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01-19-2005

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FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

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

1. Name of conveying party(ies):

MICHAEL E. RING

JAMES M. ZEMYAN

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

2. Name and address of receiving party(ies)

Name: WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION

Internal Address:

Street Address: 1001 AIR BRAKE AVENUECity: WILMERDING State: PA ZIP: 15148Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: January 5, 2005

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. Application No.(s):

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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

Name of Agent: James O. Ray, Jr.Name: JAMES RAY & ASSOCIATES

Internal Address:

Street Address: 2640 PITCAIRN ROADCity: MONROEVILLE State: PA ZIP: 15146

01/19/2005 ECDOPER 00000001 10983908

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 130.00

Enclosed

☒ Payment by credit card. Form PTO-2038 is attached

8. Deposit account number:

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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.

James O. Ray, Jr.

NAME OF PERSON SIGNING

SIGNATURE

1-12-05

DATE

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

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PATENT

REEL: 016148 FRAME: 0911

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) Michael E. Ring and James M. Zernyan (hereinafter ASSIGNORS) by

WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled:

SIMPLIFIED TRUCK MOUNTED BRAKE SYSTEM

for which application for Letters Patent of the United States was executed on even date herewith, and all Letters Patent of the United States and corresponding Foreign patents to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.


THE ASSIGNORS agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

THE ASSIGNORS agree(s) to execute all papers necessary in connection with any interference or litigation which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereof and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference or litigation.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).


MICHAEL E. RING

1/5/05
DATE


JAMES M. ZERNYAN

01/5/05
DATE