

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT
CONVEYING PARTY DATA	
Name	Execution Date
Metaldyne BSM, LLC	02/19/2010
RECEIVING PARTY DATA	
Name:	Bank of America, N.A., as Agent
Street Address:	200 Glastonbury Boulevard
City:	Glastonbury
State/Country:	CONNECTICUT
Postal Code:	06033
PROPERTY NUMBERS Total: 7	
Property Type	Number
Patent Number:	6682437
Patent Number:	5918573
Patent Number:	6170453
Patent Number:	7086366
Application Number:	12113592
Application Number:	11895002
Application Number:	11475330
CORRESPONDENCE DATA	
Fax Number:	(704)444-8847
	<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>
Phone:	704-343-2278
Email:	ksaltrick@mcguirewoods.com
Correspondent Name:	McGuireWoods LLP
Address Line 1:	201 North Tryon Street
Address Line 2:	Attention: Wade M. Kennedy
Address Line 4:	Charlotte, NORTH CAROLINA 28202

OP \$280.00 6682437

ATTORNEY DOCKET NUMBER:	2039261-0106 / KBSALTRICK
NAME OF SUBMITTER:	Wade M. Kennedy, McGuireWoods LLC
Total Attachments: 7 source=METALDYNE Patent Security Agreement#page1.tif source=METALDYNE Patent Security Agreement#page2.tif source=METALDYNE Patent Security Agreement#page3.tif source=METALDYNE Patent Security Agreement#page4.tif source=METALDYNE Patent Security Agreement#page5.tif source=METALDYNE Patent Security Agreement#page6.tif source=METALDYNE Patent Security Agreement#page7.tif	

PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Patent Security Agreement") dated as of February 19, 2010 is made by METALDYNE, LLC, METALDYNE SINTERFORGED PRODUCTS, LLC, METALDYNE POWERTRAIN COMPONENTS, INC., METALDYNE SINTERED RIDGWAY, LLC, METALDYNE BSM, LLC, METALDYNE M&A BLUFFTON, LLC, METALDYNE TUBULAR COMPONENTS, LLC, PUNCHCRAFT MACHINING AND TOOLING, LLC, and MD INVESTORS CORPORATION (individually, "Grantor," and collectively, "Grantors"), in favor of Bank of America, N.A., in its capacity as Agent (in such capacity, "Grantee") for the Secured Parties to the Loan Agreement (as defined below).

Reference is made to the Loan and Security Agreement (the "Loan Agreement") dated as of February 19, 2010, among Grantors, the lenders from time to time party thereto and Grantee, as Agent for the Secured Parties.

Pursuant to the Loan Agreement, Grantors have granted to Grantee, for the benefit of Secured Parties, a security interest in the Collateral, including all right, title and interest of Grantors in, to and under all patents, applications for patent, inventions and reissues, continuations, divisions and continuations-in-part in any of the foregoing owned by Grantors (the "Patents") (except for Excluded Assets), whether now owned or hereafter acquired.

Accordingly, each Grantor and Grantee hereby agree as follows:

SECTION 1. Defined Terms. Unless the context otherwise requires, all capitalized terms used-but not defined herein shall have the meanings set forth in the Loan Agreement.

SECTION 2. Incorporation of the Loan Agreement. The Loan Agreement and the terms and conditions thereof are hereby incorporated hereby in their entirety by this reference.

SECTION 3. Security Interest in Patents. As security for the payment and performance in full when due, of such Grantor's Obligations, each Grantor hereby grants to Grantee, its permitted successors and assigns, for the ratable benefit of the Secured Parties, a security interest in all of such Grantor's right, title and interest in, to and under the Patents (except for Excluded Assets), whether now owned or hereafter acquired, including, without limitation: (i) the patents and patent applications set forth on Schedule A attached hereto, and (ii) all income, royalties and payments accrued, due or payable now or thereafter, including, without limitation, all claims for damages by reason of past, present or future infringement thereof, with the right to sue for, and collect the same.

