

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4357069

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST IN PATENTS RECORDED AT R/F 034024/0359	
CONVEYING PARTY DATA		
	Name	Execution Date
	GOLDMAN SACHS BANK USA, AS AGENT	04/06/2017
RECEIVING PARTY DATA		
Name:	METALDYNE BSM, LLC	
Street Address:	47659 HALYARD DRIVE	
City:	PLYMOUTH	
State/Country:	MICHIGAN	
Postal Code:	48170	
PROPERTY NUMBERS Total: 7		
Property Type	Number	
Patent Number:	5918573	
Patent Number:	6170453	
Patent Number:	6682437	
Patent Number:	7086366	
Patent Number:	7748288	
Patent Number:	8522925	
Patent Number:	8613268	
CORRESPONDENCE DATA		
Fax Number:	(212)751-4864	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	212-906-1216	
Email:	angela.amaru@lw.com	
Correspondent Name:	LATHAM & WATKINS LLP C/O ANGELA M. AMARU	
Address Line 1:	885 THIRD AVENUE	
Address Line 2:	SUITE 1000	
Address Line 4:	NEW YORK, NEW YORK 10022	
ATTORNEY DOCKET NUMBER:	049646-0239	
NAME OF SUBMITTER:	ANGELA M. AMARU	
SIGNATURE:	/S/ Angela M. Amaru	

DATE SIGNED:	04/06/2017
--------------	------------

Total Attachments: 15

source=MPG - GSRelease of Security Interest In Patents 83886852.2#page1.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page2.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page3.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page4.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page5.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page6.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page7.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page8.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page9.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page10.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page11.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page12.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page13.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page14.tif
source=MPG - GSRelease of Security Interest In Patents 83886852.2#page15.tif

RELEASE OF SECURITY INTEREST IN PATENTS

THIS RELEASE OF SECURITY INTEREST IN PATENTS (this “Release”) is made as of April 6, 2017 and granted by **GOLDMAN SACHS BANK USA** in its capacity as administrative agent and collateral agent for the Secured Parties (together with successors and assigns in such capacity, the “Agent”) in favor of **CLOYES GEAR AND PRODUCTS, INC.**, an Ohio corporation, (“**Cloyes**”), **KYKLOS BEARING INTERNATIONAL, LLC**, a Delaware limited liability company (“**Kyklos**”), **THE MESH COMPANY, LLC**, an Arkansas limited liability company (“**Mesh**”), **METALDYNE BSM, LLC**, a Delaware limited liability company (“**BSM**”), **GREDE II LLC**, a Delaware limited liability company (“**Grede**”) and **METALDYNE, LLC**, a Delaware limited liability company, (“**Metaldyne**” and together with Cloyes and Kyklos, Mesh, BSM and Grede each a “Grantor” and collectively the “Grantors”). Capitalized terms used herein have the meanings attributed thereto in the Credit Agreement unless otherwise defined herein.

WHEREAS, pursuant to that certain credit agreement among MPG Holdco I (the “Borrower”), Metaldyne Performance Group Inc., certain Subsidiaries party thereto from time to time, the Lenders party thereto and the Agent dated as October 20, 2014 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”) pursuant to which the Grantors executed and delivered to the Agent that certain patent security agreement, dated as of October 20, 2014 between the Grantors and the Agent, (the “Patent Security Agreement”), which was recorded with the United States Patent and Trademark Office (the “USPTO”) on October 20, 2014 at Reel 034024 Frame 0217 for Cloyes, at Reel 034024 Frame 0287 for Kyklos, at Reel 034024 Frame 0337 for Mesh, at Reel 034024 Frame 0440 for Metaldyne, at Reel 034024 Frame 0359 for BSM and at Reel 034024 Frame 0245 for Grede, the Grantors pledged to the Agent a continuing security interest in all of its right, title and interest in and to the Patent Collateral (as defined in the Patent Security Agreement); and

WHEREAS, the Borrower has repaid the Credit Agreement, as described in the Payoff Letter dated April 6, 2017, executed by the Agent and acknowledged by the Borrower (the “Payoff Letter”), and has satisfied all Obligations thereunder, and the Agent has agreed to release its security interest in and lien on the Patent Collateral.

