



03-24-2003



102397348

Atty Docket No.: 199313US-2X

FORM PTO-1595
1-31-92

U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kazi Sarwar Abedin

3.18.03

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

Name: Communications Research Laboratory,
Independent Administrative Institution

Address: 4-2-1 Nukui-kitamachi, Koganei-shi
Tokyo, Japan

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

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: February 20, 2003

Additional name(s) and address(es) attached? Yes No

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:

A. Patent Application No.(s)

09/704,610

B. Patent No.(s)

Additional numbers attached? Yes No

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



22850

Tel. (703) 413-3000
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6. Total applications and patents involved: 1

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

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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.

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PATENT
REEL: 013864 FRAME: 0022

ASSIGNMENT

WHEREAS, Kazi Sarwar Abedin of Communications Research Laboratory, Independent Administrative Institution of 4-2-1 Nukui-kitamachi, Koganei-shi, Tokyo, Japan is a joint owner with Communications Research Laboratory, Independent Administrative Institution, by assignment, of the application for letters patent of the United States of America Serial No. 09/704,610, filed November 3, 2000; and

WHEREAS, Communications Research Laboratory, Independent Administrative Institution of 4-2-1 Nukui-kitamachi, Koganei-shi, Tokyo Japan, a corporation organized and existing under the laws of the Country of Japan (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said application for letters patent and the inventions described therein;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other valuable consideration, the receipt of which is hereby acknowledged, Kazi Sarwar Abedin by these presents sells, assigns, and transfers unto said ASSIGNEE the entire right, title and interest for the territory of the United States of America in and to the aforesaid application for letters patent and the invention described therein and in and to any and all Letters Patent which may be granted therefor and in and to any and all divisions, continuations, substitutions and renewals thereof.

Kazi Sarwar Abedin hereby authorizes and requests the Patent Office in the United States and its territorial possessions to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of its entire right, title and interest

in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by Kazi Sarwar Abedin had this Assignment and sale not been made.

IN TESTIMONY WHEREOF, Kazi Sarwar Abedin, has caused these presents to be signed by its officer hereunto duly authorized.

Date: February 20, 2003 By: Kazi Sarwar Abedin
Kazi Sarwar Abedin