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PATENTS ONLY

Atty Ref/Docket No.: 3867.022US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Bin Shao, Kenji Tomiyoshi

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger☐ Security Agreement ☐ Change of Name☐ OtherExecution Date: June 7, 2013, June 7, 2013

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

Name: Analog Devices Technology

Street Address: 3rd Floor, Par La Ville Place 14
Par La Ville RoadCity: HamiltonCountry: BermudaAdditional name(s) & address(es) attached? ☐ Yes
☒ 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:

A. Patent Application No.(s)

Serial No. 13/548,624, filed July 13, 2012

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Paul J. Urbanski

Address:

Schwegman, Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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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.

Paul J. Urbanski/Reg. No. 58,351

Name of Person Signing



Signature

June 12, 2013

Date

Total number of pages including cover sheet: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks**Mail Stop Assignment Recordation Services****P.O. Box 1450****Alexandria, VA 22313-1450**

CH \$40.00 190743 13548624

PATENT**700506480****REEL: 030630 FRAME: 0612**

Attorney Docket No. 3867.022US1
Client Ref. No. APD4208-1-US

ASSIGNMENT

WHEREAS, Bin Shao and Kenji Tomiyoshi (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on July 13, 2012, which application was assigned US patent application serial number 13/548,624, and which is titled CURRENT CONTROLLING CIRCUIT FOR A LIGHT-EMITTING DIODE DRIVER AND PRODUCING METHOD THEREFOR; which are described in a patent application filed on August 31, 2011, which application was assigned CN application serial number 201110253164.1, and which is titled CURRENT CONTROLLING CIRCUIT FOR A LIGHT-EMITTING DIODE DRIVER AND PRODUCING METHOD THEREFOR.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Analog Devices Technology (the "Assignee"), having a place of business at 3rd Floor, Par La Ville Place 14, Par La Ville Road, Hamilton, Bermuda, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any

Assignment

Assignors: Bin Shao et al.

Title: CURRENT CONTROLLING CIRCUIT FOR A LIGHT-EMITTING DIODE DRIVER AND PRODUCING METHOD THEREFOR

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information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

PATENT**REEL: 030630 FRAME: 0614**

Assignment

Assignors: Bin Shao et al.

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Assignor:

(Signature): Bin Shao

Name: Bin Shao

City/State: Shanghai, China

Date: June 7, 2013

PATENT

REEL: 030630 FRAME: 0615

Assignment

Assignors: Bin Shan et al.

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Assignor:(Signature): Kenji TomiyoshiName: Kenji TomiyoshiCity/State: Chiba, JapanDate: June 7th 2013**PATENT****RECORDED: 06/13/2013****REEL: 030630 FRAME: 0616**