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Original documents or copy thereof.

To the Honorable Commissioner of Patents

1. Name of conveying party(ies):

Wei-Chieh HSU

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

3. Nature of conveyance:

☒ Assignment

Execution Date: 10/18/99

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

Name: **Vanguard International Semiconductor Corporation**

Street Address: **123, Park Ave-3rd, Science-Based Industrial Park**

City: **Hsinchu** State: **Taiwan, R.O.C.** Zip: **30077**

09/431726

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: 10/18/99

A. Patent Application No.(s)

EXPRESS MAIL CERTIFICATE

Date: 11/1/99 Label No. 595862894

B. Patent No. (s)
I hereby certify that, on the date indicated above I deposited this paper or fee with the U.S. Postal Service & that it was addressed for delivery to the Commissioner of Patents & Trademarks, Washington D.C. 20231 by "Express Mail Post Office to Addressee" service.

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Darby & Darby P.C.

Internal Address: Ya-Chiao Chang

Street Address: 805 Third Avenue, 27th Floor

City: New York State: New York Zip: 10022-7513

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

04-0100

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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.

Ya-Chiao Chang

Name of Person Signing

Signature

November 1, 1999

Date

Total number of pages including cover sheet, attachments, and document:

2

Mail documents to be recorded with required cover sheet information to:
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PATENT
REEL: 010373 FRAME: 0045

ASSIGNMENT

WHEREAS, Wei-Chieh HSU
hereafter referred to as ASSIGNOR, has/have invented certain new and useful improvements
as described and set forth in the below identified application for United States Letters Patent:

Title: DRESSING APPARATUS FOR CHEMICAL MECHANICAL POLISHING PAD
Filed: _____ Serial No. _____
Executed on: October 18, 1999

WHEREAS, Vanguard International Semiconductor Corporation of
123, Park Ave-3rd, Science - Based Industrial Park, Hsinchu, Taiwan
30077, R.O.C. hereinafter referred to as ASSIGNEE, is desirous of acquiring
ASSIGNOR'S interest in the said invention and application and in any U.S. Letters Patent
which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for
good and valuable consideration, receipt of which is hereby acknowledged by Assignor,
Assignor has/have sold, assigned and transferred, and by these presents does/do sell, assign
and transfer unto the said Assignee, and Assignee's successors and assigns, all his/her/their
rights, title and interest in and to the said invention and application and all future
improvements thereon, and in and to any Letters Patent which may hereafter be granted on
the same in the United States, the said interest to be held and enjoyed by said Assignee as
fully and exclusively as it would have been held and enjoyed by said Assignor had this
Assignment and transfer not been made, to the full end and term of any Letters Patent which
may be granted thereon, or of any division, renewal, continuation in whole or in part,
substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees/agree that he/she/they will, without charge to said
Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said
application and/or applications, execute, verify, acknowledge and deliver all such further
papers, including applications for Letters Patent and for the reissue thereof, and instruments
of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may
request, to obtain or maintain Letters Patent for said invention and improvement, and to vest
title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has/have signed his/her/their name(s) on the
date(s) indicated.

Wei-Chieh HSU

Wei-Chieh HSU

Oct. 18 '99

Date: