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U.S. DEPARTMENT OF COMMERCE
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Customer No. 23910

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Charles A. Miller and Jim Chih-Chiang Tseng

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

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

Name: FormFactor, Inc.Address: 7005 South Front RoadLivermore, CA 94551Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: January 31, 2005

4. Application number(s) or patent number(s):

A. Patent Application No.: Unassigned

B. Confirmation No.: Unassigned

Title: METHOD OF ESTIMATING CHANNEL
BANDWIDTH FROM A TIME DOMAIN
REFLECTOMETER (TDR) MEASUREMENTFiled Date: Herewith

C. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

If this document is being filed together with a new application, the execution date of the application is: ??

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

Name: Thomas A. WardAddress: Fliesler Meyer LLPFour Embarcadero Center, Fourth FloorSan Francisco, CA 94111Telephone: (415) 362-38006. Total Number of applications and patents involved: 1 X \$40.00 each7. Total fee (37 CFR 3.41).....\$ 40.00☐ Check Enclosed

8. Fee Authorization. Authorization is given to charge any additional fees or credit any overpayment to Deposit Account No. 06-1325.

Copy. (A duplicate copy of this authorization is not enclosed.)

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.*Thomas A. WardAttorney (Reg. No.: 35,732)

Signature

January 31 2005

Date

10. Total number of pages to be recorded: 3 (1 page cover sheet and 2 page document).112897 U.S. PTO
11/048383

013105

02/14/2005 EC00PER 00000029 061325 11048383

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to FormFactor, Inc., a Delaware corporation, having a place of business at 7005 Southfront Road, Livermore, CA 94551 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

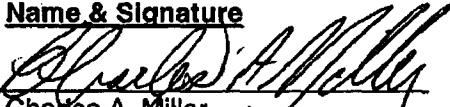
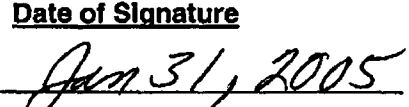
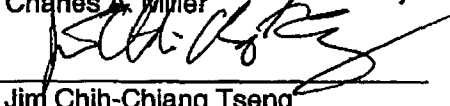
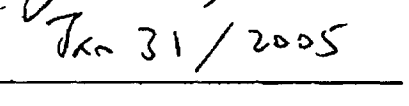
1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the application for United States Letters Patent entitled: **Method Of Estimating Channel Bandwidth From A Time Domain Reflectometer (TDR) Measurement** ("APPLICATION"), which:
☒ is to be filed herewith
☐ was filed on __, now bearing U.S. Serial No.: _____
and for which a Declaration was executed by INVENTOR on the date(s) below; and
2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION, including any right of priority; (b) any divisional, continuation, substitute, renewal, reissue, and other related applications which have been or may be filed in the United States or elsewhere in the world; and (c) any patents which may be granted on the applications set forth in (a) and (b) above.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the right, title, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

<u>Name & Signature</u>	<u>Date of Signature</u>	<u>Execution Date of Declaration</u>
 Charles A. Miller	 Jan 31, 2005	January 31, 2005
 Jim Chih-Chiang Tseng	 Jan 31 / 2005	January 31, 2005

Title of Document: Assignment for P212-US

Inventor(s): Charles A. Miller et al.

Title of Application: Method Of Estimating Channel Bandwidth From A Time Domain Reflectometer
(TDR) Measurement

Application No. Unknown

CALIFORNIA ALL-PURPOSE ACKNOWLEDGEMENT

State of California

County of Alameda

On Jan. 31, 2005 before me, Patti Crowder, Notary Public, personally appeared Charles A. Miller personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

[SEAL]



WITNESS my hand and Official Seal

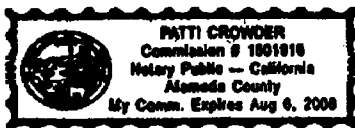
Patti Crowder

State of California

County of Alameda

On Jan. 31, 2005 before me, Patti Crowder, Notary Public, personally appeared Jim Chih-Chiang Tseng personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

[SEAL]



WITNESS my hand and Official Seal

Patti Crowder