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

1. Name of conveying party(ies):

Kenji OGUMA, Atsushi KAWABATA, Korefumi
TASHIRO, Michio FUJIWARA, Shinya TANIFUJIAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No3. Nature of conveyance: **MRD 5-7-98**

- ☐ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: April 20, 1998

2. Name and address of receiving party(ies)

Name: HITACHI LTD

Internal Address: _____

Street Address: 6, KANDA SURUGADAI 4-CHOMECHIYODA-KU, TOKYO JAPAN

City: _____ State: _____ ZIP: _____

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: April 20, 1998

A. Patent Application No.(s)

09/073851

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP

Internal Address: _____

Street Address: 1300 NORTH SEVENTEENTH STREET
SUITE 1800City: ARLINGTON State: VA ZIP: 222096. Total number of applications and patents involved: **1**7. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

01-2135

(Attach duplicate copy of this page if paying by deposit account)

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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.

05/13/1998 WILLIAM 00000006 09073851

03 FC: Melvin Kraus **40.00 OP**
Name of Person Signing 22,466

Signature

May 7, 1998

Date

2

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

ASSIGNMENT

For good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, as a below named inventor, I hereby sell and assign to Hitachi, Ltd. of 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo 101-8010, Japan its successors and assigns or other legal representatives all my rights, title and interest, in and for the United States of America, in and to

A train detection system and a train detection method

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, ~~Said No. xxxxxxxxxx~~ executed by us even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi, Ltd.

, its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi, Ltd.

	(Full Name)	(Signature)
1) Date <u>April 20, 1998</u> Inventor <u>Kenji Oguma</u>		<u>Kenji Oguma</u>
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Witness(es)

All) Mami Yumagata 2) _____ 4) _____

1) _____ 3) _____ 5) PATENT

RECORDED: 05/07/1998

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