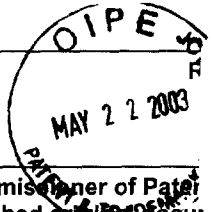


05-28-2003

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 4329.3021
Attorney Customer Number: 22,852



1,02458078

To the Honorable Commissioner of Patents
Please record the attached original document.

ATTN: BOX ASSIGNMENTS RECORDATION
SERVICES

1. Name of conveying parties: 1) Tetsuya KUROSAWA 2) Shinya TAKYU 3) Ninao SATO	5-22-03	2. Name and address of receiving party: Name: Kabushiki Kaisha Toshiba
--	---------	---

Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Internal Address:
--	-------------------

3. Nature of conveyance:	Street Address: 1-1 Shibaura 1-chome, Minato-ku, Tokyo, Japan
--------------------------	--

<input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger	City:
--	-------

<input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name	State:	Zip Code:
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<input type="checkbox"/> Other:	Additional name(s) & Address(es) attached?
---------------------------------	--

Execution Date: May 12, 2003	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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:

A. Patent Application Number: 10/390,900	B. Patent Number(s):
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and registrations involved: 1
---	--

Name: Mr. Ernest F. Chapman	7. Total fee (37 CFR 3.41): \$40 <input checked="" type="checkbox"/> Enclosed (Please charge deficiency to deposit account) <input type="checkbox"/> Authorized to be charged to deposit account
-----------------------------	--

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.	8. Deposit Account No.: 06-0916
Street Address: 1300 I Street, N.W.	
City: Washington, D.C.	

State: Zip: 20005-3315	
------------------------	--

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.

Richard V. Burgujian
Reg. No. 31,744

5/22/03
Date

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

05/27/2003 ECOOPER 00000078 10390900
01 FC:0021 40.00 00

A S S I G N M E N T

In consideration of value received, I, having a mailing address at c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

SEMICONDUCTOR WAFER DIVIDING APPARATUS AND SEMICONDUCTOR DEVICE MANUFACTURING METHOD

said application having been filed on March 19, 2003 and assigned Application No. 10/390,900 ;
sell and assign to
KABUSHIKI KAISHA TOSHIBA
a corporation of Japan, having a business address at
1-1 Shibaura 1 chome, Minato-Ku, Tokyo, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent: (check one)

executed concurrently herewith;

executed separately herefrom:

and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U. S. Patent and Trademark Office for recordation of this document.

Finnegan, Henderson, Farabow, Garrett & Dunner, L. L. P.,
1300 I Street, N.W., Washington, D. C., 20005-3315

ASSIGNMENT

02S1512-1

Inventor: (Signature) Date Residence

Tetsuya Kurosawa MAY. 12. 2003 Yokohama-shi, Japan
Tetsuya Kurosawa

Shinya Takyu MAY. 12. 2003 Kitakatsushika-gun, Japan
Shinya Takyu

Ninao Sato MAY. 12. 2003 Mitaka-shi, Japan
Ninao Sato

RECORDING OFFICER:
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