

3-30-01

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

04-12-2001

U.S. Department of Commerce
Patent and Trademark Office
PATENT



101671887
**RECORDATION FORM COVER SHEET
PATENTS ONLY**

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
Document ID#

Correction of PTO Error
Reel # Frame #

Corrective Document
Reel # Frame #

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) Execution Date Month Day Year

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date Month Day Year

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT
REEL: 011659 FRAME: 0087

Correspondent Name and Address

Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages

Enter the total number of pages of the attached conveyance document including any attachments. #

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT PCT PCT
PCT PCT PCT

Number of Properties

Enter the total number of properties involved. #

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed Deposit Account

Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)
Deposit Account Number: #

Authorization to charge additional fees: Yes No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

John M. Siragusa Reg. No 46,174



March 29, 2001

Name of Person Signing

Signature

Date

05-15-2000

Form PTO-1597
(Rev. 6/93)
OMB No. 0651-0011

RECORD



U. S. Dept. of Commerce
Patent and Trademark Office

101355163

To the Honorable _____
Please record the attached original documents or copy thereof

1. Name of conveying party(ies)
Lucas Industries PLC
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Meritor Automotive, Inc.
Internal Address: Patent Department
Street Address: 2135 West Maple Road
City: Troy State: Michigan Zip: 48084-7186
Additional name(s) & address(es) attached: Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agt. Change of Name
 Other _____
Execution Date: June 8, 1999

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date is: _____
A. Patent Application No.(s) B. Patent No(s). 4,637,498, 4,666,022, 4,817,763, 4,685,541, 4,923,036, 4,907,678, 4,688,661, 4,702,352, 5,715,681, 4,838,390, 4,516,400, 5,012,901, 4,830,149, 5,074,388, 5,441,293, 5,398,790, 5,520,267, 4,712,839, 4,795,219, 5,328,251, 5,004,300, 5,004,299, 5,002,343, 5,427,440, 5,080,445, 5,050,938, 5,295,736, 4,920,493, 5,088,042, 5,632,530, 5,355,978, 4,603,761, 5,090,520, 5,253,477, 5,819,884, 4,809,822, 5,316,115, 4,759,429, 4,773,511, 5,819,885, 4,557,110, 4,782,924, 4,358,002, 5,460,434, 4,677,420, 5,575,543, 5,558,002, 5,513,726, 4,862,998, 5,496,098, 5,069,316, 4,919,239, 5,630,484, 5,407,037, 4,913,267, 5,228,545, 5,710,716, 5,518,306
Additional numbers attached: Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Theodore W. Olds, Howard & Howard Attorneys
Internal Address: The Pinehurst Office Center, Suite 101
1400 North Woodward
Street Address: Same As Above
City: Bloomfield Hills State: Michigan Zip: 48304

6. Total no. of applications and patents involved 66

7. Total fee (37 CFR 3.41) \$ 2,640.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:
08-2789
(Attach duplicate copy of this page if paying by deposit account)

05/12/2000 JSMBDZZ 00000110 4637498
01 FC:581 2640.00 DP

DO NOT USE THIS SPACE

9. Statement and signature. To the best of my knowledge and belief the foregoing information is true and correct and any attached copy is a true copy of the original document.
Theodore W. Olds, Reg. No. 33,080
Name of Person Signing
Signature
April 19, 2000
Date
Total number of pages including cover sheet, attachments and document : 7

**Schedule B-PAT
Lucas Industries PLC to Meritor Automotive, Inc.**

	TITLE	COUNTRY	APPLICATION NO.	PATENT NO.
	Sensor			
630.	CCV/CV Tractor/Trailer Brake Dual M.CYL System	US		4516400
631.	Compound Disc Ball Brake	US	411708	5012901
632.	De Adjust For Reaction Beam Caliper	US	133654	4830149
633.	Determination Of Lining Wear Condition	US	08/732344	
634.	Direct Mechanical Actuation Using Electric Motor	US	485504	5074388
635.	Drawbar Trailer Coupling Load Transducer	US	194066	5441293
636.	Drum Brake With Wear Compensation	US	138797	5398790
	[REDACTED]			
	[REDACTED]			
639.	Elsa II	US	08/307789	5520267
640.	EPB Differential Braking Control	US	08/930593	
641.	EPB Load Apportioning of Backup Pressure	US	08/952673	
642.	EPB. Compensating Braking System	US	868559	4712839
	[REDACTED]			
644.	EPB. Dynamic Load Apportioning	US	056626	4795219
645.	EPB. Pneumatic Backup Test System	US	921113	5328251
646.	EPB. Pressure Control (Link Pipe)	US	489037	5004300
647.	EPB. Pressure Control (Link Pipe)	US		5004299
648.	EPB. Semi-Trailer Braking	US	481218	5002343
649.	EPB. Solenoid Controlled Backup	US	094096	5427440
650.	EPB. Trailer Brake Control	US	437754	5080445
651.	EPB. Trailer Brake Speed Up	US	437821	5050938
652.	EPB. Trailer Control with Improved Compatibility	US	936405	5295736
653.	EPB. Transducer Zero Setting	US	56625	4920493
654.	EPB. Wear Equalization	US	488976	5088042
	[REDACTED]			
	[REDACTED]			
	[REDACTED]			
657.	EPS System Test	US	08/598073	5632530

Schedule B-PAT
Lucas Industries PLC to Meritor Automotive, Inc.

