

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5976265

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
Name			Execution Date
ELECTRONIC MOTION SYSTEMS HOLDINGS LIMITED			02/20/2020
RECEIVING PARTY DATA			
Name:	KSR IP HOLDINGS, LLC		
Street Address:	2711 CENTERVILLE ROAD		
Internal Address:	SUITE 400		
City:	WILMINGTON		
State/Country:	DELAWARE		
Postal Code:	19808		
PROPERTY NUMBERS Total: 1			
Property Type	Number		
Application Number:	10917976		
CORRESPONDENCE DATA			
Fax Number:	(248)647-6000		
<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:	(248)647-5210		
Email:	Stacey.Malcolm@DINSMORE.COM		
Correspondent Name:	DINSMORE & SHOHL LLP		
Address Line 1:	900 WILSHIRE DRIVE		
Address Line 2:	SUITE 300		
Address Line 4:	TROY, MICHIGAN 48084		
ATTORNEY DOCKET NUMBER:	KSR-32302/08		
NAME OF SUBMITTER:	THOMAS E. ANDERSON		
SIGNATURE:	/Thomas E. Anderson/		
DATE SIGNED:	02/21/2020		
Total Attachments: 7			
source=20FEB2020 Signed Assignment of Patents from EMS to KSR#page1.tif			
source=20FEB2020 Signed Assignment of Patents from EMS to KSR#page2.tif			
source=20FEB2020 Signed Assignment of Patents from EMS to KSR#page3.tif			
source=20FEB2020 Signed Assignment of Patents from EMS to KSR#page4.tif			

source=20FEB2020 Signed Assignment of Patents from EMS to KSR#page5.tif

source=20FEB2020 Signed Assignment of Patents from EMS to KSR#page6.tif

source=20FEB2020 Signed Assignment of Patents from EMS to KSR#page7.tif

PATENT

REEL: 051890 FRAME: 0919

ASSIGNMENT OF PATENTS

WHEREAS, THE UNDERSIGNED, ELECTRONIC MOTION SYSTEMS HOLDINGS LIMITED ("Assignor") is the owner of the inventions set forth in the patents and patent applications set out in Schedule A attached hereto ("Patents");

WHEREAS, KSR IP HOLDINGS, LLC, ("Assignee") a Limited Liability Company organized under and pursuant to the laws of Delaware having its principal place of business at 2711 Centerville Road, Suite 400, Wilmington, Delaware 19808, wishes to acquire all of the Assignor's right, title and interest in and to the Patents, and the Assignor wishes to transfer all such right title and interest to the Assignee;

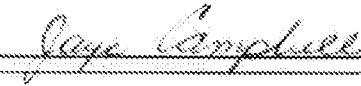
NOW THEREFORE Assignor, in consideration of the sum of one dollar (\$1.00) the receipt of which is hereby acknowledged, and other consideration paid pursuant to the Purchase Agreement dated as of July 14, 2014, and to which the Assignor and Assignee are parties, confirms that it has assigned and for greater certainty hereby assigns unto Assignee all of the Assignor's right, title, and interest in and to the Patents, including the full and exclusive right, title and interest in and to the said inventions in the United States and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States and in any and all foreign countries and in and to any and all divisions, reissue, continuations, continuations-in-part, registrations, additions, and/or extensions thereof or thereto, including the full right to claim for any such applications the benefits of the International Convention, together with all rights of action resulting from any prior unauthorized use, including any infringement of the Patents, and the right to claim damages and such other relief as is appropriate, and the benefits and obligations of licenses to third parties, including all right, to royalty and other income connected with such inventions and Patents, the same to be held and enjoyed by the Assignee, its successors, and assigns as fully and effectually as they would have been held and enjoyed by the Assignor had this assignment and sale not been made.

ASSIGNOR hereby authorizes and requests the Patent Office officials in the United States and in any and all foreign countries to issue any and all said Letters Patent, when granted, to said Assignee as the owner of the entire right, title, and interest in and to the same, for the sole use and behoof of said Assignee its successors and assigns.

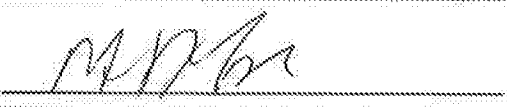
FURTHER, Assignor agrees to communicate to said Assignee or its representatives any facts known to Assignor respecting said inventions and Patents, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitution, renewal, extension, addition and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said Assignee, make all rightful oaths and generally do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper protection for said inventions and Patents in the- United States and in any and all foreign countries.

Assignment of Patents page 1 of 3

AND the Assignor hereby undertakes to, without further consideration but at the expense of the Assignee executes all such documents and so all such acts as may be reasonably necessary to perfect such assignment.

Assignor: ELECTRONIC MOTION SYSTEMS HOLDINGS LIMITED	
Signed:	
Printed Name:	JIM TOMPKINS
Printed Title:	ENG. MANAGER
Date:	2020-02-20
Witness:	
Signed:	
Printed Name:	Jaye Campbell
Title:	Office Administrator

ASSIGNEE hereby accepts and receives this ASSIGNMENT OF PATENTS.

Assignor: KSR IP HOLDINGS, LLC	
Signed:	
Printed Name:	Michael D. Olajos
Printed Title:	Engineering Team Leader
Date:	20 FEB 2020
Witness:	
Signed:	
Printed Name:	F. MATTHEW VYSKOCIL
Title:	PROGRAM MANAGER

SCHEDULE "A"

Patents

PATENT NO.	TITLE	SERIAL NO.	FILING DATE	ISSUE DATE
6,281,579	INSERT-MOLDED LEADFRAME TO OPTIMIZE INTERFACE BETWEEN POWERTRAIN AND DRIVER BOARD	09/033,125	2/13/1988	8/28/2001
6,155,464	POWER MODULE	09/375,716	8/17/1999	12/26/2000
	POWER MODULE	09/521,724	7/24/2000	8/27/2002
6,441,520	POWER MODULE (DIV. OF P-101A)	09/650,305	9/12/2000	4/9/2001
6,212,087	ELECTRONIC HALF BRIDGE MODULE	09/494,563	1/12/2000	4/9/2001
6,278,199	ELECTRONIC SINGLE SWITCH MODULE	09/512,483	2/23/2000	5/2/2001
6,819,095	POWER SEMICONDUCTOR DEVICE ASSEMBLY WITH INTEGRATED CURRENT SENSING AND	09/660,813	9/13/2000	11/16/2004
6,362,546	RECTIFIER DEVICE FOR A DYNAMO OF A MOTOR VEHICLE	09/670,133	9/26/2000	6/25/2002
6,411,536	RECTIFIER DEVICE HAVING A COOLING BODY FOR A THREE-PHASE DYNAMO OF A MOTOR VEHICLE	09/709,653	1/19/2001	3/29/2002
6,362,964	FLEXIBLE POWER ASSEMBLY	09/629,582	8/14/2001	12/3/2002
6,490,162	HEATSINK RETAINER	09/649,764	9/12/2001	5/28/2005
6,912,134	FAN CONTROL CIRCUIT AND PACKAGE	09/509,454	7/19/2001	8/30/2003
6,527,975	A MINITAB RECTIFYING DIODE PACKAGE WITH TWO DIFFERENT TYPES OF DIODES FOR	10/445,472	5/27/2003	3/30/2004
6,713,937	MINITAB RECTIFIER FOR ALTERNATORS (DIV. OF P-110A)	10/114,541	4/17/2002	3/18/2006
7,046,516	POWER MODULE	29/140,067	4/11/2001	5/7/2002
D456,772	POWER MODULE HOUSING	09/949,262	9/7/2001	12/30/2003
6,570,792	ALTERNATOR REGULATION CIRCUIT HAVING PARALLEL FIELD COIL CURRENT RE-CIRCULATION	09/986,596	8/28/2001	6/3/2003
6,573,689	PROGRAMMABLE ALTERNATOR REGULATION CIRCUITRY	10/283,414	10/29/2002	8/7/2004
6,744,138	LIQUID IMMERSION COOLING FOR SEMICONDUCTOR DEVICE	10/425,031	4/28/2003	2/7/2006
6,995,679	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND			
	SYSTEM FOR MOTOR CONTROL (CLAIMS P-115 & 116A)			
7,180,256	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLES AND METHOD AND	11/228,858	9/16/2005	9/30/2007
	SYSTEM FOR MOTOR CONTROL (DIV. OF P-118B)			
	PLANAR DC-DC CONVERTER FOR MULTIVOLT ELECTRICAL APPLICATIONS	10,454,280	8/3/2003	
7,042,730	NON-ISOLATED HEATSINK(S) FOR POWER MODULES	10,631,879	7/31/2003	5/6/2006
7,292,445	ACTIVE INTEGRATED RECTIFIER REGULATOR	10/737,492	2/25/2004	11/8/2007
7,149,088	HALF-BRIDGE POWER MODULE WITH INSERT MOLDED HEATSINKS	10,671,246	8/18/2004	12/12/2008
7,187,551	MODULE FOR SOLID STATE RELAY FOR ENGINE COOLING FAN CONTROL	10,916,846	8/12/2004	3/5/2007
6,933,583	POWER MODULE HAVING A HEAT SINK	10,917,976	8/13/2004	8/23/2005
	PIN TYPE HEAT SINK FOR CHANNELING AIR FLOW	11/189,541	7/29/2005	
	SEMICONDUCTOR HALF-BRIDGE MODULE WITH LOW INDUCTANCE	11/474,714	8/26/2006	
	HEATSINK WITH ADAPTED BACKPLATE	11/463,467	7/10/2006	
7,521,803	MONOLITHIC ALTERNATOR REGULATOR WITH CONFIGURABLE REGULATION MODES	11/462,060	8/3/2006	4/27/2008
7,433,267	THREE-PHASE INVERTER POWER STAGE AND ASSEMBLY	11/623,520	1/16/2007	
	BIDIRECTIONAL ISOLATED DC/DC CONVERTER	11/566,822	12/5/2006	10/7/2008
9,088,226	POWER MODULE FOR CONVERTING DC TO AC	13/880,553	4/19/2013	7/21/2015
	SEALED CONNECTOR AND METHOD OF SEALING A CONNECTOR	14/788,481	7/1/2015	

PATENT NO.	TITLE	COUNTRY	APPL. NO.	FILING	GRANT
9910726	POWER MODULE	FRANCE	9910726	8/24/1999	6/17/2005
19839933	POWER MODULE	GERMANY	P19939933.8	8/23/1999	5/13/2004
3103354	POWER MODULE	JAPAN	236-402/1999	8/24/1999	8/25/2000
	ELECTRONIC HALF BRIDGE MODULE	GERMANY	10004196.5	2/1/2000	
3708116	ELECTRONIC HALF BRIDGE MODULE	JAPAN	2000-029818	2/7/2000	8/12/2005
	ELECTRONIC SINGLE SWITCH MODULE	GERMANY	10008582.2	2/24/2000	
	ELECTRONIC SINGLE SWITCH MODULE	JAPAN	2000-050111	2/25/2000	
DE10045563	POWER ASSEMBLY WITH INTEGRATED CURRENT SENSING	GERMANY	10045563.8	9/14/2000	9/9/2004
3453115	POWER ASSEMBLY WITH INTEGRATED CURRENT SENSING	JAPAN	2000-281857	9/18/2000	7/18/2003
	RECTIFIER DEVICE FOR A DYNAMO OF A MOTOR VEHICLE	JAPAN	2000-291578	9/26/2000	
	RECTIFIER DEVICE FOR A DYNAMO OF A MOTOR VEHICLE	GERMANY	19946255.0	9/27/1999	
	RECTIFIER DEVICE FOR A DYNAMO OF A MOTOR VEHICLE	EP	00203247.2	9/19/2000	
	THREE-PHASE DYNAMO-RECTIFYING DEVICE FOR AUTOMOBILES	JAPAN	2000-294659	9/27/2000	
	RECTIFIER ARRANGEMENT	GERMANY	19946259	9/27/1999	
	RECTIFIER DEVICE FOR A THREE-PHASE DYNAMO OF A MOTOR VEHICLE	EP	00203246.4	9/19/2000	
	FLEXIBLE POWER ASSEMBLY	GERMANY	10056832.7	11/16/2000	
0014866	FLEXIBLE POWER ASSEMBLY	FRANCE	0014866A	11/17/2000	8/1/2001
	FLEXIBLE POWER DEVICE	JAPAN	2000-350726	11/17/2000	
0105872	FLEXIBLE POWER ASSEMBLY	FRANCE	0105872	11/17/2000	1/6/2006
	SEMICONDUCTOR DEVICE MODULE	JAPAN	2007-107052	4/16/2007	
NI-197282	POWER MODULE	TAIWAN	90120730	8/23/2001	11/11/2003
	POWER MODULE	GERMANY	10296619.2-34	4/2/2002	
4053887	POWER MODULE (NATIONAL STAGE ENTRY OF PCT/US02/10531)	JAPAN	2002-577503	4/2/2002	12/14/2007
2427274	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL (Claims priority to P-116, P-116A & P-116B)	CANADA	2427274	4/30/2003	4/3/2007
	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL (Claims priority to P-116, P-116A & P-116B)	GERMANY	10319537.8	4/30/2003	
0305245	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL (Claims priority to P-116, P-116A & P-116B)	FRANCE	0305245	4/29/2003	5/26/2006

PATENT NO.	TITLE	COUNTRY	APPL. NO.	FILING	GRANT
2368090	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL (Claims priority to P-116, P-116A & P-116B)	GREAT BRITAIN	0310011.2	4/30/2003	7/14/2004
	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL (Claims priority to P-116 P-116A & P-116B (Division of FP-116B (CA)))	CANADA	2572343A	4/30/2003	
	ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL (Claims priority to P-116 P-116A & P-116B (Division of FP-116B (DE)))	GERMANY	1036221.7	4/30/2003	
	PLANAR DC-DC CONVERTER FOR MULTI-VOLT ELECTRICAL APPLICATIONS	JAPAN	2004-510092	5/2/2003	9/22/2005
	PLANAR DC-DC CONVERTER FOR MULTI-VOLT ELECTRICAL APPLICATIONS	GERMANY	10392712.3	5/2/2003	
	HALF-BRIDGE POWER MODULE WITH INSERT MOLDED HEATSINKS	TAIWAN	93117315	5/16/2004	6/1/2006
	POWER MODULE FOR SOLID STATE RELAY	EP	04019243.7	8/13/2004	2/16/2005
	MODULE FOR EPAS/EHPAS APPLICATIONS	CHINA	200480023340.0	8/16/2004	4/29/2009
	MODULE FOR EPAS/EHPAS APPLICATIONS	EP	04781246.6	8/16/2004	5/10/2006
	MODULE FOR EPAS/EHPAS APPLICATIONS	JAPAN	2006-523438	8/16/2004	2/8/2007
	PIN TYPE HEAT SINK FOR CHANNELING AIR FLOW	CHINA	200510088819.90	7/29/2005	2/15/2006
	PIN TYPE HEAT SINK FOR CHANNELING AIR FLOW	TAIWAN	94125990	7/29/2005	2/16/2005
	SEMICONDUCTOR HALF-BRIDGE MODULE WITH LOW INDUCTANCE	CHINA	200680021922.4	6/26/2006	9/10/2008
	SEMICONDUCTOR HALF-BRIDGE MODULE WITH LOW INDUCTANCE	EP	06785584.1	6/26/2006	4/9/2008
	SEMICONDUCTOR HALF-BRIDGE MODULE WITH LOW INDUCTANCE (NATIONAL STAGE ENTRY OF PCT/US06/24813)	JAPAN	2008518497	6/26/2006	3/26/2009
	HEAT SINK WITH GLUED BACKPLATE	EP	06076400A	7/12/2006	1/17/2007
	HEAT SINK WITH ADAPTED BACKPLATE	JAPAN	2006-191546	7/12/2006	3/8/2007
	MONOLITHIC ALTERNATOR REGULATOR WITH CONFIGURABLE REGULATION MODES	EP	06016533.9	8/8/2006	2/14/2007
	MONOLITHIC ALTERNATOR REGULATOR WITH CONFIGURABLE REGULATION MODES	JAPAN	2006-215271	8/8/2006	3/1/2007
	THREE PHASE INVERTER POWER STAGE AND ASSEMBLY	EP	07000897.4	1/17/2007	8/15/2007
	A BIDIRECTIONAL ISOLATED DC/DC CONVERTER (NATIONAL STAGE ENTRY OF PCT/US/2007006221)	EP	07752889.1	3/12/2007	12/3/2008
	A POWER MODULE FOR CONVERTING DC TO AC	WO	PCT/CA2011/00116	10/19/2011	

PATENT NO.	TITLE	COUNTRY	102015110581	17/2015	GRANT
	SEALED CONNECTOR AND METHOD OF SEALING A CONNECTOR	GERMANY			