

PATENT ASSIGNMENT COVER SHEET

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|---|---------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HOON CHOI | 01/07/2011 |
| DAEKYEUNG KIM | 01/07/2011 |
| WOOSEUNG YANG | 01/07/2011 |
| YOUNG II KIM | 01/07/2011 |
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| Street Address: | 1060 EAST ARQUES AVENUE |
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| State/Country: | CALIFORNIA |
| Postal Code: | 94085 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16599059 |
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| NAME OF SUBMITTER: | ERIC ZHOU REG. NO. 68,842 |
| SIGNATURE: | /Eric Zhou/ |
| DATE SIGNED: | 02/03/2020 |
| Total Attachments: 2 | |
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| source=44812 US Assignment (From parent 36308 and Grandparent 25611)#page2.tif | |

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned;

Hoon Choi; Daekyeung Kim; Wooseung Yang; Young Il Kim

hereby sell, assign, and transfer to

Silicon Image, Inc.

a Corporation of Delaware, having a principal place of business at 1060 East Arques Avenue, Sunnyvale, California 94085 US ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

TRANSMISSION AND DETECTION OF MULTI-CHANNEL SIGNALS IN REDUCED CHANNEL FORMAT

said patent application also identified as follows (when known):

[If we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/004,359 filed January 11, 2011

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

1/7/2011
Date

[Signature]
Name: **Hoon Choi**

1/7/2011
Date

[Signature]
Name: **Daekyeung Kim**

1/7/2011
Date

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Name: **Wooseung Yang**

1/7/2011
Date

[Signature]
Name: **Young Il Kim**

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