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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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

1. Name of conveying party(ies):
Nobuya ISHIOKA, Tetsuhiko YAMAGUCHI, Masaki SAZAWA
and Kenichi KITAMURAAdditional name(s) of conveying party(ies) attached?
___ yes ___ ☒ no

3. Nature of Conveyance:

☒ Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other

Execution Date: September 30, 1998

2. Name and address of receiving party(ies)?

Name:
SHOWA DENKO KABUSHIKI KAISHA
Internal Address:
13-9, Shiba Daimon 1-Chome, Minato-ku, Tokyo 105-8518, Japan
Street Address:
Same as above

City State Zip

Additional name(s) & address(es) attached?
___ yes ___ ☒ no

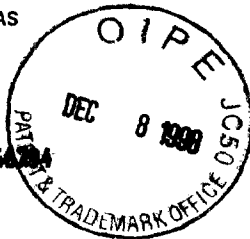
4. Application number(s) or patent number(s):

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

A. Patent Application No.(s)

09/166,794

B. Patent No(s).

Additional numbers attached? ___ Yes ___ ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-32026. Total number of applications and patents involved:
One (1)7. Total Fee (37 CFR 3.41): \$ 40.00
___ ☒ Enclosed. Please charge any underpayment in
connection with this Assignment to Deposit Account No. 19-
4880.

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8. Deposit Account No.

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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.

Name Waddell A. Biggart Reg. No. 24,861

December 8, 1998
Date

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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PATENT

REEL: 9679 FRAME: 0711

86-8-21/2000

12/14/1998 CHENG 00000111 194880 09164284
04 FC 581 40.00 CH

ASSIGNMENT

Whereas, I/we, (1) Nobuya ISHIOKA
(2) Tetsuhiko YAMAGUCHI
(3) Masaki SAZAWA
(4) Kenichi KITAMURA

of (1) c/o SHOWA DENKO KABUSHIKI KAISHA
13-9, Shiba Daimon 1-Chome, Minato-ku, Tokyo 105-8518, Japan
(2) c/o KAWASAKI RESEARCH LABORATORY, CENTRAL RESEARCH LABORATORY
SHOWA DENKO KABUSHIKI KAISHA
5-1, Ogimachi, Kawasaki-shi, Kanagawa 210-0867, Japan
(3) c/o TECHNICAL LABORATORY, KABUSHIKI KAISHA GAEART KUMAGAI
216-1, Kokinu, Yawaramura, Tsukuba-gun, Ibaraki-ken, Japan
(4) c/o TECHNICAL LABORATORY, KABUSHIKI KAISHA GAEART KUMAGAI
216-1, Kokinu, Yawaramura, Tsukuba-gun, Ibaraki-ken, Japan
hereinafter called assignor(s), have invented certain improvements in

Freeze-Preventing Material and Method for Preventing
Pavement Surface from Freezing

and executed an application for Letters Patent of the United States of America therefor on

September 30, 1998; and

Whereas, SHOWA DENKO KABUSHIKI KAISHA
13-9, Shiba Daimon 1-Chome, Minato-ku,
Tokyo 105-8518, Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention,
and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority
under 35 U.S.C. § 119, and I/we request the Commissioner of Patents to issue any Letters Patent
granted upon the invention set forth in the application to the assignee, its successors and assigns;
and I/we will execute without further consideration all papers deemed necessary by the assignee in
connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my/our attorneys SUGHRUE, MION, ZINN, MACPEAK
& SEAS, PLLC of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in
parentheses (Application number 09/166,794 , filed October 6, 1998) the filing
date and application number of said application when known.

Date: September 30, 1998

s/ Nobuya IshioKa
Nobuya ISHIOKA

Date: September 30, 1998

s/ Tetsuhiko Yamaguchi
Tetsuhiko YAMAGUCHI

Date: September 30, 1998

s/ Masaki Sazawa
Masaki SAZAWA

Date: September 30, 1998

s/ Kenichi Kitamura
Kenichi KITAMURA

Date:

s/ _____

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

RECORDED: 12/08/1998

PATENT
REEL: 9679 FRAME: 0712