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To the Honorable Commissioner of Patents and Trade... al documents or copy thereof.

1. Name of conveying party(ies):
Ray-Guang CHENG

Handwritten initials and numbers: R.G.C. 1-6-99

2. Name and address of receiving party(ies):
Name:
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE
Internal Address:

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

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

Street Address:
Computer & Communication Research Laboratory
51 Bldg., 195, Section 4, Chung Hsing Road, Chutung
City: State: Zip:
Hsinchu, 310, Taiwan, Republic of China

Execution Date: January 21, 1999

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

4. Application number(s) or patent number(s): New Patent Application 09/234,871

If this document is being filed together with a new application the execution date of the application is: January 21, 1999

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: STEVENS, DAVIS, MILLER & MOSHER, L.L.P.

Internal Address: Suite 850/JEL 30656

Street Address: 1615 L Street, N.W.

City: Washington State: DC Zip: 20036

6. Total number of applications and patents involved: 1

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

- Enclosed (Check No. 11147)
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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.

James E. Ledbetter
Name of Person Signing

Handwritten signature of James E. Ledbetter
Signature

January 21, 1999
Date

Registration No. 28,732

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

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USA ASSIGNMENT OF PATENT APPLICATION

Inventors: (1) Ray-Guang CHENG
(2) _____
(3) _____
(4) _____
(5) _____
(6) _____
(7) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned inventor(s), the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(8) INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE

(8a) of Computer & Communication Research Laboratories
51 Bldg., 195, Section 4 Chung Hsing Road, Chutung,
Hsinchu 310, Taiwan, R.O.C.

(hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(9) _____ in the invention, and all applications for patent and any Letters Patent which may be granted therefor known as

(10) A CODE MANAGEMENT SYSTEM AND METHOD FOR CDMA
COMMUNICATION NETWORKS (Case No. JEL 30650)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if none even date, he has executed

(11) on _____ or has already filed

(12) U.S. appl'n Serial No. _____ filed on _____

(13) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

6) The undersigned hereby grants, the firm of STEVENS DAVIS, MILLER & MOSHE R, L.L.P. the power to insert on this assignment any further identification which may be necessary or desirable to comply with the rules of the United States Patent Office for recording of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date 1/21/99 Signature of Inventor (1) Ray-Guang Cheng (SEAL)
Date _____ Signature of Inventor (2) _____ (SEAL)
Date _____ Signature of Inventor (3) _____ (SEAL)
Date _____ Signature of Inventor (4) _____ (SEAL)
Date _____ Signature of Inventor (5) _____ (SEAL)
Date _____ Signature of Inventor (6) _____ (SEAL)
Date _____ Signature of Inventor (7) _____ (SEAL)

This assignment should preferably be signed before (a) a Notary Public if within the U.S.A. (b) a U.S. Counsel if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here.

Date 1/21/99 Signature of Witness Chih-Chin Lin (SEAL)
Date 1/21/99 Signature of Witness Chiang-Shien Wu (SEAL)