PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WOO-YOUNG CHOI	12/06/2016
SUNG-GEUN KIM	12/06/2016

RECEIVING PARTY DATA

Name:	INDUSTRY-ACADEMIC COOPERATION FOUNDATION, YONSEI UNIVERSITY
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15376346

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NAME OF SUBMITTER:	MAINAK H. MEHTA	
SIGNATURE:	/Mainak H. Mehta/	
DATE SIGNED:	12/12/2016	

Total Attachments: 1

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PATENT 504141548 REEL: 040716 FRAME: 0390

Assignment

Whereas, 1, Woo-Young CHOI of 101-ho, 39, Tojeong-ro 11-gil, Mapo-gu, Seoul 04075, Republic of Korea, Sung-Geun KIM of 610-dong 206-ho, 210, Sandu-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do 10358, Republic of Korea, hereinafter called assignor, have invented certain improvements in VOLTAGE CONTROLLED OSCILLATOR AND PHASE LOCKED LOOP COMPRISING THE SAME and executed an application for Letters Patent of the United States of America therefor; and

Whereas, INDUSTRY-ACADEMIC COOPERATION FOUNDATION, VONSEI UNIVERSITY of Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 120-749, Republic of Korea, desire to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I, the above named assignors, hereby sell, assign and transfer to the above named assignees, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignees, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignees in connection with the United States application when called upon to do so by the assignees.

I hereby authorize and request our attorneys PROCOPIO, CORV, HARGREAVES &

parentheses (Application n	Street Suite 2200, San Diego, CA 92101 to insert here in umber 15/376,346 and Confirmation number
and filing date of said appl	ecember 12, 2016) the application number, confirmation number ication when known.
12/6/2016	Ustogowy Chy
Date	Name : Woo-Young CHOI
12/6/2016	Set
Date	Name : Sung-Geun KIM

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 040716 FRAME: 0391