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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):
**Hongwei Song, Vijayakumar Bhagavatula,
Jingfeng Liu**
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: **Carnegie Mellon University**
Internal Address: _____
Street Address: **5000 Forbes Avenue**
City: **Pittsburgh** State: **PA** Zip: **15213**
Additional name(s) and address(es) attached? Yes No

11036 U.S. PTO
10/28/02
11/07/02

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: **November 1, 2002, November 4, 202
and November 4, 2002**

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: **November 7, 2002**
A. Patent Application No.(s)
10/289780
Additional number(s) attached? Yes No

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed.
Name: **Mark G. Knedeisen, Esq.**
Internal Address: **Kirkpatrick & Lockhart LLP**
Henry W. Oliver Building
Street Address: **535 Smithfield Street**
City: **Pittsburgh** State: **PA** Zip: **15222-2312**

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
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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.
Mark G. Knedeisen
Name of Person Signing
Mark Knedeisen
Signature
7 Nov 2002
Date
Total number of pages including cover sheet, attachments, and documents: **5**

Mail documents to be recorded with required cover sheet information to:
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For: U.S. and/or Foreign Rights
 For: U.S. Application or
 U.S. Provisional Application
 For: U.S. Patent
 For: PCT Application
 By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

Hongwei Song
 (type or print name of inventors)

5217 Fifth Avenue, Apartment 3
Pittsburgh, PA 15232 People's Rep. Of China
 Address Nationality

Vijayakumar Bhagavatula

2668 Rossmoor Drive
Upper St. Clair, PA 15241 USA

Jingfeng Liu

60-311 Commons Drive
Shrewsbury, MA 01545 People's Rep. Of China

hereby sells, assigns and transfers to

ASSIGNEE:

Carnegie Mellon University
(type or print name of ASSIGNEE)

5000 Forbes Avenue
Address

(a non-profit Pennsylvania organization)
Nationality

Pittsburgh, PA 15213

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

the entire right, title and interest

an undivided _____ percent (_____ %) interest for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled **ENCODING METHOD USING A LOW DENSITY PARITY CHECK CODE WITH A COLUMN WEIGHT OF TWO**

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) U.S. patent application executed on even date herewith

(b) U.S. patent application executed on _____

(c) U.S. provisional application naming the above inventor(s) for the above-entitled invention

Express mail label no.: _____

Mailed: _____

To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) U.S. application no.: _____ filed on _____

(e) International application no. PCT / _____ / _____
filed on _____

(f) U.S. patent no. _____ issued _____

A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

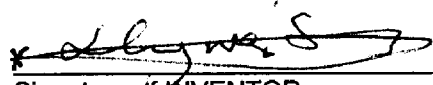
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal on the date(s) indicated below.

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Hongwei Song
(type name of Inventor)

 11/04/02
Signature of INVENTOR Date

Vijayakumar Bhagavatula
(type name of Inventor)

 11/04/02
Signature of INVENTOR Date

Jingfeng Liu
(type name of Inventor)

X
Signature of INVENTOR Date

Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.