

Patent List: Warn Automotive, LLC

Product Categories

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Integrated Wheel End Disconnect

Title	Country	Application Number	Patent Number	Filing Date
HUB ASSEMBLY HAVING A CLUTCH RING TRAVEL LIMITER	US	11/013105	7143883	12/15/2004
HUB ASSEMBLY HAVING A CLUTCH RING TRAVEL LIMITER	KR	10-2005-0122957	10-1191291	12/14/2005
INTEGRATED WHEEL END SHIFT FORK COMPLIANT STOP	US	13/958042	9205738	08/02/2013
MOTORIZED DISCONNECT SYSTEM AND OPERATION METHODS	US	14/678245	9656548	04/03/2015
A MOTORIZED DISCONNECT ASSEMBLY, A MOTORIZED DISCONNECT SYSTEM, AND A METHOD FOR SELECTIVELY ENGAGING TWO SHAFTS	KR	10-2015-0052419	101699734	4/14/2015
MOTORIZATION DISCONNECTS SYSTEM AND OPERATING METHOD	CN	2015101820820	104999910	4/16/2015
MOTORIZED DISCONNECT SYSTEM AND OPERATION METHODS	US	15/488255	10228026	04/14/2017
MOTORIZED DISCONNECT SYSTEM AND OPERATION METHODS	US	16/247376	10,801,553	1/14/2019
MOTORIZED DISCONNECT SYSTEM AND OPERATION METHODS	US	16/584507	10,724,580	9/26/2019
MOTORIZED DISCONNECT ASSEMBLY	US	29/715,477	D971,089	12/2/2019
MOTORIZED DISCONNECT ASSEMBLY	US	29/715,469	D971,088	12/2/2019

Hub Locking System

Title	Country	Application Number	Patent Number	Filing Date
VACUUM LOCKING HUB CARTRIDGE FOR FOUR WHEEL DRIVE VEHICLE	US	10/745241	7000750	12/22/2003
VACUUM ACTUATED WHEEL HUB	US	10/842019	7055667	05/07/2004
COMPACT PULSE VACUUM LIVE SPINDLE HUB LOCK	US	14/156774	9091307	01/16/2014
COMPACT PULSE VACUUM GYROAXIS HUBLOCK	CN	2014100592428	104029562	2/21/2014
COMPACT PULSE VACUUM LIVE SPINDLE HUB LOCK	KR	10-2014-0023910	10-1604181	02/28/2014
LOCKING HUB SYSTEM	US	14/479117	9,382,951	9/5/2014
ELECTRIC HUB LOCK WITH MANUAL OVERRIDE	US	16/014709	10,844,913	6/21/2018
HUB CONNECTING DEVICE STEM	US	29/816,557	D1,033,312	11/23/2021
HUB CONNECTING DEVICE STEM	CA	212219	212219	4/21/2022

Axle Disconnect

Title	Country	Application Number	Patent Number	Filing Date
FOUR-WHEEL DRIVE CENTER DISCONNECT ELECTRIC ACTUATOR	US	11/150575	7,316,304	06/10/2005
FOUR-WHEEL DRIVE CENTER DISCONNECT ELECTRIC ACTUATOR	KR	10-2006-0030721	10-1147668	04/04/2006
FOUR-WHEEL DRIVE CENTER DISCONNECT ELECTRIC ACTUATOR	US	11/760817	7793767	06/11/2007
4-WHEEL DRIVE CENTER INTERMITTENT ELECTRIC ACTUATOR	JP	2008-148085	5529396	06/05/2008
ELECTROMAGNETIC PULSE DISCONNECT SYSTEM AND METHOD	US	14/686057	9,915,298	4/14/2015
ELECTROMAGNETIC PULSE DISCONNECT SYSTEM AND METHOD	CN	2015101945224	105034796	4/22/2015
A METHOD OF OPERATING A DISCONNECT ASSEMBLY OF A SHAFT, AN ELECTROMAGNETIC PULSE DISCONNECT	KR	10-2015-0057003	101697124	4/23/2015
ELECTROMAGNETIC COIL SYSTEM AND METHODS	US	14/845167	9,812,238	9/3/2015
ELECTROMAGNETIC COIL SYSTEM AND METHODS	KR	10-2016-0104293	102564284	8/17/2016

Axle Disconnect (Continued)

Title	Country	Application Number	Patent Number	Filing Date
FOUR-WHEEL DRIVE VEHICLE CONTROL SYSTEMS AND METHODS	US	15/419611	10,144,284	1/30/2017
FOUR-WHEEL DRIVE VEHICLE CONTROL SYSTEMS AND METHODS	CN	201780007769.8	108698511	1/30/2017
ELECTROMAGNETIC PULSE DISCONNECT SYSTEM AND METHOD	US	15/668,875	10,221,900	8/4/2017
ELECTROMAGNETIC PULSE DISCONNECT SYSTEM AND METHOD	US	15/668889	10,731,715	8/4/2017
ELECTROMAGNETIC COIL SYSTEM AND METHODS	US	15/685300	10,535,458	8/24/2017
COMPACT ELECTROMAGNETIC PULSE DISCONNECT SYSTEM	US	16/206791	10,955,013	11/30/2018
GROOVED GUIDE CAGE	US	29/671,975	D974,969	11/30/2018
ARMATURE CAM	US	29/671,844	D979603	11/30/2018
COIL UNIT	US	29/671846	D963719	11/30/2018
LATCH RING	US	29/671,987	D881,767	11/30/2018
CAM FOLLOWER	US	29/671,981	D890,237	11/30/2018
COIL UNIT	CN	201930275427.6	305527136	5/30/2019

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LATCH RING	CN	201930275417.2	305695262	5/30/2019
CAM FOLLOWER	CN	2019302754153	201930275415.3	5/30/2019
GROOVED GUIDE CAGE	CN	2019302759496	201930275949.6	5/30/2019
ARMATURE CAM	CN	2019302754261	201930275426.1	5/30/2019
COMPACT ELECTROMAGNETIC PULSE DISCONNECTING COMPONENT AND APPLICATION METHOD THEREOF	CN	2019112065601	111255820	11/29/2019
COMPACT ELECTROMAGNETIC PULSE DISCONNECT SYSTEM	US	17/087,301	11,506,247	11/2/2020
COMPACT ELECTROMAGNETIC PULSE DISCONNECT SYSTEM	US	17/087,315	11,624,409	11/2/2020