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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Han Byul SEO	07/03/2012
Byoung Hoon KIM	07/03/2012
Ki Jun KIM	07/03/2012
Hak Seong KIM	07/03/2012

RECEIVING PARTY DATA

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State/Country:	KOREA, REPUBLIC OF	
Postal Code: 150-721		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13574735

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ATTORNEY DOCKET NUMBER:	0465-3305PUS1
NAME OF SUBMITTER:	Esther H. Chong

Total Attachments: 2

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PATENT REEL: 028626 FRAME: 0965 TOP \$40.00 13574735

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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ASSIGNMENT

Application No.	13/574,735	Filed	July 23, 2012
Insert Name(s) of Inventor(s)	***(Given Name FAMILY NAM	ИЕ (ALL CAPS)))***
,	WHEREAS, SEO, Han Byul; KIM, Byoung designated as the undersigned) has (have) inventor	, ,	, ,
Insert Title of Invention	METHOD AND DEVICE FOR TRANSMITTING	A SOUNDING	G REFERENCE SIGNAL
	for which an application for Letters Patent of the undersigned (except in the case of a provisional a		es of America has been executed by the
Insert Date of Signing of	on July 3, 2012		; and
Application Insert Name of Assignce			
Insert Address of Assignce	of20 Yeouido-dong, Yeongdeungpo-gu Seoul	150-721 Repu	iblic of Korea
CHECK BOX	its heirs, successors, legal representatives and desirous of acquiring the entire right, title and int Patent(s) that may be granted therefor in the Unit x in any foreign countries.	terest in and to	said invention and in and to any Letters
	NOW, THEREFORE, in consideration of the su paid, the receipt of which is hereby acknowled undersigned has (have) sold, assigned and trar transfer unto said Assignee the full and exclusi America, its territories, dependencies and posses any and all Letters Patent(s) which may be g territories, dependencies and possessions, and is countries;	dged, and othensferred, and be ve right to the ssions and the ranted therefore	er good and valuable consideration, the by these presents does sell, assign and a said invention in the United States of entire right, title and interest in and to r in the United States of America, its
	and to any and all divisions, reissues, continuaterm or terms for which the same may be granted		ions and extensions thereof for the full

(LG Ref.: 11FCCM100US02)Attorney Docket No. 0465-3305PUS1

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree (s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	20121311	>	Name of Inventor	(signature) SEO, Han Byul
Date	2012/3/7	in any	n second by Name of Inventor for a sony for by cay are t	
Date	2012/3/1	,	Name of Inventor	スノフレン (signature) KIM, Ki Jun
Date	2012/3/1	2	Name of Inventor	ため (signature) KIM, Hak Seong

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