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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):

Shinjiro HAYASHI (07/04/2006)
Hideki TSUCHIDA (07/04/2006)
Masaru KUSAKA (07/07/2006)
Koichi YOMOGIDA (07/04/2006)Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

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

Execution Date(s): in parentheses after inventor name

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

2. Name and address of receiving party(ies)

Name: Rohm and Haas Electronic Materials LLCInternal Address: Patent Department

Street Address:

455 Forest Street

City: MarlboroughState: MassachusettsCountry: USA Zip: 01752Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

A. Patent Application No.(s)
This application☒ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: S. Matthew Cairns
ROHM AND HAAS ELECTRONIC
MATERIALSInternal Address: Atty. Dkt.: 52448
Street Address: 455 Forest Street

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ 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 _____
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9. Signature:

S. Matthew Cairns
Signature

07/07/2006

Date

S. Matthew Cairns

Name of Person Signing

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

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I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the U.S. Postal Service as Express Mail, Label No. EQ008444380US, on the date shown below in an envelope addressed to:
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Dated: 07/07/2006

Signature: Deanna M. Rivnerider (Deanna M. Rivnerider)113000 U.S. PTO
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PATENT

REEL: 018093 FRAME: 0228

Attorney Docket No. 52448

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ASSIGNMENT

WHEREAS, I, Shinjiro HAYASHI of Saitama, Japan, I, Hideki TSUCHIDA of Saitama, Japan, I, Masaru KUSAKA of Saitama, Japan and I, Koichi YOMOGIDA of Saitama, Japan, (hereinafter referred to as "Assignors"), have invented certain new and useful improvements in "PLATING METHOD", for which an application for United States Letters Patent with the same title was filed with the United States Patent and Trademark Office on 07/07/2006 and assigned United States Patent Application Serial No. _____, which application corresponds to and claims priority of United States Provisional Application Serial No. 60/697,833, filed July 8, 2005; and

WHEREAS, Rohm and Haas Electronic Materials LLC, located at 455 Forest Street, Marlborough, Massachusetts 01752, (hereinafter referred to as the "Assignee"), is desirous of acquiring the entire right, title and interest in and to the same invention, and in and to the said application, and any Letters Patent that may issue thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for the above consideration, the Assignors have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest for the United States in and to the said invention and in and to the said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, and all applications claiming priority therefrom; and the Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as their interest is concerned, to the Assignee; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors also have assigned and transferred, and do hereby assign and transfer to the Assignee, its successors and assigns, their entire right, title and interest in and to the invention disclosed in said application, in all countries of the world foreign to the United States, including the right to file applications and obtain patents for said invention in its own name in said countries and including all rights of priority in said countries under the terms of any applicable international convention; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, to the same extent as the Assignors would hold and enjoy if this Assignment had not been made.

The Assignors further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agree, at the request of the Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Assignee, its successors and assigns, to obtain, maintain and enforce patent protection for said invention in all countries.

Attorney Docket No. 52448

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The Assignors also hereby grant the Patent Law Department of Rohm and Haas Electronic Materials LLC the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, the Assignors have caused this Assignment to be executed.

Effective from the date of: 07/08/2005.

Signatures

Date

- | | |
|--|------------------------|
| 1. <u>Shinjiro Hayashi</u>
Shinjiro HAYASHI | <u>July 4th, 2006</u> |
| 2. <u>Hideki Tsuchida</u>
Hideki TSUCHIDA | <u>July, 4th, 2006</u> |
| 3. <u>Masaru Kusakabe</u>
Masaru KUSAKA | <u>July, 9th, 2006</u> |
| 4. <u>Koichi Yomogida</u>
Koichi YOMOGIDA | <u>July 4, 2006</u> |

PATENT

RECORDED: 07/07/2006

REEL: 018093 FRAME: 0230