

# PATENT ASSIGNMENT

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                 |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>  |                                |
| <b>Name</b>  | <b>Execution Date</b>          |
| Fabio Pellizzer  | 02/23/2006                     |
| Roberto Bez  | 02/23/2006                     |
| Maria Santina Marangon   | 02/23/2006                     |
| Roberta Piva   | 02/28/2006                     |
| Laura Aina   | 02/23/2006                     |
| <b>RECEIVING PARTY DATA</b>  |                                |
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| <b>City:</b>   | Agrate Brianza                 |
| <b>State/Country:</b>  | ITALY                          |
| <b>Postal Code:</b>  | 20041                          |
| <b>PROPERTY NUMBERS Total: 1</b>   |                                |
| <b>Property Type</b>   | <b>Number</b>                  |
| Application Number:  | 11317622                       |
| <b>CORRESPONDENCE DATA</b>   |                                |
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| NAME OF SUBMITTER:   | Hai Han                        |

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**PATENT**  
**REEL: 017410 FRAME: 0062**

Total Attachments: 3

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## ASSIGNMENT

WHEREAS, we, Fabio Pellizzer, Roberto Bez, Maria Santina Marangon, Roberta Piva and Laura Aina (hereinafter referred to as ASSIGNORS), having mailing addresses of Via Peroz, 16, Follina, Italy 310151; Via Vespri Siciliani, 2, Milano, Italy 20146; Viale Garibaldi, 31, Merate, Italy 23807; Via Carducci, 50, Concorezzo, Italy 20049; and Via Alla Cava, 1, Lesmo, Italy 20050, respectively, are the joint inventors of an invention entitled "PROCESS FOR MANUFACTURING A PHASE CHANGE MEMORY ARRAY IN CU-DAMASCENE TECHNOLOGY AND PHASE CHANGE MEMORY ARRAY THEREBY MANUFACTURED," as described and claimed in the specification for which an application for United States letters patent was filed on December 22, 2005 and assigned Application No. 11/317,622;

WHEREAS, STMicroelectronics S.r.l. (hereinafter referred to as ASSIGNEE), a corporation of the country of Italy having a place of business at Via C. Olivetti, 2, Agrate Brianza, Italy 20041, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

23/2/2006  
Date

Fabio Pellizz  
Fabio Pellizzer

I certify that I know or have satisfactory evidence that Fabio Pellizzer is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 23/02/06  
Signature of  
witness Agostino Pirovano  
Agostino PIROVANO

23.02.06  
Date

Roberto Bez  
Roberto Bez

I certify that I know or have satisfactory evidence that Roberto Bez is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 23/02/06  
Signature of  
witness Agostino Pirovano  
Agostino PIROVANO

23/02/2006  
Date

Maria Santina Marangon  
Maria Santina Marangon

I certify that I know or have satisfactory evidence that Maria Santina Marangon is the person who appeared before me, and said person acknowledged that she signed this instrument and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 23/02/06  
Signature of  
witness Agostino Pirovano  
Agostino PIROVANO

28/02/2006  
Date

Roberta Piva  
Roberta Piva

I certify that I know or have satisfactory evidence that Roberta Piva is the person who appeared before me, and said person acknowledged that she signed this instrument and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 23/02/06  
Signature of  
witness Agostino Pirovano  
Agostino PIROVANO

23/2/2006  
Date

Laura Aina  
Laura Aina

I certify that I know or have satisfactory evidence that Laura Aina is the person who appeared before me, and said person acknowledged that she signed this instrument and acknowledged it to be her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 23/02/06  
Signature of  
witness Agostino Pirovano  
Agostino PIROVANO

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