	TITLE	COUNTRY	APPLICATION NO.	PATENT NO.
658.	Timing Ball Spring Compensator CCV MAS CTL	US		4358484
659.	Fault Error Generator in Electronic Sensors	US	09/068979	
660.	GOIMPD Cooling Fluid Control Device	US	907127	5355978
661.	Guide Pin Boot Protection	US		4603761
662.	Heat Shield For RBMD	US	533517	5090520
663.	Hydraulic Servo Reservoir Improvements	US	877291	5253477
664.	Improved D-Elsa Pin Drive	US	08/666429	5819884
665.	Improved Lever For HD Caliper	US	098150	4809822
666.	Improved Lubrication System FCSSA/A/USA	US	604659	5316115
667.	Improved Wedge Actuator	US	018410	4759429
668.	Leaf Spring For Disc Brake	US		4773511
669.	Lever/Camshaft Assembly	US	682647	5819885
670.	Limited Compensation Dual Master Cylinder	US	662530	4557110
671.	Lining Segment With Different Radii	US	053718	4782924
672.	Multi Plate Automatic Adjuster Mechanism	US	076494	4358002
673.	Optimal Braking Force Distribution Strategy	US	211425	5460434
674.	Pad Wear Warning Indicator	US		4677420
675.	Partially Distributed ABS Control in a Braking System	US	08/337407	5575543
676.	Power Servo with Shanban Seals on Spool Valve	US	093270	5558002
677.	PWWI Cable Guide	US	478793	5513726
679.	Retaining Garter	US	196370	4862998
680.	Retarder Blending in an EPB System	US	08/313065	5496098
681.	Ring Gear With Pinion For FCSS/A	US	549167	5069316
683.	Secondary Dust Excluder For Pushrod	US	043804	
684.	Shoe Return Spring	US	133005	4919239
685.	Shoe Tip Having Multiple RadII	US	974090	5630484
686.	Shoe Tip Having Multiple RadII	US	314660	

ASSIGNMENT
United States Issued Patents And Patent Applications

WHEREAS, Lucas Industries PLC, a British corporation having its principal place of business at 46 Park Street, London W1Y 4DJ, England (hereinafter referred to as "ASSIGNOR"), is the owner of certain issued and filed United States Patents, as hereinafter specified; and

WHEREAS, Meritor Automotive, Inc., a Delaware corporation, having its principal place of business at 2135 Maple Road, Troy, Michigan 48084, (hereinafter referred to as "ASSIGNEE"), desires to acquire the entire right, title and interest in and to the issued and filed United States Patents hereinafter specified;

WITNESSETH:

NOW, THEREFORE, in consideration of good and valuable consideration the receipt and sufficiency of which is hereby acknowledged:

1. ASSIGNOR hereby assigns and sets over unto ASSIGNEE, its successors and assigns, the following:

(a) Its entire right, title and interest in and to the United States Patents enumerated in Schedule B-PATs hereof, attached hereto and made a part hereof, and all renewals and extensions thereof.

(b) All claims, demands, and rights of action, both statutory and based upon common law, that ASSIGNOR has or might have by reason of any infringements of the patents listed in Schedule B-PATs hereof prior to the date of this Assignment, together with the right to prosecute such claims, demands, and rights of action in ASSIGNEE's own name.

(c) Its entire right, title and interest in and to the applications filed for the United States Patents enumerated in Schedule B-PATs hereof and all issued patents that may be granted therefor and all renewals and extensions thereof.

ASSIGNMENT
United States Issued Patents And Patent Applications

IN WITNESS WHEREOF, ASSIGNOR, expressly intending to be legally bound hereby, has caused this Assignment to be duly executed this 8th day of June, 1999.

LUCAS INDUSTRIES PLC

MERITOR AUTOMOTIVE, INC.

Signature: [Signature]
Printed: James Zigel

Signature: [Signature]
Printed: Bonnie Wilkinson

Title: Authorized Signatory

Title: Assistant Secretary

Date: 6-8-99

Date: June 17, 1999

Before me, the undersigned, a Notary Public on this 8th day of June, 1999, personally appeared James Zigel, who, being duly sworn, did say that s/he is the authorized signatory of Lucas Industries PLC, a British corporation, and that such instrument was signed and sealed on behalf of the corporation by authority of its Board of Directors, and he acknowledged that instrument to be the free act and deed to the corporation.

[Signature]
Notary Public **BARBARA A. CUSHNER**
NOTARY PUBLIC
STATE OF NEW YORK
QUALIFIED IN ERIE COUNTY
MY COMMISSION EXPIRES 5/24/2001

Address 3112 E. River Rd.
GRAND ISLAND, NY 14072

(Seal)

My commission expires: 5/24/2001

Witness [Signature]

Witness [Signature]