SECTION 4. Counterparts. This Patent Security Agreement may be executed in two or more counterparts, each of which shall constitute an original but all of which when taken together shall constitute but one contract. This Patent Security Agreement shall become effective as to any Grantor when a counterpart hereof executed on behalf of such Grantor shall have been delivered to Grantee and a counterpart hereof shall have been executed on behalf of

Grantee. Delivery of an executed signature page to this Patent Security Agreement by facsimile or other electronic transmission shall be effective as delivery of a manually executed counterpart hereof.

SECTION 5. Governing Law. This Patent Security Agreement shall be construed in accordance with and governed by the laws of the State of New York.

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IN WITNESS WHEREOF, each Grantor and Grantee have duly executed this Patent Security Agreement as of the day and year first above written.

GRANTORS:

METALDYNE, LLC, a Delaware limited liability company

METALDYNE SINTERFORGED PRODUCTS, LLC, a Delaware limited liability company

METALDYNE POWERTRAIN COMPONENTS, INC., a Delaware corporation

METALDYNE SINTERED RIDGWAY, LLC, a Delaware limited liability company

METALDYNE BSM, LLC, a Delaware limited liability company

METALDYNE M&A BLUFFTON, LLC, a Delaware limited liability company

METALDYNE TUBULAR COMPONENTS, LLC, a Delaware limited liability company

PUNCHCRAFT MACHINING AND TOOLING, LLC, a Delaware limited liability company


MD INVESTORS CORPORATION, a Delaware corporation

By: *Terry Iwasaki*

Name: Terry Iwasaki

Title: Vice President and Chief Financial Officer

BANK OF AMERICA, N.A., as Agent

By: 
Name: Matthew Bourgeois
Title: Senior Vice President

SCHEDULE A

PATENT AND PATENT APPLICATIONS

Title	Application No./ Filing Date	Patent No./ Issue Date	Owner
	61/198726		Metaldyne, LLC
	61/089507		Metaldyne, LLC
	12/231950		Metaldyne, LLC
Single mass dual mode crankshaft damper with tuned hub	12/082442 4/11/2008		Metaldyne, LLC
Differential assembly and method for manufacturing same	12/288230 10/17/2008		Metaldyne, LLC
Elastomeric seal sizer	12/156781 6/4/2008		Metaldyne, LLC
Support structure for differential	12/220028 7/21/2008		Metaldyne, LLC
Cavitation-deterrig energy-efficient fluid pump system and method of operation	12/113592 5/1/2008		Metaldyne BSM, LLC
Cylinder head	12/082732 4/14/2008		Metaldyne Tubular Components, LLC
Inverted pressure regulating valve for an engine oil pump	11/801608 5/10/2007		Metaldyne, LLC
Compact pump arrangement	11/809361 5/31/2007		Metaldyne, LLC
Over-center linkage for engaging a locking differential or other mechanism	11/731688 3/30/2007		Metaldyne, LLC
Pinion shaft and differential housing assembly	11/732183 4/3/2007	7479087 1/20/2009	Metaldyne, LLC
Pin retention and assembly system for locking differential	11/726743 3/22/2007		Metaldyne, LLC
Structure of differential housing	11/726685 3/22/2007	7479086 1/20/2009	Metaldyne, LLC
Dual wall exhaust manifold and method of making same	11/649095 1/3/2007		Metaldyne Tubular Components, LLC
Bearing cap with weight reduction features	11/520322 9/13/2006		Metaldyne, LLC
Torsional vibration damper	11/412520 4/27/2006		Metaldyne, LLC
Process of manufacturing vehicle manifolds	08/606127 2/23/1996	5743011 4/28/1998	Metaldyne Tubular Components, LLC
Active torsional vibration damper	08/660343 6/4/1996	5678460 10/21/1997	Metaldyne, LLC

