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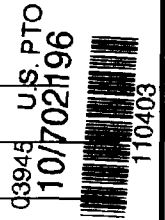
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To the Honorable Commission of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
**Bill Bereza, Mashkoo Baig, Shoujun Wang,
Haitao Mei, and Tad Kwasniewski**
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Altera Corporation
Internal Address: _____
Street Address: 101 Innovation Drive
City: San Jose State: CA ZIP: 95134
Additional name(s) & address(es) attached? Yes No



3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 10/17/03, 10/17/03, 10/16/03, 10/17/03, and
10/16/03 respectively

4. Application number(s) or patent number(s): 10702196
If this document is being filed together with a new application, the execution date of the application is: 10/17/03, 10/17/03,
10/16/03, 10/17/03 and 10/16/03

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: Robert R. Jackson
Internal Address: c/o Fish & Neave
50th Floor
Street Address: 1251 Avenue of the Americas

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:
06-1075
(Attach duplicate copy of this page if paying by deposit account)

11/13/2003 City: New York State: NY ZIP: 10020

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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.
Robert R. Jackson Robert R. Jackson November 4, 2003
Name of Person Signing Signature Date

Reg. No. 26,183

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

3

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

Express Mail No.
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PATENT
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ASSIGNMENT

WHEREAS, we,

- (1) Bill Bereza,
- (2) Mashkoor Baig,
- (3) Shoujun Wang,
- (4) Haitao Mei, and
- (5) Tad Kwasniewski,

residing, respectively, at

- (1) 6 Lindhurst Cr., Nepean, Ontario, Canada K2G 0T7,
 - (2) 9, 132 Woodridge Cr., Ottawa, Ontario, Canada K2B 7S9,
 - (3) 218-25 Woodridge Crescent, Nepean, Ontario, Canada K2B 7T4
 - (4) 118 Beech Street, Apt. 305, Ottawa, Ontario, Canada K1S 3K2,
- and
- (5) 460 Highcroft Avenue, Ottawa, Ontario, Canada K1Z 5J2,

have made an invention entitled:

ADAPTIVE COMMUNICATION METHODS AND APPARATUS;



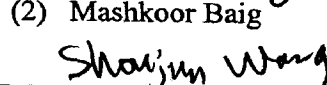
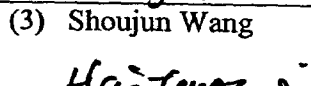
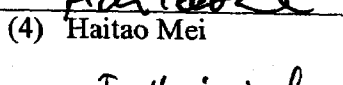
and are about to make application for United States Letters Patent therefor, the same being executed by us on even date(s) herewith; and

WHEREAS, Altera Corporation, a corporation organized and existing under the laws of Delaware and having an office and place of business at 101 Innovation Drive, San Jose, CA 95134, is desirous of acquiring the entire interest in said invention, said United States patent application, and in any Letters Patent which may issue thereon;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to us paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we do hereby sell, assign, and transfer unto the said Altera Corporation, its successors, assigns, and legal

representatives, all right, title, and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said application, including any continuations and divisions thereof, and any substitute applications therefor, and any patent which may issue thereon, and any reissues of the same; and all right, title, and interest in and to every patent application filed on said invention in any other country, including renewals, revivals, continuations, and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same; and we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said Altera Corporation as the assignee of the entire interest therein; and we further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and otherwise to give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter:

<u>17/10/2003</u> Date	<u></u> (1) Bill Bereza
<u>17/10/2003</u> Date	<u></u> (2) Mashkoor Baig
<u>10/16/03</u> Date	<u></u> (3) Shoujun Wang
<u>Oct. 17. 2003</u> Date	<u></u> (4) Haitao Mei
<u>10/16/03</u> Date	<u></u> (5) Tad Kwasniewski