

Form PTO-1595 (Rev. 03/05)
 OMB No. 0651-0027 (exp. 6/30/2005)

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

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Meritor Heavy Vehicle Systems, Inc.

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

2. Name and address of receiving party(ies)

Name: Meritor Heavy Vehicle Systems, LLC

Internal Address: _____

Street Address: 2135 West Maple Road

City: Troy

State: MI

Country: 48084

Zip: _____

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) August 11, 1997

- Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

6276474; 6213264; 5992579; 5951402; 5939978;
 5927422; 5924504; 5893434; 5878830; 5875873

Additional numbers attached? Yes No

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

Name: Karin H. Butchko

Internal Address: Carlson, Gaskey & Olds, P.C.

Street Address: 400 West Maple, Suite 350

City: Birmingham

State: MI Zip: 48009

Phone Number: 248-988-8360

Fax Number: 248-988-8363

Email Address: _____

6. Total number of applications and patents involved: 10

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 400.00

- Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
 Expiration Date _____

b. Deposit Account Number 50-1482

Authorized User Name Karin H. Butchko

9. Signature:

Karin Butchko
 Signature

October 24, 2006

Date

Karin H. Butchko
 Name of Person Signing

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

14

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$400.00 501482 6276474

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PAGE 003/008

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10/04/2006
700290342Form PTO-1595 (Rev. 03/05)
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE
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Authorized User Name Karin H. Butchko

9. Signature: Karin Butchko

Signature

October 4, 2006

Date

Karin H. Butchko
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (703) 396-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450PATENT
REEL: 018420 FRAME: 0935

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED ARE TRUE AND CORRECT COPIES OF ALL DOCUMENTS ON FILE OF "MERITOR HEAVY VEHICLE SYSTEMS, LLC" AS RECEIVED AND FILED IN THIS OFFICE.

THE FOLLOWING DOCUMENTS HAVE BEEN CERTIFIED:

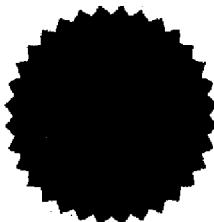
CERTIFICATE OF FORMATION, FILED THE TENTH DAY OF SEPTEMBER, A.D. 1997, AT 9 O'CLOCK A.M.

CERTIFICATE OF MERGER, FILED THE SIXTEENTH DAY OF SEPTEMBER, A.D. 1997, AT 10 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID CERTIFICATES ARE THE ONLY CERTIFICATES ON RECORD OF THE AFORESAID LIMITED LIABILITY COMPANY, "MERITOR HEAVY VEHICLE SYSTEMS, LLC".

2794515 8100H

060516135



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 4781261

DATE: 05-30-06

PATENT
REEL: 018420 FRAME: 0936

Certificate of Formation

MERITOR HEAVY VEHICLE SYSTEMS, LLC

This Certificate of Formation is being executed as of September 9, 1997, for the purpose of forming a limited liability company pursuant to the Delaware Limited Liability Company Act.

The undersigned, being duly authorized to execute and file this Certificate of Formation, does hereby certify as follows:

1. The name of the limited liability company is Meritor Heavy Vehicle Systems, LLC (the "Company").

2. The Company's registered office in the State of Delaware is located at The Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801. The registered agent of the Company for service of process at such address is The Corporation Trust Company.

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Formation as of the day and year first above written.

MERITOR AUTOMOTIVE, INC.

By: David W. Greenfield
David W. Greenfield
Senior Vice President, General
Counsel and Secretary

NY2:15601301

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 09:00 AM 09/10/1997
971301227 - 2794515

PATENT
REEL: 018420 FRAME: 0937

PAGE 1

State of Delaware
Office of the Secretary of State

I, EDWARD J. FREEL, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"MERITOR HEAVY VEHICLE SYSTEMS, INC.", A DELAWARE CORPORATION,

WITH AND INTO "MERITOR HEAVY VEHICLE SYSTEMS, LLC" UNDER THE NAME OF "MERITOR HEAVY VEHICLE SYSTEMS, LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE SIXTEENTH DAY OF SEPTEMBER, A.D. 1997, AT 10 O'CLOCK A.M.

A CERTIFIED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS FOR RECORDING.



Edward J. Freel

Edward J. Freel, Secretary of State

2794515 8100M

AUTHENTICATION: 8652744

DATE: PATENT
REEL: 018420 FRAME: 0938

SEP 15 1991

CERTIFICATE OF MERGER

MERGING

MERITOR HEAVY VEHICLE SYSTEMS, INC.
(a Delaware corporation)

INTO

MERITOR HEAVY VEHICLE SYSTEMS, LLC
(a Delaware limited liability company)

Pursuant to Section 18-209 of the Delaware
Limited Liability Company Act and Section
264 of the Delaware General Corporation Law

MERITOR HEAVY VEHICLE SYSTEMS, LLC, a limited
liability company formed and existing under and by virtue of
the Delaware Limited Liability Company Act ("HVS LLC"), DOES
HEREBY CERTIFY that:

FIRST: HVS LLC is a limited liability company
formed and existing under the laws of the State of Delaware.
Meritor Heavy Vehicle Systems, Inc. ("HVS Inc.") is a
corporation organized and existing under the laws of the
State of Delaware.

SECOND: An Agreement and Plan of Merger between
HVS LLC and HVS Inc. providing for the merger of HVS Inc.
with and into HVS LLC has been approved, adopted, certified,
executed and acknowledged by each of HVS LLC and HVS Inc. in
accordance with the requirements of Section 18-209 of the

Delaware Limited Liability Company Act and Section 264 of the Delaware General Corporation Law.

THIRD: The name of the surviving limited liability company is Meritor Heavy Vehicle Systems, LLC.

