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Attorney Docket No. 389.44535X00

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

1. Name of conveying party(ies):

HIRASAWA, Shigeki
IKEGAWA, Masato
ISHIBASHI, Hiroyuki
GUNJI, Akihiro

2. Name and address of receiving party(ies)

Name: **HITACHI CHEMICAL CO., LTD.**

Internal
Address:

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Street Address: 1-1, Nishishinjuku 2-chome, Shinjuku-ku,
Tokyo 160-0023, Japan

City: State: Zip:

Execution Date: **11/24/04; 11/29/04; 12/7/04; 12/7/04.**

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: **11/24/04; 11/29/04; 12/7/04; 12/7/04.**

A. Patent Application No.(s)

B. Patent Registration No.(s)

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 17TH STREET - SUITE 1800

City: **ARLINGTON** State: **VA** Zip **22209**

6. Total number of applications and patents involved **1**

7. Total fee (37 CFR 3.41)..... **\$40**

☒ Enclosed

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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.

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12/13/2004

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PATENT
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ASSIGNMENT

(讓渡証)

IN CONSIDERATION of the sum of One Dollar (\$1 .00) or the equivalent thereof, and other good and valuable consideration paid to Shigeki HIRASAWA, Masato IKEGAWA, Hiroyuki ISHIBASHI, and Akihiro GUNJI, citizens of Japan by HITACHI CHEMICAL CO., LTD., corporations organized under the laws of Japan, located at 1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 160-0023 Japan, respectively, receipt of which is hereby acknowledged, we, the said Shigeki HIRASAWA, Masato IKEGAWA, Hiroyuki ISHIBASHI, and Akihiro GUNJI, do hereby sell and assign to said HITACHI CHEMICAL CO., LTD., their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

APPARATUS AND METHOD FOR PRODUCING SINGLE CRYSTAL

invented by us and described in the application for United States Letters Patent therefor, executed on 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., their 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 us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said 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 we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI CHEMICAL CO., LTD.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

(発明者フルネームサイン)

Date signed

(署名日)

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Shigeki HIRASAWA

Nov. 24, 2004

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Nov. 29, 2004

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Dec. 7, 2004

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