

| FORM PTO 1595 1-31-92 | 103476177 | | U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office | |
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| | f Patents and Trademarks. | | hed original documents or copy thereof. | |
| Name and Address of Conveying Party(ies): Fred J. Reuter 7308 Sharps Drive Plano, Texas 75025 | | 2. Name and Addres | ss of receiving Party(ies): | |
| Individual Citizenship: USA | | Name: | TEXAS INSTRUMENTS INCORPORATED | |
| Additional name(s) of conveying party(ies) attached YesX No | ? | Mailing Address: | Legal Department P.O. Box 655474, M/S 3999 Dallas, Texas 75251 | |
| | | Street Address: | Legal Department 7839 Churchill Way, M/S 3999 Dallas, Texas 75265 | |
| 3. Nature of conveyance: X Assignment Me | erger | | | |
| Security Agreement Ch | ange of Name | | | |
| Other | | Additional name(Address(es) attac | | |
| Execution Date: 11/28/2007 4. Application number(s) or patent number(s): | | | | |
| If this document is being filed together with a new a | pplication, the execution of | late of the application is | : · | |
| A. Patent Application No.(s): | | B. Patent No.(s): | | |
| 11/947,562 | | Additional l | Numbers Yes X No | |
| Name and address of party to whom correspondence should be mailed to: | concerning document | 6. Total number of | of application and patents involved: One | |
| Name: Charles A. Brill (Reg. No. | 37,786) | 7. Total Fee (370 | C.F.R. 3.41): \$40.00 | |
| Internal Address: TEXAS INSTRUMENTS Street Address: 7839 Churchill Way, M/S | | Enclo X Autho | sed rized to be charged to deposit account | |
| City: Dallas | | | V: | |
| State: Texas Zip | 75251 | | o. 20-0668 of Texas Instruments Incorporated cate Copy of this page if paying by deposit account) | |
| | DO NOT US | E THIS SPACE | cate Copy of this page if paying by deposit account) | |
| Statement and signature. | 11 | 7 _ | | |
| To the best of my knowledge and belief, the foregoing | g information ts true and | correct and any attache | d copy is a true copy of the original document. | |
| Bradley P. Williams, Reg. No. 40,227 | //////// | | January 11, 2008 | |
| Name of Person Signing | Signatur | | Date | |
| | To | otal number of pages inc | eluding cover sheet 2 | |
| OMB No. 0651-0011 (exp. 4/94) | Do not deta | ch this portion | 01/17/2008 DBYRNE 00000007 200668 11947562 | |
| Mail documents to be recorded with required cover sheet | | en uns portion | 61 FC:8621 48.88 DA | |
| | Mail Stop Assignmer | | es | |
| Commissioner for Patents P.O. Box 1450 | | | | |
| | | A 22313-1450 | | |
| and gathering the data needed, and completing and re | eviewing the sample cove | er sheet. Send comme | nt to be recorded, including time for reviewing the document ents regarding this burden estimate to the U.S. Patent and Office of Management and Budget, Paperwork Reduction | |

DAL01:992181

PATENT REEL: 020380 FRAME: 0623 1 of 1

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been executed on the date set forth below; and

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations and extensions thereof; and I hereby authorize and request the Commissioner of Patents to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year:

| Title of | LIGHT BEAM CONTROL SYSTEM FOR A SPATIAL LIGHT | | | |
|--|---|--|--|--|
| Invention | MODULATOR | | | |
| Signature of Inventor and Name | Fred J. Reuter | | | |
| Date | | | | |
| RESIDENCE (City, County, State) | Plano, Collin County, Texas | | | |
| P.O. ADDRESS (Address, City, State, and Zip) | 7308 Sharps Drive Plano, Texas 75025 | | | |
| Date Application Executed | 11/28,2007 | | | |

After recording, return Assignment to:

Charles A. Brill, Esq. Texas Instruments Incorporated P. O. Box 655474, M/S 3999 Dallas, Texas 75265

DAL01:986547

PATENT REEL: 020380 FRAME: 0624

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Fred J. Reuter

Serial Number:

11/947,562

Filing Date:

November 29, 2007

Title:

Light Beam Control System for a Spatial Light Modulator

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

CERTIFICATE OF MAILING BY EXPRESS MAIL

I hereby certify that the attached Assignment Recordation (2 pages) including transmittal, Baker Botts L.L.P. return receipt postcard (1 card), Texas Instruments Incorporated return receipt postcard (1 card), and this Certificate of Mailing are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on this **14th day of January**, **2008** and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Willie Tiles
Willie Jiles

USPS Express Mail Receipt No. EV 941534415 US

RECORDED: 01/14/2008

DAL01:992182

PATENT REEL: 020380 FRAME: 0625