NOW, THEREFORE, in acknowledgement that the Credit Agreement has been repaid in its entirety and the Grantors have satisfied all Obligations thereunder, the Agent hereby terminates the Patent Security Agreement and hereby terminates, cancels, re-pledges, reassigns and releases any and all security interests it has in and to the Patent Collateral, including, without limitation, the Patent Collateral set forth on Schedule I hereto, in each case without warranty or recourse.

If and to the extent the Agent has acquired any right, title or interest in, to or under any of the Patent Collateral, the Agent hereby assigns, transfers, conveys and delivers such right, title or interest to the Grantors.

The Agent shall take all further actions, and provide to the Grantors and their successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by the Grantors to more fully and effectively effectuate the purposes of this Release. Each Grantor authorizes and requests that the Commissioner for Patents of the United States Patent and Trademark Office and any other applicable government officer record this Release.


This Release shall be construed in accordance with and governed by the law of the State of New York.

(Signature page follows)

IN WITNESS WHEREOF, the Agent has caused this Release of Security Interest in Patents to be executed and delivered by its duly authorized officer as of the date first set forth above.

GOLDMAN SACHS BANK USA, as Agent

By:



Name:

Title:

Gabriel Jacobson
Authorized Signatory

SCHEDULE I
TO
RELEASE OF SECURITY INTEREST IN PATENTS

PATENTS

Security Interest recorded at reel/frame 034024/0217:

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Cloyes Gear and Products, Inc.	Adjustable Camshaft Sprocket	October 29, 2012 / (March 7, 2013)	Pending Published	13/663067 / (20130055836)
Cloyes Gear and Products, Inc.	Captive Fastener Apparatus for Chain Guide or Tensioner Arm	March 8, 2013 / (July 25, 2013)	Pending Published	13/790931 / (20130190115)
Cloyes Gear and Products, Inc.	Inverted Tooth Chain and Sprocket Drive System with Reduced Meshing Impact	March 17, 2014 / (July 17, 2014)	Pending Published	14/217025 / (20140200106)
Cloyes Gear and Products, Inc.	Chain Tensioner	December 9, 2013 / (June 12, 2014)	Pending Published	14/101157 / (20140162819)
Cloyes Gear and Products, Inc.	Display Device and Driving Method Thereof	October 29, 2012 / (January 9, 2014)	Pending published	13/663047 / (20140009456)
Cloyes Gear and Products	Camshaft End-Play Device	October 26, 1995 / July 8, 1997	Granted	08/548872 / 5645024
Cloyes Gear and Products, Inc.	Chain Tensioner Apparatus and Method	April 30, 1996 / January 27, 1998	Granted	08/640333 / 5711732
Cloyes Gear and Products, Inc.	Adjustable Camshaft Timing Device	April 1, 1997 / April 14, 1998	Granted	08/831390 / 5738055
Cloyes Gear and Products	Automatic Tensioner with One-Pin Locking Mechanism	December 7, 1995 / July 21, 1998	Granted	08/568657 / 5782625
Cloyes Gear and Products,	Chain Tensioner with	February 26, 1997 / August 25, 1998	Granted	08/806844 /

