PTO-1595 RI	07-10-2002	SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
To the Honorable Commissioner of Patern	<u> 102150009</u>	ached original documents or copy thereof.
1 Name of conveying party(ies):  Chung-Ju Hsieh Hsi-Wen Liao Yi-Ming Lin	-26-0} Taiw. No. 1 Scier	and address of receiving party(ies):  an Semiconductor Manufacturing Could be a semiconductor Ma
3 Nature of conveyance:  ■ Assignment	•	nal name(s) & address(es) attached □ Yes ⊠ No
<ul> <li>4 Application number(s) or patent number</li> <li>If this document is being filed together</li> <li>A. Patent Application No(s).</li> </ul>	with a new application, the execution	on date of the application is: <u>05-13-02</u> tent No(s)
5 Name and address of party to whom concerning document should be mailed		res ⊠ No number of applications and patents involved:
RANDY W. TUNG Tung & Associates 838 W. Long Lake Road Suite 120 Bloomfield Hills Michigan 48302 03/2002 MANNED1 00/00017 10180653 FC:581 40.00 pp	7 Total f	fee (37 CFR 3.41) \$40.00  Enclosed  Authorized to charge credit card (w/filing fee)  sit Account Number: 50-0484  th duplicate copy of this page if paying by deposit ant)
9 Statement and signature.  To the best of rny knowledge and bel.	DO NOT USE THIS SPACE	
the original document.  Randy W. Tung  Name of Person Signing  Registration No. 31,311	Signature  Total number of pages in the page of the pa	Date Date ncluding cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

## **ASSIGNMENT**

WHEREAS, we, <u>CHUNG-JU HSIEH</u>, <u>HSI-WEN LIAO</u> and <u>YI-MING LIN</u>, have invented certain improvements in

Z-AXIS MONITORING APPARATUS FOR ROBOT BLADE

for which we are about to make application for Letters Patent of the United States; and

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of No. 121, Park Avenue 3, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C, is desirous of acquiring the entire right, title and interest in and to said invention;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, CHUNG-JU HSIEH, HSI-WEN LIAO and YI-MING LIN, by these presents, do hereby sell, assign and transfer unto the said corporation and its assigns, for the territory of the United States of America and all foreign countries, the entire right, title and interest, including all priority rights under the International Convention associated with each country of the Union, in and to said invention as described in the patent application executed by us on the 13 the day of May, 2002, preparatory to obtaining Letters Patent of the United States thereon, and in and to said application and any Letters Patent that may be granted in pursuance of said application and any divisional, continuation or continuation-in-part application thereof, and in and to any reissue of any such patent, and in and

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to any patent applications which may be filed on said invention in countries foreign to the United

States and any Letters Patent granted thereon.

We further authorize said corporation to apply for foreign patents on said invention

in its own name or through its designees, including subsidiaries, related companies or assignees,

under the International Convention or otherwise, and we further agree to execute all papers,

including those required for the United States and foreign applications, and to perform such other

proper acts as said corporation or its designees the rights herein assigned.

TUNG &: ASSOCIATES 838 W. Long Lake Road Suite 120

Bloomfield Hills, Michigan 48302

RECORDED: 06/26/2002

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