505549989 06/28/2019

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAOLING ZHANG	06/20/2019

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16456351

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DATE SIGNED:	06/28/2019

Total Attachments: 3

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PATENT 505549989 REEL: 049622 FRAME: 0520

Attorney No.: 15157-000639-US

ASSIGNMENT

Each person signing below ("Assignor") has made or authorized to be made the following patent applications ("Patent Applications"):

SWITCHING CONVERTER, CIRCUIT AND METHOD FOR CONTROLLING THE SAME

assigned U.S. Serial No. 16/456,351 , filed June 28, 2019;

The Patent Applications disclose, whether claimed or unclaimed, inventions ("Inventions"), of which Assignor believes Assignor is an original inventor or an original joint inventor.

SILERGY SEMICONDUCTOR TECHNOLOGY (HANGZHOU) LTD ("Assignee"), having a place of business at A1501, Technology Mansion, Eastern Software Park, No. 90 Wensan Rd, Hangzhou, Zhejiang 310012, PEOPLE'S REPUBLIC OF CHINA, desires to acquire all right, title, and interest in and to "Intellectual Property" as defined below.

Assignor acknowledges and confirms any prior assignment(s) or obligation(s) of assignment from Assignor to Assignee of any part of the Intellectual Property.

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- c. any application to which one of the Patent Applications could have claimed priority or benefit directly or indirectly, where "application" encompasses (i) applications filed under the laws and treaties of the United States, other countries, regions, and international bodies, (ii) provisional patent applications and non-provisional patent applications, and (iii) other applications for the protection of intellectual property, including applications for utility models, design patents, and statutory invention registrations;
- any application that claims or could have claimed priority to or benefit of one of the Patent Applications directly or indirectly (including divisionals, continuations, continuations-in-part, patents of addition, and non-U.S. applications);
- e. any application, whether or not linked by priority/benefit claim to the Patent Applications, that describes or claims at least one of the Inventions;
- f. any official grant (including a United States Patent) arising from any application identified in parts (a)–(e);
- g. any modification or extension of any official grant, including reissues,
 reexaminations, renewals, substitutes, patents of addition, and extensions;

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- any improvements to the Inventions that were conceived by Assignor prior to execution of this Assignment; and
- i. all interest in works of authorship by Assignor related to the Inventions, whether reproduced in the Patent Applications or not, and including computer code, user interfaces, graphic works, and the Patent Applications themselves, including the written descriptions, the drawings, and the claims.

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Assignor represents that Assignor has not, and agrees that Assignor will not, enter into any assignment, sale, license, agreement, transfer, or encumbrance that would conflict with this Assignment. Assignor further agrees not to challenge, or assist in any challenge to, the Intellectual Property.

Assignor agrees to fully cooperate ("Cooperation") with Assignee and Assignee's successors in interest to (i) acquire or defend title to the Intellectual Property, (ii) make, prosecute, and issue applications identified in the Intellectual Property, (iii) defend the validity of the Intellectual Property, and (iv) enforce the Intellectual Property. The cooperation encompasses proceedings in front of administrative tribunals (such as an appeals board of the United States Patent and Trademark Office or the Patent Office of any other country, region, or international body) and in courts of law or equity in any country, region, or international body. The proceedings include litigation (such as disputes regarding validity, infringement, and indemnification), reexamination proceedings, reissue proceedings, interference proceedings, derivation proceedings, opposition proceedings, post-grant review, *inter partes* review, covered business method review, and any similar proceedings.

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For any reason, including by operation of law, in any respect and in any jurisdiction:

- to the extent that the assignment, sale, and transfer fails, Assignor grants
 Assignee an unconditional, irrevocable, perpetual, worldwide, fully paid-up, royalty-free, exclusive license, including the right to sublicense;
- b. to the extent that the exclusive license fails, the exclusive license shall operate as a non-exclusive license; and
- to the extent that the non-exclusive license fails, Assignor grants Assignee,
 Assignee's successors in interest, and each of their respective direct and indirect customers, a covenant not-to-sue, binding on Assignor's successors in interest.

If any provision of this Assignment is determined to be invalid or unenforceable for any reason, including by operation of law, all other provisions shall remain in full force and effect, and the court or tribunal making such a finding shall substitute an enforceable provision that most closely reflects the original.

Assignor grants Harness, Dickey & Pierce, P.L.C. the power and authority to insert the corresponding application numbers, filing dates, and titles in the spaces provided above for any of the Patent Applications after execution of this Assignment,

Xiaoling ZHANG	Witness 1 Signature:	Tian Zhang
Xiaoling ZHANG 2019.06.20	Witness 1 Printed Name:	Tian Zhang
Dated	Witness 2 Signature:	Yiram LU
	Witness 2 Printed Name:	Yiran Lu