Grantor	Title	Filing Date/Issued Date	Status	Application/ Registration No.
Inc.	Damping Feature			5797818
Cloyes Gear and Products, Inc.	Roller Chain Timing Drive Having Reduced Noise	August 2, 1996 / December 15, 1998	Granted	08/691350 / 5848948
Cloyes Gear and Products, Inc.	Roller Chain Drive System Having Improved Noise Characteristics	January 23, 1997 / March 2, 1999	Granted	08/787675 / 5876295
Cloyes Gear and Products, Inc.	Roller Chain Drive System Having Improved Noise Characteristics	June 19, 1997 / July 13, 1999	Granted	08/879157 / 5921878
Cloyes Gear and Products, Inc.	Random Engagement Roller Chain Sprocket with Staged Meshing and Flank Relief to Provide Improved Noise Characteristics	December 17, 1997 / July 13, 1999	Granted	08/992306 / 5921879
Cloyes Gear and Products, Inc.	Random Engagement Roller Chain Sprocket Having Improved Noise Characteristics	July 25, 1997 / November 2, 1999	Granted	08/900661 / 5976045
Cloyes Gear and Products, Inc.	Roller Chain Drive System Having Improved Noise Characteristics	May 12, 1999 / November 30, 1999	Granted	09/310804 / 5993344
Cloyes Gear and Products, Inc.	Random Engagement Roller Chain Sprocket with Staged Meshing and Root Relief to Provide Improved Noise Characteristics	March 26, 1999 / December 7, 1999	Granted	09/277058 / 5997424
Cloyes Gear and Products, Inc.	Method for Chain Meshing Phasing on a V-Engine Camshaft Drive to Reduce Noise	August 14, 1998 / February 29, 2000	Granted	09/134125 / 6030306
Cloyes Gear and Products, Inc.	Random Engagement Roller Sprocket Having Improved Noise Characteristics	October 15, 1999 / July 18, 2000	Granted	09/419336 / 6090003

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Cloyes Gear and Products, Inc.	Random Engagement Roller Chain Sprocket with Cushion Rings and Root Relief for Improved Noise Characteristics	August 25, 1999 / January 30, 2001	Granted	09/383128 / 6179741
Cloyes Gear and Products, Inc.	Random Engagement Roller Chain Sprocket with Staged Meshing and Flank Relief to Provide Improved Noise Characteristics	May 27, 1999 / December 4, 2001	Granted	09/321246 / 6325734
Cloyes Gear and Products, Inc.	Chain Tensioner Assembly Having a Single-Fastener Mounting Arrangement	December 23, 1999 / March 12, 2002	Granted	09/471783 / 6354972
Cloyes Gear and Products, Inc.	Random Engagement Roller Chain Sprocket with Cushion Rings and Root Relief for Improved Noise Characteristics	December 1, 2000 / April 16, 2002	Granted	09/728698 / 6371875
Cloyes Gear and Products, Inc.	Adjustable Cam Sprocket	June 28, 2002 / March 18, 2003	Granted	10/186169 / 6532923
Cloyes Gear and Products, Inc.	Chain Tensioner for Use in a Confined Space	February 10, 2000 / June 3, 2003	Granted	09/502541 / 6572502
Cloyes Gear and Products, Inc.	Blade-Type Mechanical Chain Tensioner with External Strengthening Rib	October 16, 2001 / September 23, 2003	Granted	09/981044 / 6623391
Cloyes Gear and Products, Inc.	Snap-Fit Guide with Locking Connector Arrangement	November 16, 2001 / July 6, 2004	Granted	09/992470 / 6758777
Cloyes Gear and Products, Inc.	Roller Chain Sprocket with Added Chordal Pitch Reduction	December 4, 2001 / July 13, 2004	Granted	10/004544 / 6761657
Cloyes Gear and Products, Inc.	Cushion Ring Sprocket Assembly and Method	March 18, 2003 / June 28, 2005	Granted	10/391268 /

Grantor	Title	Filing Date/Issued Date	Status	Application/ Registration No.
Inc.				6910980
Cloyes Gear and Products, Inc.	Snap-Fit Chain Guide with Saw-Tooth Fixing Feature	January 23, 2003 / July 5, 2005	Granted	10/349679 / 6913552
Cloyes Gear and Products, Inc.	Integrated Drive Sprocket and Gear for Balance Shaft	April 22, 2003 / January 24, 2006	Granted	10/420380 / 6988479
Cloyes Gear and Products, Inc.	Roller Chain Sprocket with	April 16, 2002 / July 11, 2006	Granted	10/123940 / 7074147
Cloyes Gear and Products, Inc.	Cushioned Sprocket and Improved Inverted Tooth Chain for Use with Same	May 6, 2003 / August 22, 2006	Granted	10/430536 / 7094170
Cloyes Gear and Products, Inc.	Snap-Fit Chain Guide with Locking Connector Arrangement	June 4, 2004 / January 16, 2007	Granted	10/860873 / 7163479
Cloyes Gear and Products, Inc.	Cushion Ring Sprocket Assembly and Method	April 4, 2005 / June 19, 2007	Granted	11/098285 / 7232392
Cloyes Gear and Products, Inc.	Integrated Drive Sprocket and Gear for Balance Shaft	January 23, 2006 / August 7, 2007	Granted	11/337886 / 7252066
Cloyes Gear and Products, Inc.	Roller Chain Sprocket with Resilient Cushion Rings and Root Relief	July 6, 2006 / May 13, 2008	Granted	11/481678 / 7371200
Cloyes Gear and Products, Inc.	Random Engagement Roller Chain Sprocket and Timing Chain System Including Same	April 1, 2004 / August 26, 2008	Granted	10/815316 / 7416500
Cloyes Gear and Products, Inc.	Inverted Tooth Chain System with Inside Flank Engagement	September 16, 2005 / September 7, 2010	Granted	11/228186 / 7789783
Cloyes Gear and Products, Inc.	Adjustable Camshaft Sprocket Assembly and Tool for Same	June 8, 2007 / December 7, 2010	Granted	11/811187 / 7845320

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Cloyes Gear and Products, Inc.	Multiple-Cushion Ring Sprocket Assembly	September 29, 2006 / March 29, 2011	Granted	11/541209 / 7914408
Cloyes Gear and Products, Inc.	Inverted Tooth Chain System With Inside Flank Engagement	August 24, 2005 / August 30, 2011	Granted	11/210599 / 8007387
Cloyes Gear and Products, Inc.	Roller Chain Sprocket Having an Improved Tooth Form and Metal Cushion Rings	September 29, 2006 / December 27, 2011	Granted	11/541210 / 8083624
Cloyes Gear and Products, Inc.	Automotive Parts Kit Differentiation System	March 9, 2007 / January 31, 2012	Granted	11/716326 / 8106774
Cloyes Gear and Products, Inc.	Adjustable Camshaft Sprocket Assembly and Tool for Same	November 4, 2010 / October 30, 2012	Granted	12/939437 / 8297246
Cloyes Gear and Products, Inc.	Captive Fastener Apparatus for Chain Guide or Tensioner Arm	January 7, 2009 / March 12, 2013	Granted	12/349826 / 8393986
Cloyes Gear and Products, Inc.	Inverted Tooth Chain and Sprocket Drive System with Reduced Meshing Impact	June 14, 2010 / September 10, 2013	Granted	12/814963 / 8529389
Cloyes Gear and Products, Inc.	Blade Tensioner with Captured Spring	November 18, 2009 / December 31, 2013	Granted	12/621001 / 8617012
Cloyes Gear and Products, Inc.	Inverted Tooth Chain and Sprocket Drive System with Reduced Noise Characteristics	September 9, 2009 / January 14, 2014	Granted	12/556332 / 8628440
Cloyes Gear and Products, Inc.	Inverted Tooth Chain Sprocket with Frequency Modulated Meshing	May 9, 2008 / February 4, 2014	Granted	12/151944 / 8641565
Cloyes Gear and Products, Inc.	Investor Tooth Chain Sprocket with Frequency Modulated Meshing	August 29, 2011 / March 11, 2014	Granted	13/220567 / 8668609