Title	Application No./ Filing Date	Patent No./ Issue Date	Owner
Gasket for exhaust system joint	08/276297 7/18/1994	5524906 6/11/1996	Metaldyne Tubular Components, LLC
Hollow balance shaft; for an automobile engine	08/230642 4/21/1994	5483932 1/16/1996	Metaldyne, LLC
Static unbalance-type balance shafts with axis alignment preservation	10/047487 1/14/2002	6682437 1/27/2004	Metaldyne BSM, LLC
Carburization of vehicle manifold flanges to prevent corrosion	10/024929 12/19/2001	6581377 6/24/2003	Metaldyne Tubular Components, LLC
High value static unbalance-type balance shafts	09/866240 5/25/2001	6626063 9/30/2003	Metaldyne, LLC
High value static unbalance-type balance shafts	09/227952 1/11/1999	6237442 5/29/2001	Metaldyne, LLC
Balance shafts having minimal mass	08/677085 7/9/1996	5857388 1/12/1999	Metaldyne, LLC
Fluid jet with noise reducing sleeve	12/006363 1/2/2008		Metaldyne, LLC
Fluid jet for providing fluid under pressure to a desired location	10/914297 8/9/2004	7152623 12/26/2006	Metaldyne, LLC
Fluid jet for providing fluid under pressure to a desired location	11/634489 12/6/2006		Metaldyne, LLC
Flow redirection member and method manufacture	10/970678 10/20/2004	7174919 2/13/2007	Metaldyne Tubular Components, LLC
Housing and method of manufacturing said housing	10/809200 3/25/2004	7024751 4/11/2006	Metaldyne, LLC
Torsional vibration damper	07/979507 11/20/1992	5370580 12/6/1994	Metaldyne, LLC
Torsional vibration damper	08/662413 6/10/1996	5862897 1/26/1999	Metaldyne, LLC
Damper and method for tuning a damper utilizing a surface contact reducing resilient member	10/860871 6/4/2004	7410035 8/12/2008	Metaldyne, LLC
Energy efficient fluid pump	09/069807 4/30/1998	5918573 7/6/1999	Metaldyne BSM, LLC
Forged in bushing article and method of making	09/947981 9/6/2001	6579492 66/17/2003	Metaldyne, LLC
Oil/air scavenging system for balance shaft housings	09/343396 6/30/1999	6170453 1/9/2001	Metaldyne BSM, LLC
Stamped exhausts manifold for vehicle engines	10/147791 5/17/2002	6651425 11/25/2003	Metaldyne Tubular Components, LLC
Apparatus for hydroforming a vehicle manifold	08/408742 3/22/1995	5485737 1/23/1996	Metaldyne Tubular Components, LLC
Process for hydroforming a vehicle manifold	08/207570 3/7/1994	5471857 12/5/1995	Metaldyne Tubular Components, LLC

Title	Application No./ Filing Date	Patent No./ Issue Date	Owner
Method of Manufacturing connecting rods	10/744275 12/23/2003	6915568 7/12/2005	Metaldyne, LLC
Energy efficient fluid pump	09/489525 1/21/2000	7086366 8/8/2006	Metaldyne BSM, LLC
Device for isolating torque fluctuations	10/475250 4/8/2002	6955252 10/18/2005	Metaldyne, LLC
Flow deflector member for exhaust manifold	09/414396 10/7/1999	6324838 12/4/2001	Metaldyne Tubular Components, LLC
Method of forming a vehicle transmission clutch housing	08/933389 9/19/1997	5987728 11/23/1999	Metaldyne, LLC
Dual mode damper; crankshaft vibration damper	07/805381 12/10/1991	5231893 8/3/1993	Metaldyne, LLC
Device for controlling parasitic losses in a fluid pump	11/110476 4/20/2005		Metaldyne, LLC
Debris flush system for balance shaft bearings	11/895002 8/22/2007		Metaldyne BSM, LLC
Exhaust manifold having improved nvh characteristics	12/1517790 6/13/2008		Metaldyne Tubular Components, LLC
Dual-layer to flange welded joint	12/319987 1/14/2009		Metaldyne Tubular Components, LLC
	61/188917		Metaldyne Tubular Components, LLC
	61/192759		Metaldyne Tubular Components, LLC
	61/192758		Metaldyne Tubular Components, LLC
	61/203088		Metaldyne Tubular Components, LLC
	61/206559		Metaldyne Tubular Components, LLC
	12/475992		Metaldyne, LLC
	61/150225		Metaldyne, LLC
Gear-driven balance shaft apparatus with backlash control	11/475330 6/27/2006		Metaldyne BSM, LLC