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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks, the attached original documents or copy thereof.

1. Name of conveying party(ies): 3-14-03  
Tariq Kurd  
Additional name(s) of conveying party(ies) attached? \_\_\_ Yes X No

2. Name and address of receiving party(ies):  
STMicroelectronics Limited  
Street Address:  
1000 Aztec West  
Almondsbury  
BS32 4SQ Bristol, England  
Additional name(s) & address(es) attached? \_\_\_ Yes X No

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

Execution Date: December 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:  
A. Patent Application No.(s)  
10/291,859 filed November 8, 2002  
Additional numbers attached? \_\_\_ Yes X No

FINANCE SECTION  
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5. Name and address of party to whom correspondence concerning document should be mailed:  
Andre M. Szuwalski  
Jenkins & Gilchrist, P.C.  
1445 Ross Avenue, Suite 3200  
Dallas, Texas 75202-2799

6. Total number of applications and patents involved: One (1)  
7. Total fee (37 C.F.R. 3.41): ....\$ 40.00  
X Enclosed  
\_\_\_ Authorized to be charged to deposit account  
8. Deposit account number:  
10-0447  
(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.  
Andre M. Szuwalski [Signature] 3/6/03  
Name of Person Signing Signature (Reg.No. 35,701) Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents and Trademarks, Box Assignments  
Washington, D.C. 20231

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01 FC:8021 40.00 DP

# ASSIGNMENT

WHEREAS, I, Tariq Kurd, have invented certain new and useful improvements in the following:

## **CIRCUITRY FOR CARRYING OUT A SQUARE ROOT OPERATION**

for which I have made application for United States Letters Patent, the said application having been filed November 8, 2002, bearing Attorney Docket No. 50886-00007USPX; and

WHEREAS, STMicroelectronics Limited, a corporation organized and existing under the laws of the United Kingdom, having a place of business at 1000 Aztec West, Almondsbury, Bristol BS32 4SQ, United Kingdom (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring my entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives my entire right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said ASSIGNEE of my entire right, title and interest.

I also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

I further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

I hereby further agree that I will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

I further authorize and direct my attorneys to insert below\* the serial number and filing date of said application now identified as Case Docket No. 50886-00007USPX as soon as the same shall have been made known to them by the United States Patent Office.

\*Serial Number: \_\_\_\_\_

Filing Date: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 4th day of Dec,

2002.



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Name: Tariq Kurd  
Address: 29 Ralph Road  
Horfield  
BS7 9QR Bristol, England