504088497 11/09/2016

EPAS ID: PAT4135165

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| HOWARD RHODES | 11/07/2002 |
| JEFF MCKEE | 11/08/2002 |

RECEIVING PARTY DATA

| Name: | MICRON TECHNOLOGY, INC. |
|-----------------|-------------------------|
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| City: | BOISE |
| State/Country: | IDAHO |
| Postal Code: | 83706 |

PROPERTY NUMBERS Total: 3

| Property Type | Number |
|----------------|---------|
| Patent Number: | 7531379 |
| Patent Number: | 7102180 |
| Patent Number: | 7525134 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | APT2001-1118DIVS | |
|-------------------------|--------------------|--|
| NAME OF SUBMITTER: | SHARRON CASTILLO | |
| SIGNATURE: | /Sharron Castillo/ | |
| DATE SIGNED: | 11/09/2016 | |

Total Attachments: 3

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PATENT REEL: 040269 FRAME: 0154

Docket No.: M4065.0570/P570 Micron No.: 02-0054

ASSIGNMENT AND AGREEMENT

For value received, we, Howard Rhodes and Jeff Mckee, hereby sell, assign and transfer to Micron Technology, Inc., a corporation of the State of Delaware, having an office at 8000 S. Federal Way, Boise, Idaho 83706-9632, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to an invention entitled CMOS IMAGER PIXEL DESIGNS, described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Micron Technology, Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Micron Technology, Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Micron Technology, Inc., to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Micron Technology, Inc. in the United States and in all countries foreign to the United States, or to such nominees as Micron Technology, Inc. may designate.

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Docket No.: M4065.0570/P570

Micron No.: 02-0054

We agree that, when requested, we shall, without charge to Micron Technology, Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

| | Howard & Clives |
|--|---|
| , | Howard Rhodes |
| Date: 1/1/02 | |
| United States of America) | |
| State of Idaho) ss. | : |
| County of Ada) | |
| of the same | ben, 2002, before me, to me known to be the individual ing instrument, and acknowledged execution Lani Binenslen |
| OTAP TO THE PROPERTY OF THE PR | Notary Public |

Docket No.: M4065.0570/P570

Micron No.: 02-0054

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ASSIGNMENT AND AGREEMENT

Signature Page for Second Inventor

| | · Africa |
|--|---|
| | Jeff Mckee |
| Date: 11/08/02_ | |
| United States of America |) |
| State of Idaho |) ss.: |
| County of Ada |) |
| On this gt day of personally came Jeff Mckee | November, 2002, before me, to me known to be the individual |
| described in and who executed | the foregoing instrument, and acknowledged execution |
| of the same. BISSEN | Osi Bessendent Notary Public |

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RECORDED: 11/09/2016

PATENT REEL: 040269 FRAME: 0157