

<u>Name of Grantor</u>	<u>Patent Description</u>	<u>Patent Number</u>	<u>Issue Date</u>
	apparatus		
Park-Ohio Industries, Inc.	Slot furnace for inductively heating axially spaced areas of a workpiece	4258241	3/24/81
Park-Ohio Industries, Inc.	Solid state frequency converter	4370703	1/25/83
Park-Ohio Industries, Inc.	Sucker rod fitting	4475839	10/9/84
Park-Ohio Industries, Inc.	Table with removable tray and/or insert	D359406	6/20/95
Park-Ohio Industries, Inc.	Transformer core cooling arrangement	4482879	11/13/84
Park-Ohio Industries, Inc.	Unit for induction heating and hardening gear teeth	4251704	2/17/81
Park-Ohio Industries, Inc.	Workpiece rotating and feeding apparatus	4184798	1/22/80
RB&W Corporation	Bearing and method for rotatably supporting a worn shaft	4690574	9/1/87
RB&W Corporation	Fastener mounting apparatus	4785529	11/22/88
RB&W Corporation	Method and apparatus for loading articles	4686815	8/18/87
RB&W Corporation	SELF-PIERCING CLINCH NUT	6,220,804	4/24/2001
RB&W Corporation	SELF-PIERCING CLINCH NUT	D 437,211	2/6/2001
RB&W Corporation	SELF-PIERCING CLINCH NUT	D 440,865	4/24/2001
RB&W Corporation	SELF-PIERCING CLINCH NUT	D 457, 054	5/14/2002
RB&W Corporation	Unitary hub assembly	4878683	11/7/89
RB&W Corporation	WHEEL NUT	5,597,279	1/28/1997
RB&W Corporation	SELF-PIERCING CLINCH NUT	6,409,444	6/25/02
R B&W Manufacturing LLC	SELF-PIERCING CLINCH NUT	D 448, 659	10/2/2001
R B&W Manufacturing LLC	SELF-PIERCING CLINCH NUT	D 448,660	10/2/2001
R B&W Manufacturing LLC	SELF-PIERCING CLINCH NUT	D 454,484	3/19/2002
R B&W Manufacturing LLC	SELF-PIERCING CLINCH NUT	D 454, 057	3/5/2002
Tocco, Inc.	Inductor and method of making same	4535211	8/13/85
Tocco, Inc.	Method and apparatus for selectively heating a workpiece subjected to low temperature thermomechanical	5009395	4/23/91

<u>Name of Grantor</u>	<u>Patent Description</u>	<u>Patent Number</u>	<u>Issue Date</u>
	processing		
Tocco, Inc.	Method and apparatus of hardening gears by induction heating	4749834	6/7/88
Tocco, Inc.	Method for heat treating ferrous parts	4715907	12/29/87
Tocco, Inc.	Power inverter using separate starting inverter	4511956	4/16/85
Tocco, Inc.	System for hardening gears by induction heating	4785147	11/15/88
Tocco, Inc.	Valve seat inductor	4745251	5/17/88

PATENT APPLICATIONS

<u>Name of Grantor</u>	<u>Patent Application</u>	<u>Application Filing Date</u>	<u>Application Serial Number</u>
Ajax Tocco Magnethermic Corporation	APPARATUS AND METHOD FOR HARDENING BEARING SURFACES OF A CRANKSHAFT	11/2/2006	11/555,789
Ajax Tocco Magnethermic Corporation	DIRECT CASTING UTILIZING STACK FILTRATION	07/21/06	PCT/US2006/028308 (WIPO)
Ajax Tocco Magnethermic Corporation	FURNACE ALIGNMENT SYSTEM	05/24/06	11/439,852
Ajax Tocco Magnethermic Corporation	GUIDANCE SYSTEM FOR PUSHER PLATE FOR USE IN PUSHER FURNACES	05/04/06	11/418,580
Ajax Tocco Magnethermic Corporation	HTS SUPERCONDUCTOR WIRE FOR MAKING AN INDUCTOR COIL	8/7/2008	12/187,650
Ajax Tocco Magnethermic Corporation	IMPROVED UNDERCUT CRANKSHAFT HARDENING COIL	6/15/2009	12/484,422
Ajax Tocco Magnethermic Corporation	INDUCTION FURNACE FOR MELTING GRANULAR MATERIALS	09/07/06	11/516,837
Ajax Tocco Magnethermic Corporation	INDUCTION FURNACE FOR MELTING SEMI-CONDUCTOR MATERIALS	09/07/06	11/516,950
Ajax Tocco Magnethermic Corporation	INDUCTION FURNACE FOR THE CONTROLLABLE MELTING OF POWDER/GANULAR MATERIALS	06/25/08	12/215,165
Ajax Tocco Magnethermic Corporation	LOCALLY AUSTEMPERED	10/02/09	12/572,828

<u>Name of Grantor</u>	<u>Patent Application</u>	<u>Application Filing Date</u>	<u>Application Serial Number</u>
	DUCTILE IRON		
Ajax Tocco Magnethermic Corporation	METHOD AND APPARATUS FOR CONTROLLING FURNACE POSITION IN RESPONSE TO THERMAL EXPANSION	06/13/06	11/451,960
Ajax Tocco Magnethermic Corporation	METHOD AND APPARATUS FOR TRANSPORTING STEEL BILLETS	10/27/2008	12/258,484
Ajax Tocco Magnethermic Corporation	SEMI-LIQUID METAL PROCESSING AND A SENSING DEVICE AND METHOD OF USING SAME	10/10/2008	PCT/US2008/079465 (WIPO)
Ajax Tocco Magnethermic Corporation	SYSTEM AND METHOD FOR CRANKSHAFT HARDENING	11/2/2006	11/555,827
Ajax Tocco Magnethermic Corporation	SYSTEM AND METHOD FOR PRODUCING SHOT FROM MOLTEN MATERIAL	1/16/2008	12/015,207
Ajax Tocco Magnethermic Corporation	Direct casting utilizing stack filtration	2/21/06	11/359,032
ILS Technology LLC	Business-to-business remote network connectivity	11/22/06	11603597
ILS Technology LLC	Model for communication between manufacturing and enterprise levels	6/1/05	11142200
ILS Technology LLC	RFID with two tier connectivity, RFID in the PLC rack, secure RFID tags with RFID multiplexer system	11/15/06	11599771
ILS Technology LLC	Secure computer network arrangement using directed circuits	2/9/05	11054295
Park-Ohio Industries, Inc.	Low abrasive rubber composition and associated method of manufacturing the same	10/7/02	10266791
RB&W Corporation	Clinch Nut	3/21/2007	11/689,067
RB&W Corporation	Nut with Lug Flare	12/22/2009	PCT/US2009/069202 (WIPO)
Snow Dragon, LLC	HIGH CAPACITY SNOW MELTING APPARATUS AND METHOD	8/5/05	11/199,187