FOURTH: The merger shall be effective upon the filing of this Certificate of Merger in the office of the Secretary of State of the State of Delaware.

FIFTH: The executed Agreement and Plan of Merger is on file at the principal place of business of HVS LLC. The address of the principal place of business of HVS LLC is 2135 West Maple Road, Troy, Michigan 98084.

SIXTH: A copy of the Agreement and Plan of Merger will be furnished by HVS LLC, on request and without cost, to any member of HVS LLC and any stockholder of HVS Inc.

IN WITNESS WHEREOF, MERITOR HEAVY VEHICLE SYSTEMS, LLC has caused this Certificate of Merger to be duly executed on this 15th day of September, 1997.

MERITOR HEAVY VEHICLE SYSTEMS, LLC

By: Brent E. Reed
Brent E. Reed
Vice President

Delaware

PAGE 1

The First State

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED ARE TRUE AND CORRECT COPIES OF ALL DOCUMENTS ON FILE OF "MERITOR HEAVY VEHICLE SYSTEMS, LLC" AS RECEIVED AND FILED IN THIS OFFICE.

THE FOLLOWING DOCUMENTS HAVE BEEN CERTIFIED:

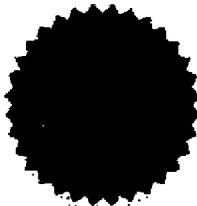
CERTIFICATE OF FORMATION, FILED THE TENTH DAY OF SEPTEMBER, A.D. 1997, AT 9 O'CLOCK A.M.

CERTIFICATE OF MERGER, FILED THE SIXTEENTH DAY OF SEPTEMBER, A.D. 1997, AT 10 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID CERTIFICATES ARE THE ONLY CERTIFICATES ON RECORD OF THE AFORESAID LIMITED LIABILITY COMPANY, "MERITOR HEAVY VEHICLE SYSTEMS, LLC".

2794515 8100H

060516135



Harriet Smith Windsor

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 4781261

DATE: 05-30-06

Certificate of Formation**MERITOR HEAVY VEHICLE SYSTEMS, LLC**

This Certificate of Formation is being executed as of September 9, 1997, for the purpose of forming a limited liability company pursuant to the Delaware Limited Liability Company Act.

The undersigned, being duly authorized to execute and file this Certificate of Formation, does hereby certify as follows:

1. The name of the limited liability company is Meritor Heavy Vehicle Systems, LLC (the "Company").
2. The Company's registered office in the State of Delaware is located at The Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801. The registered agent of the Company for service of process at such address is The Corporation Trust Company.

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Formation as of the day and year first above written.

MERITOR AUTOMOTIVE, INC.

By: David W. Greenfield
David W. Greenfield
Senior Vice President, General
Counsel and Secretary

STATE OF DELAWARE
SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 09:00 AM 09/10/1997
971301227 - 2794515

W215040

State of Delaware
Office of the Secretary of State

IN WITNESS WHEREOF, I have hereunto set my hand and the seal of the State of Delaware, this 19th day of October, 2006.



[Handwritten Signature]

Doc 615 Page 3

FILED
NOV 23 10 27 AM
2006
DELAWARE

FECOM CORPORATION TRUST CO. 1-802-555-5049

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SEP-15-1997

SECRETARY OF STATE
DIVISION OF CORPORATIONS
FILED 10:00 AM 08/16/1997
971308471 - 2794515

CERTIFICATE OF MERGER

MERGING

MERITOR HEAVY VEHICLE SYSTEMS, INC.
(a Delaware corporation)

INTO

MERITOR HEAVY VEHICLE SYSTEMS, LLC
(a Delaware limited liability company)

Pursuant to Section 18-209 of the Delaware
Limited Liability Company Act and Section
264 of the Delaware General Corporation Law

**MERITOR HEAVY VEHICLE SYSTEMS, LLC, a limited
liability company formed and existing under and by virtue of
the Delaware Limited Liability Company Act ("HVS LLC"), DOES
HEREBY CERTIFY that:**

**FIRST: HVS LLC is a limited liability company
formed and existing under the laws of the State of Delaware.
Meritor Heavy Vehicle Systems, Inc. ("HVS Inc.") is a
corporation organized and existing under the laws of the
State of Delaware.**

**SECOND: An Agreement and Plan of Merger between
HVS LLC and HVS Inc. providing for the merger of HVS Inc.
with and into HVS LLC has been approved, adopted, certified,
executed and acknowledged by each of HVS LLC and HVS Inc. in
accordance with the requirements of Section 18-209 of the**

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PAGE 009/009

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FROM CORPORATION TRUST CO. 1-802-855-5649

(TUE) 09. 16' 07 13:04/ST. 12:51/NO. 3560228539 P 3/3

Delaware Limited Liability Company Act and Section 264 of the Delaware General Corporation Law.

THIRD: The name of the surviving limited liability company is Meritor Heavy Vehicle Systems, LLC.

FOURTH: The merger shall be effective upon the filing of this Certificate of Merger in the office of the Secretary of State of the State of Delaware.

FIFTH: The executed Agreement and Plan of Merger is on file at the principal place of business of HVS LLC. The address of the principal place of business of HVS LLC is 2135 West Maple Road, Troy, Michigan 48064.

SIXTH: A copy of the Agreement and Plan of Merger will be furnished by HVS LLC, on request and without cost, to any member of HVS LLC and any stockholder of HVS Inc.

IN WITNESS WHEREOF, MERITOR HEAVY VEHICLE SYSTEMS, LLC has caused this Certificate of Merger to be duly executed on this *16th* day of September, 1997.

MERITOR HEAVY VEHICLE SYSTEMS, LLC

By: *Brent E. Reed*
Brent E. Reed
Vice President

HVS 10/19/06

TOTAL P. 04