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U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

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

1. Name(s) of conveying party(ies):

- 1) RAED MOUGHABGHAB
- 2) NAJWA MOUGHABGHAB
- 3)
- 4)
- 5)
- 6)

Additional names of conveying parties attached? ☐ Yes ☒ No

2. Name and address of receiving party:

Name: MINDSPEED TECHNOLOGY, INC.

Internal Address: \_\_\_\_\_

Street Address: 4000 MACARTHUR BLVD

City: NEWPORT BEACH State CA

Zip: 92660

Additional names & addresses attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Dates:

- 1) AUGUST 3, 2004 4) \_\_\_\_\_
- 2) AUGUST 3, 2004 5) \_\_\_\_\_
- 3) \_\_\_\_\_ 6) \_\_\_\_\_

4. Application number(s) or patent number(s): ☒ This document is being filed together with a new application.

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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

Name: DORSEY & WHITNEY LLP

Internal Address: MICHAEL A. RAHMAN

SUITE 3400

Street Address: 1420 FIFTH AVENUE

City: SEATTLE State: WA ZIP: 98101

6. Total number of applications and patents involved.....

One (1)

7. Total Fee (37 CFR 3.41): .....

\$40

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

50-1266

09/01/2004 WASFAW1 00000059 10929053

03 FC:8021

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9. Statement and signature.

MICHAEL A. RAHMAN

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 4

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

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PATENT  
REEL: 015746 FRAME: 0805

## ASSIGNMENT

WHEREAS, we, Raed Moughabghab, and Najwa Moughabghab (hereinafter referred to as ASSIGNORS), having post office addresses of 19 Saint Maxime, Laguna Niguel, CA 92677, and 19 Saint Maxime, Laguna Niguel, CA 92677, respectively, are the joint inventors of an invention entitled "DYNAMIC RANGE SIGNAL TO NOISE OPTIMIZATION SYSTEM AND METHOD FOR RECEIVER," as described and claimed in the specification forming part of an application for United States letters patent executed herewith;

WHEREAS, Mindspeed Technology, Inc. (hereinafter referred to as ASSIGNEE), a corporation of the State of Delaware having a place of business at 4000 Macarthur Boulevard, Newport Beach, California 92660, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

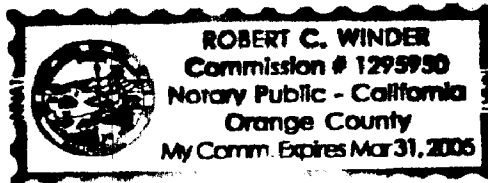
NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner for Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters

patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Date 08/03/2004 \_\_\_\_\_  
 State of California )  
 County of Orange ) ss.  
 Raed Moughabghab

I certify that I know or have satisfactory evidence that Raed Moughabghab is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated August 3, 2004  
 Signature of Notary Public Robert C. Winder  
 Printed Name Robert C. Winder  
 My appointment expires March 31, 2005



08/03/2004  
Date

Najwa Moughabghab  
Najwa Moughabghab

State of California )  
County of Orange ) ss.

I certify that I know or have satisfactory evidence that Najwa Moughabghab is the person who appeared before me, and said person acknowledged that she signed this instrument and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated August 3, 2004  
Signature of Notary Public Robert C. Winder  
Printed Name Robert C. Winder  
My appointment expires March 31, 2005

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