

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5082066

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEONGYEON LIM	05/28/2013
JOONG GUNN PARK	05/28/2013
BYEUNGWOO JEON	05/30/2013
JOOHEE MOON	06/03/2013
YUNGLYUL LEE	07/12/2013
HAEKWANG KIM	07/13/2013
JONGKI HAN	06/03/2013
JUNG YOUP YANG	07/01/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SK TELECOM CO., LTD.
<b>Street Address:</b>	65, EULJI-RO JUNG-GU
<b>City:</b>	SEOUL
<b>State/Country:</b>	KOREA, REPUBLIC OF
<b>Postal Code:</b>	100-999
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16054195
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)518-5499
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	7036841111
<b>Email:</b>	docketing@ipfirm.com, yshgroup@ipfirm.com
<b>Correspondent Name:</b>	HAUPTMAN HAM, LLP
<b>Address Line 1:</b>	2318 MILL ROAD
<b>Address Line 2:</b>	SUITE 1400
<b>Address Line 4:</b>	ALEXANDRIA, VIRGINIA 22314
<b>ATTORNEY DOCKET NUMBER:</b>	5100-0006CON2
<b>NAME OF SUBMITTER:</b>	YOON S. HAM
<b>SIGNATURE:</b>	/Yoon S. Ham/

PATENT

<b>DATE SIGNED:</b>	08/03/2018
<b>Total Attachments: 9</b> source=F-Assignment#page1.tif source=F-Assignment#page2.tif source=F-Assignment#page3.tif source=F-Assignment#page4.tif source=F-Assignment#page5.tif source=F-Assignment#page6.tif source=F-Assignment#page7.tif source=F-Assignment#page8.tif source=F-Assignment#page9.tif	

Docket No.:

## ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- 1) LIM, Jeongyeon
- 2) PARK, Joong Gunn
- 3) JEON, Byeungwoo
- 4) MOON, Joohee
- 5) LEE, Yunglyul
- 6) KIM, Haekwang
- 7) HAN, Jongki
- 8) YANG, Jung Youp

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

SK TELECOM.CO., LTD, a Korean Corporation having a place of business at 11, Euljiro 2-ga, Jung-gu, Seoul  
100-999, Republic of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

### ENCODING/DECODING APPARATUS AND METHOD USING FLEXIBLE DEBLOCKING FILTERING

- (a) for which an application for United States Letters Patent was filed on \_\_\_\_\_,  
and identified by United States Patent Application No. \_\_\_\_\_; or
- (b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) lylim  
Name: LIM, Jeongyeon

2013/05/28  
Date:

2) 박종건  
Name: PARK, Joong Gunn

2013/05/28  
Date:

3) \_\_\_\_\_  
Name: JEON, Byeungwoo

\_\_\_\_\_  
Date:

4) \_\_\_\_\_  
Name: MOON, Joohee

\_\_\_\_\_  
Date:

5) \_\_\_\_\_  
Name: LEE, Yunglyul

\_\_\_\_\_  
Date:

6) \_\_\_\_\_  
Name: KIM, Haekwang

\_\_\_\_\_  
Date:

7) \_\_\_\_\_  
Name: HAN, Jongki

\_\_\_\_\_  
Date:

8)

Name: YANG, Jung Youp

Date:

PATENT

REEL: 046550 FRAME: 0204

Docket No.:

## ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- 1) LIM, Jeongyeon
- 2) PARK, Joong Gunn
- 3) JEON, Byeungwoo
- 4) MOON, Joohee
- 5) LEE, Yunglyul
- 6) KIM, Hackwang
- 7) HAN, Jongki
- 8) YANG, Jung Youp

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

SK TELECOM.CO., LTD, a Korean Corporation having a place of business at 11, Euljiro 2-ga, Jung-gu, Seoul  
100-999, Republic of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

### ENCODING/DECODING APPARATUS AND METHOD USING FLEXIBLE DEBLOCKING FILTERING

- (a) for which an application for United States Letters Patent was filed on \_\_\_\_\_  
\_\_\_\_\_, and identified by United States Patent Application No. \_\_\_\_\_; or
- (b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) \_\_\_\_\_  
Name: LIM, Jeongyeon

\_\_\_\_\_  
Date:

2) \_\_\_\_\_  
Name: PARK, Joong Gunn

\_\_\_\_\_  
Date:

3)  \_\_\_\_\_  
Name: JEON, Byeungwoo

2013 MAY 30  
\_\_\_\_\_  
Date:

4) \_\_\_\_\_  
Name: MOON, Joohee

\_\_\_\_\_  
Date:

5) \_\_\_\_\_  
Name: LEE, Yunglyul

\_\_\_\_\_  
Date:

6) \_\_\_\_\_  
Name: KIM, Haekwang

\_\_\_\_\_  
Date:

7) \_\_\_\_\_  
Name: HAN, Jongki

\_\_\_\_\_  
Date:

8)

Name: YANG, Jung Youp

Date:

PATENT

REEL: 046550 FRAME: 0207



Docket No.:

## ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- 1) LIM, Jeongyeon
- 2) PARK, Joong Gunn
- 3) JEON, Byeungwoo
- 4) MOON, Joohee
- 5) LEE, Yunglyul
- 6) KIM, Hackwang
- 7) HAN, Jongki
- 8) YANG, Jung Youp

who has made a certain new and useful invention, hereby sells, assigns and transfers unto

SK TELECOM.CO., LTD, a Korean Corporation having a place of business at 11, Euljiro 2-ga, Jung-gu, Seoul  
100-999, Republic of Korea

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

### ENCODING/DECODING APPARATUS AND METHOD USING FLEXIBLE DEBLOCKING FILTERING

- (a) for which an application for United States Letters Patent was filed on \_\_\_\_\_  
and identified by United States Patent Application No. \_\_\_\_\_; or
- (b) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, reissues, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agrees to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the date indicated aside my signature:

1) \_\_\_\_\_  
Name: LIM, Jeongyeon Date: \_\_\_\_\_

2) \_\_\_\_\_  
Name: PARK, Joong Gunn Date: \_\_\_\_\_

3) \_\_\_\_\_  
Name: JEON, Byeungwoo Date: \_\_\_\_\_

4) Joohee Moon  
Name: MOON, Joohee Date: June 13/2013

5) Lee Yungyul  
Name: LEE, Yungyul Date: July 12, 2013

6) Kim Hae  
Name: KIM, Haekwang Date: July 13, 2013

7) Han Jongki  
Name: HAN, Jongki Date: June 13/2013

8)

  
Name: YANG, Jung Youp

Date:

July 1, 2013