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

03917 U.S.P.T.O.
10/729682



120503

1. Name of conveying party(ies):
Hilal ESSEDDINE
François DUPONT
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: **STMicroelectronics, S.A.**
Internal Address:
Street Address: **29, Boulevard Romain Rolland**
92120 Montrouge, FRANCE

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

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

Execution Date: **November 20, 2003**

4. Application number(s) or patent number(s): **10729682**

If this document is being filed together with a new application, the execution date of the application is November 20, 2003

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: **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

The Commissioner is authorized to charge any deficiencies in the enclosed payment to:

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

Name of Person Signing

Signature

December 5, 2003

Date

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

Mail documents to be recorded with required cover sheet information to (modify as appropriate):

Mail Stop Patent Application

Director - U.S. Patent and Trademark Office (when filed separately from a new application)

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PO Box 1450, Alexandria, VA 22313-1450

12/10/2003 WABRHAM1 00000068 10729682

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PATENT
REEL: 014783 FRAME: 0129

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) <u>EZZEDDINE Hilal</u> | (4) _____ |
| (2) <u>DUPONT François</u> | (5) _____ |
| (3) _____ | (6) _____ |

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

STMicroelectronics SA
29, Boulevard Romain Rolland
92120 MONTRouGE, 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

DIRECTIONAL COUPLER

(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>EZZEDDINE Hilal</u> Name: _____	20.11.03 _____
2) <u>DUPONT François</u> Name: _____	_____ 20 NOV 2003
3) _____ Name: _____	_____
4) _____ Name: _____	_____
5) _____ Name: _____	_____
6) _____ Name: _____	_____

PATENT