

June 3, 2002

6-10-02



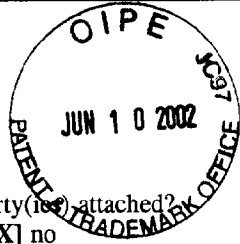
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102128703

Docket No.: YO9-2002-0556US1 (728-219)

1. Name of conveying party(ies):
 Louis L. HSU
 Rajiv J. JOSHI
 Jeremy K. STEPHENS
 Daniel W. STORASKA

Additional name(s) of conveying party(ies) attached?
 yes no



2. Name and address of receiving party(ies):
 Name: **International Business Machines Corporation**
 Internal Address:
 Street Address: **New Orchard Road**
 City: **Armonk**
 Country/State/Zip: **New York 10504**
 Additional names and addresses attached? yes no

3. Nature of Conveyance
 Assignment Merger
 Security Agreement Change of Name
 Other _____
 Execution Date: 01/24/02, 01/24/02, 01/24/02, 01/24/02

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)
10/062,812
 B. Patent No.(s):
 N/A
 Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Paul J. Farrell, Esq.
 Internal Address: Dilworth & Barrese, LLP
 Street Address: 333 Earle Ovington Boulevard
 City: Uniondale State: NY ZIP: 11553


6. Total number of applications and patents involved:
[1]

7. Total fee (37 C.F.R. 3.41) \$ 40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 50-0510/IBM (Yorktown Heights)
 (Attach duplicate copy of this page if paying by 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.

Paul J. Farrell, Esq.  June 3, 2002
 Name of Person Signing Signature Date
 Reg. No. 33,494 Total number of pages including cover sheet, attachments and document **[5]**

OMB No. 0651-0011 (exp. 4/84)

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For: U.S. and/or Foreign Rights
For: U.S. Application or U.S. Patent
By: Inventor(s) or Present Owner

ASSIGNMENT OF INVENTION

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,

ASSIGNOR(S): **Louis L. Hsu, Rajiv J. Joshi, Jeremy K. Stephens and Daniel W. Storaska**

*(inventor(s) or person(s) or entity(ies)
who own the invention)*

(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

International Business Machines Corporation
(Type or print name of ASSIGNEE)

New Orchard Road
Armonk, New York 10504
Address

U.S.A.
Nationality

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)*

(Assignment of Invention [16-3] - page 1 of 3)

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:

**EMBEDDED DRAM SYSTEM HAVING WIDE DATA
BANDWIDTH AND DATA TRANSFER DATA PROTOCOL**

(check and complete (a), (b), (c) or (d))

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. application serial no. 0 / ____ filed on

- (d) 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 (e) if foreign application(s) is also being assigned)
- (e) 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 re-issue or re-examination thereof

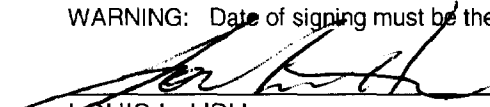
ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment; Assignment of Invention [16-3] - page of 3)

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.

(Assignment of Invention [16-3] - page 2 of 3)


IN WITNESS WHEREOF, I/We have hereunto set hand and seal this _____
(Date of signing).

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


 1-24-2002

LOUIS L. HSU Dated

RAJIV J. JOSHI Dated

 1-24-2002

JEREMY K. STEPHENS Dated

 1/24/2002

DANIEL W. STORASKA Dated

(Assignment of Invention [16-3] - page 3 of 3)

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this _____
(Date of signing).

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

LOUIS L. HSU Dated
Rajiv V. Joshi *Jan 24, 2002*

RAJIV J. JOSHI Dated

JEREMY K. STEPHENS Dated

DANIEL W. STORASKA Dated

(Assignment of Invention [16-3] - page 3 of 3)