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Cloyes Gear and Products, Inc.	Blade Tensioner with Pocket Pivot Feature	August 29, 2011 / March 18, 2014	Granted	13/220021 / 8672785
Cloyes Gear and Products, Inc.	Inverted Tooth Chain and Sprocket Drive System with Reduced Meshing Impact	March 9, 2011 / March 18, 2014	Granted	13/043932 / 8672786
Cloyes Gear and Products, Inc.	Inverted Tooth Chain Sprocket with Frequency Modulated Meshing Features	April 6, 2011 / April 29, 2014	Granted	13/081283 / 8708849
Cloyes Gear and Products, Inc.	Blade Tensioner with Spring Retaining Features	August 8, 2011 / May 6, 2014	Granted	13/205590 / 8715122

Security Interest recorded at reel/frame 034024/0245:

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Grede II LLC	Axle assembly	October 30, 2003 / February 7, 2006	Registered	10/696855 / 6994405

Security Interest recorded at reel/frame 034024/0287:

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Kyklos Bearing International, LLC	Wheel Bearing Assembly	November 6, 2008 / (September 3, 2009)	Pending	12/291144 / (20090220183)
Kyklos Bearing International, LLC	Sensor Wire Lead Strain Relief	March 27, 1997 / March 16, 1999	Granted	08/824986 / 5883511
Kyklos Bearing International, LLC	Integrally Retained Bearing Race With Improved Twisting Resistance	October 20, 1997 / August 22, 2000	Granted	08/954050 / 6105251
Kyklos Bearing	Wheel Bearing with Self-Aligning Wheel	August 31, 1998 / March 14, 2000	Granted	09/143812 /

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
International, LLC	Speed Sensor Ring			6036370
Kyklos Bearing International, LLC	Bearing Separator with Random Spacing	December 16, 1998 / January 9, 2001	Granted	09/212588 / 6170993
Kyklos Bearing International, LLC	Self-Retained Wheel Bearing Assembly	October 24, 2000 / November 26, 2002	Granted	09/695350 / 6485187
Kyklos Bearing International, LLC	Wheel Bearing With Separable Inner Race Processing Feature	October 24, 2000 / September 23, 2003	Granted	09/695733 / 6622377
Kyklos Bearing International, LLC	Method for Forming an Opening In A Wheel Spindle	November 15, 2000 / June 25, 2002	Granted	09/713681 / 6408669
Kyklos Bearing International, LLC	Performance Sensor Ring With Reduced Mass	March 6, 2001 / December 24, 2002	Granted	09/800161 / 6498475
Kyklos Bearing International, LLC	Vehicle Wheel Bearing	February 11, 2002 / October 26, 2004	Granted	10/073792 / 6808311
Kyklos Bearing International, LLC	Vehicle Wheel Bearing and Method for Controlling A Vehicle	March 4, 2002 / October 12, 2004	Granted	10/091396 / 6802208
Kyklos Bearing International, LLC	Vehicle Wheel Bearing and Wheel Speed Sensor Connector-Plug Bracket	March 20, 2002 / August 10, 2004	Granted	10/101762 / 6773164
Kyklos Bearing International, LLC	Self-Retained Wheel Bearing Assembly	April 5, 2002 / June 10, 2003	Granted	10/117643 / 6574865
Kyklos Bearing International, LLC	Vehicle Wheel Bearing, Wheel-Speed Sensor Mechanism Assembly, and Wheel Speed Sensor	April 29, 2002 / August 10, 2004	Granted	10/134292 / 6774622
Kyklos Bearing International, LLC	Method and Apparatus for Wheel Spindle and the Like With Improved LRO	May 8, 2002 / June 10, 2003	Granted	10/141382 / 6575535

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Kyklos Bearing International, LLC	Retaining A Brake Rotor In An Vehicle Corner Apparatus	August 29, 2002 / February 8, 2005	Granted	10/230622 / 6851759
Kyklos Bearing International, LLC	Separator Grease Retention and Feed System for Wheel Spindle Bearings	September 19, 2002 / October 5, 2004	Granted	10/247214 / 6799896
Kyklos Bearing International, LLC	Automotive Brake Corner Module	November 26, 2002 / April 26, 2005	Granted	10/304268 / 6883816
Kyklos Bearing International, LLC	Wheel Bearing Assembly Mount with Force Attenuation	November 10, 2005 / December 30, 2008	Granted	11/271606 / 7470067

Security Interest recorded at reel/frame 034024/0337

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
The Mesh Company, LLC	Short Pitch Tooth Chain	February 9, 1999 / February 13, 2001	Granted	09/247211 / 6186920
The Mesh Company, LLC	Short Pitch Tooth Chain	December 21, 2000 / September 11, 2001	Granted	09/742655 / 6287229
The Mesh Company, LLC	Short Pitch Tooth Chain	September 7, 2001 / September 23, 2003	Granted	09/949180 / 6623392

Security Interest recorded at reel/frame 034024/0440

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Metaldyne, LLC	HOLLOW BALANCE SHAFT	April 21, 1994 / January 16, 1996	Registered	08/230642 / 5483932
Metaldyne, LLC	ACTIVE TORSIONAL VIBRATION DAMPER	June 4, 1996 / October 21, 1997	Registered	08/660343 / 5678460
Metaldyne, LLC	BALANCE SHAFTS HAVING MINIMAL	July 9, 1996 / January 12, 1999	Registered	08/677085 /

	MASS			5857388
Metaldyne BSM, LLC	ENERGY EFFICIENT FLUID PUMP	September 19, 1997 / November 23, 1999	Registered	08/933389 / 5987728
Metaldyne, LLC	HIGH VALUE STATIC UNBALANCE-TYPE BALANCE SHAFTS	January 11, 1999 / May 29, 2001	Registered	09/227952 / 6237442
Metaldyne, LLC	FORGED BUSHING ARTICLE AND METHOD OF MAKING	September 6, 2001 / June 17, 2003	Registered	09/947981 / 6579492
Metaldyne, LLC	HIGH VALUE STATIC UNBALANCE-TYPE BALANCE SHAFTS	May 25, 2001 / September 30, 2003	Registered	09/866240 / 6626063
Metaldyne, LLC	METHOD OF MANUFACTURING CONNECTING RODS	December 23, 2003 / July 12, 2005	Registered	10/744275 / 6915568
Metaldyne, LLC	HOUSING AND METHOD OF MANUFACTURING SAID HOUSING	March 25, 2004 / April 11, 2006	Registered	10/809200 / 7024751
Metaldyne, LLC	FLUID JET FOR PROVIDING FLUID UNDER PRESSURE TO A DESIRED LOCATION	August 9, 2004 / December 26, 2006	Registered	10/914297 / 7152623
Metaldyne, LLC	DAMPER AND METHOD FOR TUNING A DAMPER UTILIZING A SURFACE CONTACT REDUCING RESILIENT MEMBER	June 4, 2004 / August 12, 2008	Registered	10/860871 / 7410035
Metaldyne, LLC	STRUCTURE OF DIFFERENTIAL HOUSING	March 22, 2007 / January 20, 2009	Registered	11/726685 / 7479086
Metaldyne, LLC	PINION SHAFT AND DIFFERENTIAL HOUSING ASSEMBLY	April 3, 2007 / January 20, 2009	Registered	11/732183 / 7479087
Metaldyne, LLC	FLUID JET WITH NOISE REDUCING SLEEVE	January 2, 2008 / May 4, 2010	Registered	12/006363 / 7708026
Metaldyne, LLC	BEARING CAP WITH WEIGHT REDUCTION FEATURES	September 13, 2006 / July 13, 2010	Registered	11/520322 / 7753592
Metaldyne, LLC	PIN RETENTION AND ASSEMBLY SYSTEM FOR LOCKING DIFFERENTIAL	March 22, 2007 / July 20, 2010	Registered	11/726743 / 7758462
Metaldyne,	FLUID JET FOR	December 6, 2006 /	Registered	11/634489 /

