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Attorney Docket Number  
7426-068TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS  
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Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Naoki FUKUTOMI, Yoshiaki WAKASHIMA,  
Susumu NAOYUKI, and Akinari KIDAAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Date: September 13, 16, 21 and 17, 1999

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

Name: Hitachi Chemical Co., LtdAddress: 1-1, Nishishinjuku 2-chome,  
Shinjuku-ku,Tokyo 163-0449 JAPANCountry (if other than USA): JAPAN

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: September 13, 16, 21 and 17, 1999A. Patent Application No. (s) **filed herewith**

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence  
concerning document should be mailed:PENNIE & EDMONDS LLP  
1155 Avenue of the Americas  
New York, NY 100366. Number of applications  
and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00  
Please charge to the deposit account listed in Section 8.8. Deposit account number:  
16-1150

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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.*Charles E. Miller 24,576

Name of Person Signing Reg. No.

Signature

October 29, 1999

Date

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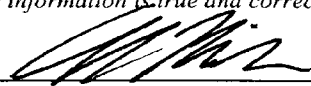
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Attorney Docket Number  
**7426-068**

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS  
Box Assignment  
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Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): <b>Naoki FUKUTOMI, Yoshiaki WAKASHIMA, Susumu NAOYUKI, and Akinari KIDA</b> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		<p>2. Name and address of receiving party(ies): Name: <b>Hitachi Chemical Co., Ltd</b> Address: <b>1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0449 JAPAN</b> Country (if other than USA): <b>JAPAN</b></p>	
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <b>September 13, 16, 21 and 17, 1999</b></p>			
<p>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: <b>September 13, 16, 21 and 17, 1999</b> A. Patent Application No. (s) <b>filed herewith</b> B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>			
<p>5. Name and address of party to whom correspondence concerning document should be mailed: <b>PENNIE &amp; EDMONDS LLP 1155 Avenue of the Americas New York, NY 10036</b></p>		<p>6. Number of applications and patents involved: <b>1</b> 7. Total fee (37 CFR 3.41):.....\$ <b>40.00</b> Please charge to the deposit account listed in Section 8. 8. Deposit account number: <b>16-1150</b></p>	
<b>DO NOT USE THIS SPACE</b>			
<p>9. Statement and signature. <i>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.</i> <b>Charles E. Miller 24,576</b>  <b>October 29, 1999</b> Name of Person Signing Reg. No. Signature Date Total number of pages including cover sheet: <b>3</b></p>			

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Washington, D.C. 20231

JOINT

# ASSIGNMENT

WHEREAS, WE, Naoki Fukutomi, Yoshiaki Wakashima, Susumu Naoyuki, Akinari Kida  
ASSIGNORS, citizens of Japan, residing at 8463-5, Yuki, Yuki-shi, Ibaraki-ken 307-0001 Japan; 1-3-1, Hosoyama, Asao-ku, Kawasaki-shi, Kanagawa-ken 215-0001 Japan; 7188-32, Yuki, Yuki-shi, Ibaraki-ken 307-0001 Japan; and 5324-12, Tomonuma, Nogicho, Shimotsuga-gun, Tochigi-ken 329-0101 Japan, respectively  
are the inventors of the invention in SUBSTRATE FOR MOUNTING SEMICONDUCTOR CHIP, METHOD OF FABRICATING THE SUBSTRATE AND SEMICONDUCTOR DEVICE

for which we have executed an application for a Patent of the United States

- ☐ on even date herewith and/or which is identified by Pennie & Edmonds docket no. \_\_\_\_\_  
☒ which was filed on April 30, 1998, as PCT International Application PCT/JP98/01970

and WHEREAS, Hitachi Chemical Company, Ltd.,  
whose address is 1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0449, Japan,  
ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the property rights under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States to issue any and all patents and other evidence or forms of industrial property protection on applications as aforesaid, to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention.

IN TESTIMONY WHEREOF, we hereunto set our hands and seals the day and year set below our respective signatures.

Naoki Fukutomi L.S.  
[Name] Naoki FUKUTOMI  
September 13, 1999  
[Date]

Signed and sworn to before me  
this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_

\_\_\_\_\_  
[Notary Public or U.S. Diplomatic or Consular Official]  
[continued on page 2]

## JOINT

\_\_\_\_\_  
[Name] Yoshiaki WAKASHIMA L.S.

Yoshiaki Wakashima  
[Date]

September 16, 1999

Signed and sworn to before me  
this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_

\_\_\_\_\_  
[Notary Public or U.S. Diplomatic or Consular Official]

\_\_\_\_\_  
[Name] Susumu NAOYUKI L.S.

Susumu Naoyuki  
[Date]

September 21, 1999

Signed and sworn to before me  
this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_

\_\_\_\_\_  
[Notary Public or U.S. Diplomatic or Consular Official]

\_\_\_\_\_  
[Name] Akinari KIDA L.S.

Akinari Kida  
[Date]

September 17, 1999

Signed and sworn to before me  
this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_

\_\_\_\_\_  
[Notary Public or U.S. Diplomatic or Consular Official]