PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
lnuk Jung	06/14/2013
Jinsam Kwak	07/06/2013
Kiseon Ryu	07/04/2013
Wookbong Lee	07/04/2013

RECEIVING PARTY DATA

Name:	.G Electronics Inc.	
Street Address:	20 Yeouido-dong, Yeongdeungpo-gu	
City:	Seoul	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	150-721	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13992662

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	2101-5503
NAME OF SUBMITTER:	Harry S. Lee
Signature:	/Harry S. Lee/

502423349 REEL: 030818 FRAME: 0953

13992662

Date:	07/17/2013
Total Attachments: 4 source=2101-5503_Assignment#page1.tif source=2101-5503_Assignment#page2.tif source=2101-5503_Assignment#page3.tif source=2101-5503_Assignment#page4.tif	

PATENT REEL: 030818 FRAME: 0954

(1-8)	Insert Name(s) of	• •	Inuk JUNG		(5)	
	Inventor(s)	, ,	Jinsam KWAK		(6)	
		` '	Kiseon RYU		(7)	
		(4)	Wookbong LEE		(8)	
			valuable cons	iderations paid	one dollar (\$1.00) and other good to each of the undersigned, and hereby does assign, transfer	the
(9)	Insert name of Assigi	nee (9)	LG Electronics	Inc.		
(10)	Insert state of Incorporate of Assignee	oration (10)	Republic of Ko	rea		
(11)	Insert address of Ass	signee (11)	20 Yeouido-do Korea	ng, Yeongdeungp	o-gu, Seoul, 150-721, Republic of	
			einafter designa est in the invent		ee) the entire worldwide right, title	and
(12)	Insert identification of Invention, such as Tit Case Number or Fore	tle,		RYPTION KEY M LTICAST GROUP	ANAGEMENT FOR MACHINE TO	
	Application Number	<u></u>	in the United S		ave) executed an application for pat nd all patent applications in foreign or based thereon.	ent
	onal and continuing tute separate assignm	United States	and foreign ap	plications for the	in connection with any original, reis above-identified invention and als he Assignee may deem necessar	o to
		ncerning this	application or c	ontinuation or divi	ry in connection with any interfere sion thereof and to cooperate with a such interference.	
		with claims or			ents and perform any act which ma Convention for Protection of Indus	
of a v	The unders alid United States pate			affirmative acts wh	ich may be necessary to obtain a g	ırani
applic (they	etters Patents of the leations thereof to the have) full right to consement in conflict herew	United States in said Assigned invey the entire with.	resulting from s , as Assignee of interest herein	aid application or of the entire intere assigned, and tha	mmissioner of Patents to issue any any division or divisions or continest, and hereby covenants that he the has (they have) not executed	uing has any
insert rules	The undersigned he on this assignment ar of the United States P	ny further ident atent and Trad	ification which n emark Office for	nay be necessary of this		∍r to the
Date:	14 th June 2013	Signature of I	nventor (1)	- Nn	/ V	*****
Date:	ALLE CONTRACTOR OF THE CONTRAC	Signature of I	nventor (2)			
Date:		Signature of I	nventor (3)	ecolors (Arrandocke) y y program (Arrandocke) (Arrandocke) (Arrandocke) (Arrandocke) (Arrandocke) (Arrandocke)		RANKS N
Date:		Signature of I	nventor (4)			

PATENT REEL: 030818 FRAME: 0955

(1-8)	Insert Name(s) of	(1)	Inuk JUNG	(5)	
	Inventor(s)	(2)	Jinsam KWAK	(6)	
		(3)	Kiseon RYU	(7)	
		(4)	Wookbong LEE	(8)	
			valuable considerati	ne sum of one dollar (\$1.00 ons paid to each of to to assign, and hereby doe	he undersigned, the
(9)	Insert name of Assignee	(9)	LG Electronics Inc.		
(10)	Insert state of Incorporation of Assignee	(10)	Republic of Korea		
(11)	Insert address of Assignee	(11)	20 Yeouido-dong, Ye Korea	ongdeungpo-gu, Seoul, 150	-721, Republic of
			einafter designated as est in the invention kn	the Assignee) the entire wo	orldwide right, title and
(12)	Insert identification of Invention, such as Title, Case Number or Foreign	(12)	TRAFFIC ENCRYPT MACHINE MULTICA	ION KEY MANAGEMENT F ST GROUP	OR MACHINE TO
	Application Number		in the United States of	gned has (have) executed a if America and all patent app ing thereto or based thereor	olications in foreign
	4) The surface of a		1 A		

- The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.

