04/22/2015 503275864

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3322482

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| HAYOON KIM | 03/04/2011 |
| BYEUNGWOO JEON | 03/07/2011 |
| JOOHEE MOON | 02/16/2011 |
| YUNGLYUL LEE | 02/25/2011 |
| HAEKWANG KIM | 02/28/2011 |
| JUNGYOUP YANG | 03/07/2011 |
| KWANGHYUN WON | 03/07/2011 |

RECEIVING PARTY DATA

| Name: | SK TELECOM CO., LTD. | |
|-----------------|---------------------------|--|
| Street Address: | 11, EULJIRO 2-GA, JUNG-GU | |
| City: | SEOUL | |
| State/Country: | KOREA, REPUBLIC OF | |
| Postal Code: | 100-999 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14693778 |

CORRESPONDENCE DATA

Fax Number: (703)518-5499

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.

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Address Line 4: ALEXANDRIA, VIRGINIA 22314

| ATTORNEY DOCKET NUMBER: | 126587-0060CON3 | |
|-------------------------|-----------------|--|
| NAME OF SUBMITTER: | YOON S. HAM | |
| SIGNATURE: | /Yoon S. Ham/ | |
| DATE SIGNED: | 04/22/2015 | |

PAIENI **REEL: 035474 FRAME: 0519** 503275864

Total Attachments: 2

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PATENT REEL: 035474 FRAME: 0520

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) KIM, Hayoon
- 2) JEON, Byeungwoo
- 3) MOON, Joohee
- 4) LEE, Yungiyul
- 5) KIM, Haekwang
- 6) YANG, Jungyoup
- 7) WON, Kwanghyun

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, Junggu, 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

METHOD AND APPARATUS FOR MOTION VECTOR ENCODING/DECODING USING A PLURALITY OF MOTION VECTOR ESTIMATIONS, AND METHOD AND APPARATUS FOR IMAGE ENCODING/DECODING USING SAME (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 |
| issue an | undersigned hereby authorizes and requests the United States Commissioner of Patents and Trademarks to y and all United States Letters Patent which may be granted therefore and any and all extensions, divisions, continuations, or continuations-in-part thereof, and the right to all benefits under the International |
| Conven | tion for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its |

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.

successors, assigns and legal representatives; the undersigned agrees that the attorneys of record in said application

SIGNED on the date indicated aside my signature:

shall hereafter act on behalf of said ASSIGNEE;

| 1) Name: KIM, Hayoon Date: |
|----------------------------|
|----------------------------|

PATENT REEL: 035474 FRAME: 0521

| 2) | Mar. 1,2011 |
|-------------------------|----------------|
| Name: JEON, Byeungwoo | Date: |
| 3) _ Dwhee Mrn_ | Feb. 16, 2011 |
| Name: MOON, Joohee | Date: |
| 4) Leefnight | Feb. 25 , 2011 |
| Name : LEE, Yungiyul | Date: |
| 5) | Treb. 78,2011 |
| Name: KIM, Haekwang | Date: |
| 6) Name: YANG, Jungyoup | Mar. 7, 2011 |
| rame. I Arres, Jungyoup | Date: |
| 7) | Mar. 7 2011 |
| Name: WON, Kwanghyun | Date: |

Date: