

01-08-2003

Form PTO-1595

(Rev. 10/02)

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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 6/30/2005)

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Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

ArvinMeritor Technology, LLC

01/08/03

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

12/30/02

Execution Date:

2. Name and address of receiving party(ies)

Name: AxleTech International IP Holdings, LLC

Internal Address:

Street Address: 2135 West Maple Road

City: Troy State: MI Zip: 48084

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

see attached Schedule A

B. Patent No.(s)

see attached Schedule A

Additional numbers attached? ☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name:

Internal Address:

RETURN TO:
FEDERAL RESEARCH CORP**1030 15TH STREET NW**Street Address: **SUITE 920****WASHINGTON DC 20006**

City: State: Zip:

6. Total number of applications and patents involved: 33

7. Total fee (37 CFR 3.41).....\$ 1,320.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

Sharon S. Patterson

Name of Person Signing

Sharon S. Patterson

Signature

1/6/03

Date

Total number of pages including cover sheet, attachments, and documents: 7

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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 13625 FRAME: 0314

SCHEDULE A

Application Nos.

09372273
09711732
09356431
09548228
09947047
10091630
09943015
10116206
10117581
10117578
10116256
10119266
10116551
10116780
10115651
10116405
10116408
10114207
10055159

Patent Nos.

4529067
4736821
5052528
5035303
5435793
6296087
6206798
6142262
6116383
6264009
6254193
6402384
6345868
6305505

ASSIGNMENT OF U.S. PATENTS

WHEREAS, ArvinMeritor Technology, LLC, ("Assignor") a corporation organized under the laws of the State of Delaware, owns the patents and patent applications identified in the attached Schedule A and pending in or issued from The U.S. Patent and Trademark Office – ("Patents"); and,

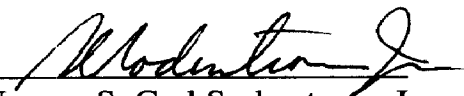
WHEREAS, AxleTech International IP Holdings, LLC., ("Assignee") a Michigan limited liability corporation, is the successor to the ongoing and existing portion of the business of Assignor in which the patents are used; and

WHEREAS, Assignee desires to obtain all of Assignor's right, title, and interest in and to the Patents.

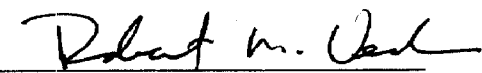
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby assigns, conveys, sells, grants and transfers to Assignee, its successors and assigns, all of Assignor's right, title and interest in and to the Patents including all divisions, continuations, continuations in part, reexaminations, substitutions, reissues, extensions, and renewals of such Patents, and all rights to causes of action and remedies related thereto, including the right to sue for past, present, or future infringement or violation of rights relating to the Patents.

IN WITNESS WHEREOF, the parties have caused this Assignment to be executed as of this 30th day of Dec., 2002.

ArvinMeritor Technology, LLC

By: 
Name: S. Carl Soderstrom, Jr.
Title: President

AxleTech International IP Holdings, LLC

By: 
AxleTech International Holdings, Inc., as Sole Member
Name: Robert M. Vedra
Title: President, Secretary and Treasurer

D\ELIB:2369701.2\110425-00058

PATENT
REEL: 13625 FRAME: 0316

Schedule A
I. Patents and Patent Applications - Active

Meritor Ref. No.	Patent Title	Country	Status	Application No.	Filing Date	Patent No.	Issue Date	Assignee
3586	Multiple Disc	US CA	Granted Granted	0528325 459670	31-Aug-83 25-Jul-84	4529067 1238585	16-Jul-85 28-Jun-88	Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC
4244	Fluid Cooled Friction Brake	US	Granted	06/543567	19-Oct-83	4736821	12-Apr-88	Meritor Heavy Vehicle Technology, LLC
4903	Steering Knuckle Damper	US	Granted	07/563478	06-Aug-90	5052528	01-Oct-91	Meritor Heavy Vehicle Technology, LLC
5345	Excessive Wear Indicator for Brake System	US	Granted	07/432817	07-Nov-89	5035303	30-Jul-91	Meritor Heavy Vehicle Technology, LLC
92AUT024	Planetary Reduction for Drive Axles	US BR DE	Granted Granted Granted	08/088271 P19202976 P4322517.9	02-Jul-93 31-Jul-92 06-Jul-93	5435793 9202976A 4322517A1	25-Jul-95 01-Feb-94 03-Feb-94	Meritor Heavy Vehicle Technology, LLC Meritor Do Brasil Ltda. Meritor Do Brasil Ltda.
97AUT002	Differential and Drive Pinion Assembly	US BR DE JP	Granted Pending Pending Pending	09/446847 P19714769.9 19782293.2 2000-505441	29-Jul-97 29-Jul-97 29-Jul-97	6200241	13-Mar-01	Meritor Do Brasil Ltda. Meritor Do Brasil Ltda. Meritor Do Brasil Ltda.
97AUT017	Trunnion Mount	US EP	Granted Pending	08/933300 98116533.5	18-Sep-97 02-Sep-98	5971413	26-Oct-99	Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC
97AUT048	Wet Disc Brake with Internal Drive/External Cooler	US DE IT	Granted Pending Pending	09/427814 10051862.1 TO2000A001003	27-Oct-99 19-Oct-00 24-Oct-00	6296087	02-Oct-01	Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC
97AUT050	Active Differential	US	Granted	09/390162	03-Sep-99	6206798	27-Mar-01	Meritor Heavy Vehicle Technology, LLC
98AUT073	Single Fastening of Differential Case Halves and Ring Gear	US	Pending	09/372273	11-Aug-99			Meritor Heavy Vehicle Technology, LLC
98AUT104	Wet Disc Pack with Modified Stationary Discs	US	Granted	09/176446	21-Oct-98	6142262	07-Nov-00	Meritor Heavy Vehicle Technology, LLC
98AUT105	Wet Disc Pack With Variable Co-Efficients of Friction Discs	US	Granted	09/176177	21-Oct-98	6116383	12-Sep-00	Meritor Heavy Vehicle Technology, LLC
99AUT092	Multi-Stage Wet Disc Brake	US EP	Granted Pending	09/325273 00110289.6	03-Jun-99 23-May-00	6264099	24-Jul-01	Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Systems, LLC
99AUT095	Dual Wheel Differential	US EP JP	Allowed Pending Pending	09/711732 01309317.4 2001-348293	14-Nov-00 02-Nov-01 14-Nov-01			Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC
99AUT097	Reduced Drag Wet Disc Brake	US EP	Pending Pending	09/356431 00113071.5	19-Jul-99 26-Jun-00			Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Systems, LLC

Meritor Ref. No.	Patent Title	Country	Status	Application No.	Filing Date	Patent No.	Issue Date	Assignee
99MRA125, 128, 135, 137, 139	Dual Wheel Assembly With Variable Wheel Engagement	US EP	Pending	09/540226 01301448.3	12-Apr-00 12-Apr-01			Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC
99MRA126, 134	Dual Wheel Assembly Differential	US EP	Granted Pending	09/590450 01303666.4	09-Jun-00 30-Apr-01	6254193	03-Jul-01	Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC
99MRA0129	Hydrostatic Axle Bearing	US	Granted	09/547547	12-Apr-00	6402384	11-Jun-02	Meritor Heavy Vehicle Technology, LLC
99MRA0133, 138	Wheel Bearing Arrangement For A Dual Wheel Assembly	US EP	Granted Pending	09/528386 1301568.9	3/20/00 3/22/01	6419325	16-Jul-02	Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC
99MRA0136	Drive Assembly For Independently Driving Vehicle Wheels	US EP	Granted Pending	09/532898 01302599.8	22-Mar-00 20-Mar-01	6267188	31-Jul-01	Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Technology, LLC
99MRA0141	Fluid Coupling For Dual Wheels	US EP	Granted Pending	09/501839 01300460.1	10-Feb-00 19-Jan-01	6345868	12-Feb-02	Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Systems, LLC
99MRA0146	Heavy Vehicle Axle With Separate Load Bearing Device	US	Granted	09/502096	10-Feb-00	6357834	19-Mar-02	Meritor Heavy Vehicle Systems, LLC
99MRA0147	Wheel Assembly For A Vehicle	US EP	Granted Pending	09/498404 01300451.0	04-Feb-00 19-Jan-01	6298932	09-Oct-01	Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC
99MRA0148	Reduced Drag Wet Disc Brake Assembly	US EP	Allowed Pending	09/498442 01300457.7	04-Feb-00 19-Jan-01			Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC
99MRA0149	Differential Lock Actuator	US EP US (con)	Granted Pending Pending	09/536116 01302667.9 09/910535	27-Mar-00 22-Mar-01 20-Jul-01	6283884	04-Sep-01	Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC
99MRA0232	Reduced Friction Wet Disc Brake	US DE IT GB	Granted Pending Pending Pending	09/491743 10100557.1 T02001A00030 0100720.2	27-Jan-00 09-Jan-01 17-Jan-01 11-Jan-01	6305505	23-Oct-01	Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC Meritor Heavy Vehicle Systems, LLC
00MRA0506	Eccentric Pinion Cage	US	Pending	09/947047	05-Sep-01			Meritor Heavy Vehicle Technology, LLC
00MRA635	Independently Rotating Wheels	US	Pending	10/091630	06-Mar-02			Meritor Heavy Vehicle Technology, LLC
00MRA636	Independently Rotating Wheels With Planetary Drive	US EP JP	Pending Filed Filed	09/943015 02254980.2 2002-252403	30-Aug-01 16-Jul-02 30-Aug-02			Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC Meritor Heavy Vehicle Technology, LLC

Meritor Ref. No.	Patent Title	Country	Status	Application No.	Filing Date	Patent No.	Issue Date	Assignee
01MRA0413, 430	System For Controlling Airflow in Driveline Component Utilizing Forced Airflow	US	Pending	10/110206	04-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0414, 428	Cooling System For Axle Assembly	US	Pending	10/117581	05-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0415	Vehicle Temperature Control With Thermoelectric Device	US	Pending	10/117578	05-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0416, 438	Forced Air Cooling System For Vehicle Driveline Comps.	US	Pending	10/116256	04-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0419, 426, 434	Hydraulic Vehicle Braking System	US	Pending	10/119266	09-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0420	Electric Retarder/Generator for Additional Braking Energy	US	Pending	10/116551	04-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0422, 424, 429	Evaporative Cooling For Temp Control Of Driveline Comp.	US	Pending	10/116780	04-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0425	Drive Axle Assembly With Rheological Fluid Retarder	US (CIP of 99AUT097)	Pending	10/115651	03-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0427, 432, 433	Refrigeration System For Temp Control of Driveline Comp.	US	Pending	10/116405	03-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0431	Temp Control System For Driveline Comp Incl Eng. Cooling	US	Pending	10/116408	03-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0435	Vehicle Drive Axle Oil Splasher	US	Pending	10/114207	02-Apr-02			Meritor Heavy Vehicle Technology, LLC
01MRA0541	Electronic Drive Unit Assembly for Heavy Duty Vehicles	US	Pending	10/055159	23-Jan-02			Meritor Heavy Vehicle Technology, LLC
02MRA0326	Hydraulic Diff Lock	US	Provisional	60/380799	15-May-02			N/A
02MRA0160	Planetary Wheelend	US	Approved for filing					
02MRA0540	Articulating Drop Chain Box	US	Approved for filing					
95AUT005	Single Disc Shaft Speed Wet Brake							
97AUT048	Wet Brake With Internal Pump							
97AUT049	Wet Brake Internal Wear Sensor							
98AUT094	Wet Brake Split Friction Pack							
99AUT013	Product Field Problem and Tracking System							
99AUT058	Electronic Differential Lock for Off Road Vehicles							

Meritor Ref. No.	Patent Title	Country	Status	Application No.	Filing Date	Patent No.	Issue Date	Assignee
99AUT096	"Engage on the Fly" Differential							
99AUT104	Wet Disc Brake with Modified Stationary Discs							
99MRA0127	Removable, Replaceable Tire Tread Wrap for Heavy Off-Road Vehicles							
99MRA0129	Hydrostatic Bearing in Drive Axle Cooling System							
99MRA0130	Changing Tire Profile on Self-Leveling Vehicle							
99MRA0131	Sliding Hub Axial Engagement							
99MRA0132	Skid Steer Fork Truck							
99MRA0140	Viscous Coupling Between Driven and Non-Driven Wheels							
00MRA0637	Cooling System for Axles							
00MRA0243	Full Complement Taper Roller Bearing							
02MRA0066	Independent Braking of Dual, Driven Wheels							
02MRA0308	Planetary Pinion Support							
unnumbered	Wet Brake Oscillation Damper							

RECORDED: 01/06/2003

PATENT
REEL: 13625 FRAME: 0320