LLC	PROVIDING FLUID UNDER PRESSURE TO A DESIRED LOCATION	August 3, 2010		7766035
Metaldyne, LLC	OVER-CENTER LINKAGE FOR ENGAGING A LOCKING DIFFERENTIAL OR OTHER MECHANISM	March 30, 2007 / February 22, 2011	Registered	11/731688 / 7892133
Metaldyne, LLC	COMPACT PUMP ARRANGEMENT	May 31, 2007 / September 6, 2011	Registered	11/809361 / 8011899
Metaldyne, LLC	ELASTOMETRIC SEAL SIZER	June 4, 2008 / November 22, 2011	Registered	12/156781 / 8062012
Metaldyne, LLC	METHOD AND APPARATUS FOR HONING A WORKPIECE AND A WORKPIECE	August 17, 2009 / August 7, 2012	Registered	12/542489 / 8235771
Metaldyne, LLC	PISTON COOLING JET WITH TRACKING BALL ORIFICE	September 8, 2008 / March 19, 2013	Registered	12/231950 / 8397749
Metaldyne, LLC	SUPPORT STRUCTURE FOR DIFFERENTIAL	July 21, 2008 / April 30, 2013	Registered	12/220028 / 8430780
Metaldyne, LLC	INVERTED PRESSURE REGULATING VALVE FOR ENGINE OIL PUMP	May 10, 2007 / January 29, 2013	Registered	11/801608 / 8360746
Metaldyne, LLC	DIFFERENTIAL ASSEMBLY AND METHOD FOR MANUFACTURING SAME	October 17, 2008 / July 30, 2013	Registered	12/288230 / 8500594

Security Interest recorded at reel/frame 034024/0359

Grantor	Title	Filing Date/Issued Date	Status	Application/Registration No.
Metaldyne BSM, LLC	ENERGY EFFICIENT FLUID PUMP	April 30, 1998 / July 6, 1999	Registered	09/069807 / 5918573
Metaldyne BSM, LLC	OIL/AIR SCAVENGING SYSTEM FOR BALANCE SHAFT HOUSING	June 30, 1999 / January 9, 2001	Registered	09/3443396 / 6170453
Metaldyne	STATIC	January 14, 2002 /	Registered	10/047487 /

BSM, LLC	UNBALANCE-TYPE BALANCE SHAFTS WITH AXIS ALIGNMENT PRESERVATION	January 27, 2004		6682437
Metaldyne BSM, LLC	IMPROVED ENERGY EFFICIENT FLUID PUMP	January 21, 2000 / August 8, 2006	Registered	09/489525 / 7086366
Metaldyne BSM, LLC	GEAR-DRIVEN BALANCE SHAFT APPARATUS WITH BACLASH CONTROL	June 27, 2006 / July 6, 2010	Registered	11/475330 / 7748288
Metaldyne BSM, LLC	DEBRIS FLUSH SYSTEM FOR BALANCE SHAFT BEARINGS	August 22, 2007 / September 3, 2013	Registered	11/895002 / 8522925
Metaldyne BSM, LLC	METHOD AND APPARATUS FOR SECURING A BALANCER SHAFT MODULE	October 27, 2010 / December 24, 2013	Registered	12/913248 / 8613268

PATENT LICENSES

Name of Agreement	Parties Licensor/Licensee	Date of Agreement	Subject Matter
Amended and Restated Intellectual Property License and Service Agreement	Kyklos Bearing International LLC/BWI (Shanghai) Co., Ltd.	April 13, 2010 (as amended December 22, 2011)	License to use certain intellectual property to produce, market, and sell certain licensed products
Patent License Agreement	Cloyes Gear and Products, Inc./Schaeffler Group/INA	November 4, 2006	License to use scheduled patents to develop, manufacture, use, offer to sell and advertise asymmetrical tooth profiles used on the cam phaser sprocket that is then assembled into the cam phaser VCT that is sold to General Motors Corporation or its affiliates for engine application in the V6 version of the Gen 5

			V-8 engine.
Memorandum of Agreement	Cloyes Gear and Products, Inc./Renold PLC	April 20, 2006	License to use scheduled patents world-wide