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TRANSMIT



ATTORNEY

Atty. Docket: 35.C12869

To the Assistant Commissioner for

100956973

all documents or copy thereof.

1. Name of conveying party(ies):  
TADAHIRO OHMI, NOBUYOSHI TANAKA, TAKEO USHIKI, TOSHIKUNI SHINOHARA and TAKAHISA NITTA

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

Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: 1/20/99, 1/6/99, 1/8/99 and 12/24/98 respectively

2. Name and address of receiving party(ies):  
Name: TADAHIRO OHMI, ULTRACLEAN TECHNOLOGY RESEARCH INSTITUTE and CANON KABUSHIKI KAISHA

Foreign Address: 1-17-301, Komegafukuro 2-chome, Aoba-ku, Sendai-shi, Miyagi-ken, Japan

1-4, Hongo 4-chome, Bunkyo-ku, Tokyo, Japan

30-2, 3-chome, Shimomaruko, Ohta-ku, Tokyo, Japan, respectively

Domestic Address: \_\_\_\_\_

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 Number: 09/123,364  
Filing Date: July 28, 1998

Additional numbers attached?  Yes  No

B. Title of Invention: SEMICONDUCTOR SUBSTRATE AND METHOD OF PREPARING THE SAME

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Fitzpatrick, Cella, Harper & Scinto  
30 Rockefeller Plaza  
New York, New York 10112-3801

Telephone No.: (212) 218-2100  
Facsimile No.: (212) 218-2200

6. Number of applications and patents involved:  
One

7. Total fee (37 CFR 3.41): . . \$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number (for deficiency or excess):  
06-1205  
(Attach duplicate copy of this page if paying by deposit account):

02/02/1999 DNGUYEN 00000020 09123364

01 FC:581 40.00 DP

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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and the attached is the original document or is a true copy of the original document.*

Leonard P. Diana [Signature] January 27, 1999  
Name of Person Signing Signature Date

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

JOINT

(AFTER APPLICATION FILED)

**ASSIGNMENT OF PATENT RIGHTS FOR THE UNITED STATES**

FOR VALUE RECEIVED, WE, NOBUYOSHI TANAKA, TAKEO USHIKI,  
TOSHIKUNI SHINOHARA and TAKAHISA NITTA

citizens of Japan

residing respectively at 15-13, Matsubara 2-chome, Setagaya-ku, Tokyo, Japan;  
#318, Sendaigakuseikoryukaikan, 10-15, Sanjo-machi, Aoba-ku,  
Sendai-shi, Miyagi-ken, Japan;  
2-44-303, Odawara 2-chome, Miyagino-ku, Sendai-shi, Miyagi-ken, Japan;  
and  
5-21, Kitayama-cho 1-chome, Fuchu-shi, Tokyo, Japan

hereby sell, assign, transfer and convey unto ULTRACLEAN TECHNOLOGY RESEARCH INSTITUTE  
a corporation of Japan

having a place of business at 1-4, Hongo 4-chome, Bunkyo-ku, Tokyo, Japan  
and CANON KABUSHIKI KAISHA

a corporation of Japan

having a place of business at 30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo, Japan

the successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for the  
United States, in and to certain inventions relating to

**SEMICONDUCTOR SUBSTRATE AND METHOD OF PREPARING THE SAME**

and described in an application for Letters Patent of the United States filed by us and TADAHIRO OHMI  
on July 28, 1998 and which has been accorded Application No. 09/123,364  
and in and to said application, and all divisions, renewals and continuations thereof, and all Letters Patent of the United  
States which may be granted, thereon, and all reissues and extensions thereof; and we hereby authorize and request the  
Commissioner for Patents and Trademarks of the United States to issue all Letters Patent upon said inventions to the  
Assignee or to such nominees as it may designate.

AND we authorize and empower the said Assignee or nominees to invoke and claim for any application for patent  
or other form of protection for said inventions, the benefit of the right of priority provided by the International Convention  
for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and  
to invoke and claim such right of priority without further written or oral authorization from us.

AND we hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any  
assignment, consent to file or like document which may be required in the United States for any purpose and more  
particularly in proof of the right of said Assignee or nominees to claim the aforesaid benefit of the right of priority provided  
by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may  
henceforth be substituted for it.

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

AND we hereby covenant and agree that we will communicate to said Assignee or nominees all facts known to  
us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional,

continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent protection for said inventions in the United States.

By:   
NOBUYOSHI TANAKA

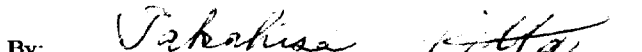
Date: Jan. 20 1999

By:   
TAKEO USHIKI

Date: January 6, 1999

By:   
TOSHIKUNI SHINOHARA

Date: January 8, 1999

By:   
TAKAHISA NITTA

Date: December 24, 1998