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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):
MATSUZAWA, JUN
SUGIMOTO, ATSUSHI
YOSHIDA, MASATO
HIRAI, KEIZO
ASHIZAWA, TORANOSUKE
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)
Name: **HITACHI CHEMICAL CO., LTD.**
Internal
Address: _____
Street Address: **1-1, Nishishinjuku 2-chome,**
Shinjuku-Tokyo 163-0449, Japan

City: _____ State: _____ Zip: _____

3. Nature of conveyance:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: **November 22, 2001.**

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: **November 22, 2001.**
A. Patent Application No.(s) B. Patent Registration No.(s)

12/03/2001
04 FC:581

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40.00

Additional number(s) 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:

1300 North Seventeenth Street
Suite 1800
Arlington, VA 22209
USA

City: _____ State: _____ Zip: _____

6. 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

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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.

Ralph T. Webb, Reg.# 33,047

11/28/2001

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **3**

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Commissioner of Patent & Trademarks, Box Assignments
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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 CHEMICAL CO., LTD. of 1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0449 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

METHOD FOR PRODUCING CERIUM OXIDE, CERIUM OXIDE ABRASIVE, METHOD FOR POLISHING SUBSTRATE USING THE SAME, AND METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE

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, executed by me 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 CHEMICAL CO., LTD., its successors, assigns or other legal representatives, to the full end of the 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 CHEMICAL CO., LTD.

- | | (Full Name) | (Signature) |
|---------------------------------|---|----------------------------|
| 1) Date <u>22/November/2001</u> | Inventor <u>Jun MATSUZAWA</u> | <u>Jun Matsuzawa</u> |
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| 2) Date <u>22/November/2001</u> | Inventor <u>Atsushi SUGIMOTO</u> | <u>Atsushi Sugimoto</u> |
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Witness(es)

- All) M. Yoshida 2) _____ 4) _____
- 1) _____ 3) _____ 5) _____

(Full Name)

(Signature)

Date 22/November/2001 Inventor Yuuto OOTSUKI *Yuuto Ohtsuki*

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