The undersigned hereby appoints **the Attorneys associated with Customer No. 35884** 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 United States Patent and Trademark Office for recordation of this document.

Date:	***************************************	Signature of Inventor (1)
Date:	JULY 6, 2013	Signature of Inventor (2)
Date:		Signature of Inventor (3)
Date:		Signature of Inventor (4)

(1-8)	Insert Name(s) of Inventor(s)	(2) (3)	Inuk JUNG (5) Jinsam KWAK (6) Kiseon RYU (7) Wookbong LEE (8) In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to	
(9)	Insert name of Assignee	(9)	LG Electronics Inc.	
(10)	Insert state of Incorporation of Assignee	. ,	Republic of Korea	
(11)	Insert address of Assignee		20 Yeouido-dong, Yeongdeungpo-gu, Seoul, 150-721, Republic of Korea	
		inte	einafter designated as the Assignee) the entire worldwide right, title and rest in the invention known as	
(12)	Insert identification of Invention, such as Title, Case Number or Foreign	(12)	TRAFFIC ENCRYPTION KEY MANAGEMENT FOR MACHINE TO MACHINE MULTICAST GROUP	
Case Number or Foreign Application Number			for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.	
1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.				
which Assig	may be declared concerning	this	s) to execute all papers necessary in connection with any interference application or continuation or division thereof and to cooperate with the ng evidence and going forward with such interference.	
	The undersigned agasary in connection with clair erty or similar agreements.	ree(s ns or) to execute all papers and documents and perform any act which may be provisions of the International Convention for Protection of Industrial	
ofav	 The undersigned against United States patent to the) to perform all affirmative acts which may be necessary to obtain a grant gnee.	
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed any agreement in conflict herewith.				
insert rules	on this assignment any furthe	r iden	s the Attorneys associated with Customer No. 35884 the power to tification which may be necessary or desirable in order to comply with the demark Office for recordation of this document.	
Date:	Agent to the transfer of the t		Inventor (1)	
Date:	Signatu	ire of	Inventor (2)	
Date:	1-4-20/3 Signatu	ire of	Inventor (3)	

Date: _____ Signature of Inventor (4)_____

PATENT REEL: 030818 FRAME: 0957

		ASSIGNMENT	
	sert Name(s) of ventor(s)	(1) Inuk JUNG (5) (2) Jinsam KWAK (6) (3) Kiseon RYU (7) (4) Wookbong LEE (8) In consideration of the sum of one dollar (\$1,00) and other good and valuable considerations paid to each of the undersigned, the	
		undersigned agree(s) to assign, and hereby does assign, transfer and set over to	
(9) In:	sert name of Assigne	e (9) LG Electronics Inc.	
	sert state of Incorpor Assignee		
(11) In:	sert address of Assig	Korea	
		(hereinafter designated as the Assignee) the entire worldwide right, title and interest in the invention known as	
in	sert identification of evention, such as Title		
Case Number or Forei Application Number	for which the undersigned has (have) executed an application for patent in the United States of America and all patent applications in foreign countries corresponding thereto or based thereon.		
1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above-identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.			
which m	nav be declared con	gned agree(s) to execute all papers necessary in connection with any interference cerning this application or continuation or division thereof and to cooperate with the ole in obtaining evidence and going forward with such interference.	
necessa	3) The undersignsy in connection will yor similar agreemen	ned agree(s) to execute all papers and documents and perform any act which may be th claims or provisions of the International Convention for Protection of Industrial its.	
	4) The undersiged United States pater	ned agree(s) to perform all affirmative acts which may be necessary to obtain a grant at to the Assignee.	
all Lette applicati (they ha agreeme	ers Patents of the Uitions thereof to the save) full right to convient in conflict herewith The undersigned here this assignment and	gned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and hited States resulting from said application or any division or divisions or continuing aid Assignee, as Assignee of the entire interest, and hereby covenants that he has ey the entire interest herein assigned, and that he has (they have) not executed any h. reby appoints the Attorneys associated with Customer No. 35884 the power to further identification which may be necessary or desirable in order to comply with the tent and Trademark Office for recordation of this document.	
Date: _		Signature of Inventor (1)	
Date: _	esperante representation de la companya de la comp	Signature of Inventor (2)	
		Signature of Inventor (3)	
Date: _	July 4.2013	Signature of Inventor (4)	
		PATENT	

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RECORDED: 07/17/2013