

12-23-1998

*MLB 12-4-98*



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1. Name of conveying party(ies):

Nicholas J. Richardson  
Charles A. Stack

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

Name: STMicroelectronics, Inc.

Internal Address: M/S 2346

Additional name(s) of conveying parties attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Street Address: 1310 Electronics Dr.

City: Carrollton State: TX ZIP: 75006-5039

Execution Date: December 3, 1998

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

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: November 18 and December 3, 1998

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: Lisa K. Jorgenson

Internal Address: M/S 2346

Street Address: 1310 Electronics Dr.

City: Carrollton State: TX ZIP: 75006-5039

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: \_\_\_\_\_

(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.

Lisa K. Jorgenson  
Name of Person Signing

*Lisa K. Jorgenson*  
Signature

4 Dec. 1998  
Date

Total number of pages comprising cover sheet: 2

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**PATENT**  
**REEL: 9651 FRAME: 0072**

PATENT ASSIGNMENT

740 Arthur St., San Diego

WHEREAS, we, Nicholas J. Richardson, having a correspondence address of ~~7550 Eads Avenue #402, La Jolla~~, San Diego County, California 92037 and Charles A. Stack, having a correspondence address of 1760 Orchard Wood Road, ~~Del Mar~~ San Diego County, California 92024, respectively, have invented new and useful improvements in a

Encinitas  
Pipelined Non-Blocking Level Two Cache System  
With Inherent Transaction Collision-Avoidance

for which application was made for Letters Patent, said application being executed by us on the 3RD day of DECEMBER 1998, and further being identified by Attorney Docket No. 97-LJ-186.

WHEREAS, STMICROELECTRONICS, INC., a corporation of the State of Delaware, having a correspondence address of 1310 Electronics Drive, Carrollton, Texas 75006, and Metaflow Technologies, a corporation of the State of California, having a correspondence address of 4250 Executive Square, Suite 300, LaJolla, CA 92037-9104, are desirous of acquiring their entire right, title and interest in said application and their Letters Patent which may issue thereon:

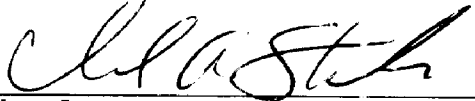
NOW, THEREFORE, be it known by all whom it may concern that for and in consideration of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and other good and valuable consideration, we hereby assign to said corporation, both in and for the territory of the United States of America and the entire world our entire right, title and interest in and to said invention, patent application and any patent which may issue thereon, including all priority rights for patent applications foreign to the United States of America.

WE HEREBY covenant and agree that we will at any time, upon the request and at the expense of said corporation, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention, applications and patents, and we authorize the Commissioner of Patents and Trademarks to issue Letters Patent to said corporation.

WE HEREBY declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

IN TESTIMONY WHEREOF, we execute this assignment on the 3RD day of DECEMBER, 1998.

  
\_\_\_\_\_  
Nicholas J. Richardson

  
\_\_\_\_\_  
Charles A. Stack