

07-13-2004

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Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

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PATENTS ONLY

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

<p>1. Name of conveying party(ies): Michel Harrand (06/03/2004) and Joseph Bulone (06/03/2004)</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies) Name: <u>STMicroelectronics S.A.</u> Internal Address: _____ Street Address: _____ STMicroelectronics S.A. 29, Boulevard Romain Rolland 13790 Montrouge FRANCE City: _____ State: _____ Zip: _____ Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>see Box 1, conveying parties</u></p>	

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

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

<p>A. Patent Application No.(s): 10/766291</p>	<p>B. Patent No.(s):</p>
<p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	

<p>5. Name and address of party to whom correspondence concerning document should be mailed: Name: Andre M. Szuwalski JENKENS & GILCHRIST, A PROFESSIONAL CORPORATION Internal Address: Atty. Dkt.: 61170-00027USPX Street Address: 1445 Ross Avenue, Suite 3200 City: Dallas State: TX Zip: 75202</p>	<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Authorized to be charged to credit card (Form 2038 enclosed)</p> <p>8. Deposit account number: <u>10-0447</u> (Attach duplicate copy of this page if paying by deposit account)</p>
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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.

<p>Andre M. Szuwalski Name of Person Signing</p>	<p> Signature</p>	<p><u>6/28/04</u> Date</p>
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Total number of pages including cover sheet, attachments, and documents: 4

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PATENT
REEL: 015547 FRAME: 0553

C/REF: BOE/338005
ST REF: 02-GR1-355
Y/REF: 61170-27USPX
CUSTOMER NO. 23932

PATENT APPLICATION
Docket No. 61170-27USPX

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, by Michel Harrand and Joseph Bulone (hereinafter referred to as Assignors), residing at 3, rue de l'Ancienne Ferme, 38120 Saint-Egreve, FRANCE; and 99, rue des Granges, 38530 La Buisserie FRANCE, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in PROCESS FOR REFRESHING A DYNAMIC RANDOM ACCESS MEMORY, set forth in a Patent application for Letters Patent of the United States, already filed on January 26, 2004 as U.S. application No. 10/766291; and

WHEREAS, STMicroelectronics S.A., a organized under and pursuant to the laws of France having its principal place of business at STMicroelectronics S.A., 29, Boulevard Romain Rolland, 13790 Montrouge, FRANCE (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

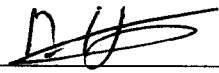
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PATENT APPLICATION
Docket No. 61170-27USPX

JENKENS & GILCHRIST, A PROFESSIONAL CORPORATION

All practitioners at Customer Number 23932

AND Assignors acknowledge an obligation of assignment of this invention to
Assignee at the time the invention was made.

Date: June 3rd 2004 Signature: X Michel Harrand 
Michel Harrand

Date: June 3rd 2004 Signature: X Joseph Bulone 
Joseph Bulone