

09-17-2001



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FORM PTO-1594 (Rev 6-93)

REC

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Atty Docket #: SC11689TP

1979 U.S. PTO 09/940241 06/27/01

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

1. Name of conveying part(ies): Pawitter Mangat Sang-In Han

82701

2. Name and address of receiving party(ies): Name: Motorola, Inc.

Internal Address: Intellectual Property Dept.

3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Street Address: 1303 East Algonquin Road

MD: IL01/3rd

City: Schaumburg State: IL ZIP: 60196

Execution date of conveyance: August 21, 2001

Additional name(s) & address(es) attached? [ ] Yes [X] 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: August 21, 2001

A. Patent Application No.(s): SC11689TP

B. Patent No.(s):

Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Motorola, Inc. Internal Address: Austin Intellectual Property Law Section Street Address: 7700 West Parmer Lane MD: TX32/PL02 City, State, Zip: Austin, Texas 78729

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$ 40.00

[ ] Enclosed [X] Authorized to be charged to deposit account

8. Deposit account number: 13-4773

09/1772001 610N11 00000006 134773 0994024 01 FC:581 40.00 CH

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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 L. Clingan, Jr. 30,163 Reg. No.

Signature: James L. Clingan, Jr. Date: 8/27/01

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

OMB No. 0651-0011 (exp. 4/94)

Express Mail Label No. EL504130645US

PATENT REEL: 012154 FRAME: 0116

## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, Pawitter Mangat of Gilbert, Arizona; and Sang-In Han of Phoenix, Arizona, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto Motorola, Inc., a corporation of the State of Delaware, having its principal office in Schaumburg, State of Illinois, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States of America in and to certain inventions relating to improvements in METHOD OF FORMING A PATTERN ON A SEMICONDUCTOR WAFER USING AN ATTENUATED PHASE SHIFTING REFLECTIVE MASK (Attorney Docket No. SC11689TP), described, illustrated, and claimed in an application for Letters Patent of the United States of America executed by us, together with our entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any division, extension, continuation, reexamination, or reissue thereof.

We hereby also sell, assign, and transfer unto Motorola, Inc., our entire right, title, and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the inventions and the applications for Letters Patent in foreign countries, and we further authorize Motorola, Inc. to apply for Letters Patent in foreign countries directly in its own name, and to claim the priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation, reexamination, or reissue, to Motorola, Inc., for the sole use and behoof of Motorola, Inc., its successors, assigns, and legal representatives, to the full end of the term for which the Letters Patent may be granted, the same as they would have been held and enjoyed by us had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to Motorola, Inc..

Express Mail Label No. EL504130645US

**PATENT**  
**REEL: 012154 FRAME: 0117**

We agree that, when requested, we will, without charge to Motorola, Inc., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in Motorola, Inc., its successors, assigns, and legal representatives or nominees.

We covenant with Motorola, Inc., its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

Pawitter Mangat  
Pawitter Mangat

STATE OF ARIZONA )

COUNTY OF MARICOPA )

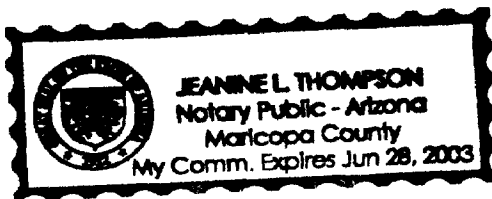
I, JEANINE L. THOMPSON, a Notary Public in and for the County and State aforesaid, do hereby certify that Pawitter Mangat, whose name(s) is/are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 21<sup>st</sup> day of AUGUST, 2001.

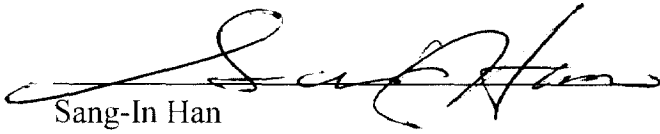
Jeanine L. Thompson

My commission expires on June 28, 2003

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Address correspondence concerning this document to: Motorola, Inc., Austin Intellectual Property Law Section, 7700 West Parmer Lane, MD: TX32/PL02.

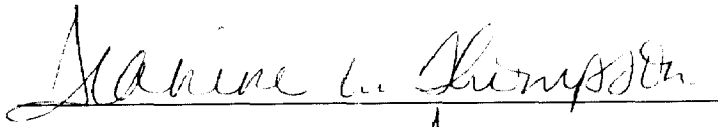
  
Sang-In Han

STATE OF ARIZONA )

COUNTY OF MARICOPA )

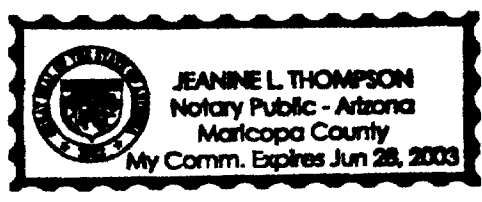
I, JEANINE L. THOMPSON, a Notary Public in and for the County and State aforesaid, do hereby certify that Sang-In Han, whose name(s) is/are subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 21<sup>st</sup> day of AUGUST, 2001.



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