

RECORDATION
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DEPARTMENT OF COMMERCE
Patent and Trademark Office

101427243

To the Commissioner for Patents : Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Franck DUCLOS, Olivier LADIRAY, and Jean-Michel SIMONNET

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **July 13, 2000, July 15, 2000, and July 20, 2000**

2. Name and address of receiving party(ies)
Name: **STMicroelectronics, S.A.**
Internal Address:
Street Address: **7, Avenue Gallieni
94250 Gentilly, FRANCE**

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

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 July 13, 2000, July 15, 2000, and July 20, 2000

A. Patent Application No.(s)

B. Patent No.(s)

09/028/99

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence Concerning document should be mailed:
Name: **James H. Morris**
Address: **WOLF, GREENFIELD & SACKS, P.C.
Federal Reserve Plaza
600 Atlantic Avenue
Boston, MA 02210**

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

08/08/2000 PSTANBAC 00000006 09628199
02 FC:581 40.00 OP

The Commissioner is authorized to charge:

8. Deposit Account No: 23/2825

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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.

James H. Morris		July 28, 2000
Name of Person Signing	Signature	Date

Total number of pages including cover sheet, attachments, and document: **[2]**

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

PTO
10086 U.S.
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ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- (1) DUCLOS Franck (4) _____
- (2) LADIRAY Olivier (5) _____
- (3) SIMONNET Jean-Michel (6) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

STMicroelectronics S.A.
7, Avenue Gallieni
94250 GENTILLY, FRANCE

its successors and assign (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

A ZERO CROSSING CONTROL CIRCUIT FOR A BIDIRECTIONAL SWITCH WITH A STABLE THRESHOLD

(a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial N° _____; OR

(b) for which an application for United States Letters Patent was executed on _____,

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals or continuations thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

<u>INVENTORS</u>	<u>DATE SIGNED</u>
1) <u>DUCLOS Franck</u> Name: _____	<u>[Signature]</u> <u>13/07/2000</u>
2) <u>LADIRAY Olivier</u> Name: _____	<u>[Signature]</u> <u>15/07/2000</u>
3) <u>SIMONNET Jean-Michel</u> Name: _____	<u>[Signature]</u> <u>20/07/00</u>
4) _____ Name: _____	_____
5) _____ Name: _____	_____
6) _____ Name: _____	_____