503379584 07/06/2015

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------|----------------|
| ELENA ALSHINA | 07/03/2015 |
| ALEXANDER ALSHIN | 07/03/2015 |

RECEIVING PARTY DATA

| Name: | SAMSUNG ELECTRONICS CO., LTD. |
|-----------------|--|
| Street Address: | 129, SAMSUNG-RO, YEONGTONG-GU, GYEONGGI-DO |
| City: | SUWON-SI |
| State/Country: | KOREA, REPUBLIC OF |
| Postal Code: | 443-742 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14759319 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | Q209310 | | |
|-------------------------|--|--|--|
| NAME OF SUBMITTER: | FER: SACHIKO REYNOLDS (TEAMS DEPT) | | |
| SIGNATURE: | /Sachiko Reynolds (Teams Dept)/ | | |
| DATE SIGNED: | 07/06/2015 | | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | | |

Total Attachments: 2

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PATENT REEL: 035983 FRAME: 0093

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Docket No.:

Q209310; SEC

Ref.: MH2013010071US1 Only After Sept 16, 2012

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ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, We, the undersigned inventors hereinafter called assignors, have invented certain improvements described in the application identified below; and

Whereas, <u>SAMSUNG ELECTRONICS CO., LTD. of 129</u>, <u>Samsung-ro.</u> Yeongtong-gu, <u>Sinvon-si.</u> <u>Gyeonggi-do. 443-742</u>. <u>Republic of Korea</u>, (assignee), desires 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,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, 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 USC 119 and the right to sue for past damages, 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 assignee, its successors and assigns; and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

| (Logalization not required for recording but is prima facile evidence of execution under 35 USC 261) | | | | | |
|--|---------|---|--|--|--|
| As the below named inventor, I hereb | y decla | re that: | | | |
| This assignment with declaration is directed to: | Ø | The attached application, or | | | |
| The application is entitled: | | United States Application or PCT International Application Number | | | |

SCALABLE VIDEO ENCODING METHOD AND APPARATUS USING IMAGE UP-SAMPLING IN CONSIDERATION OF PHASE-SHIFT AND SCALABLE VIDEO DECODING METHOD AND APPARATUS

The above identified application was made or was authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application,

I have reviewed and understand the contents of the application for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

I hereby acknowledge that any willful false statement made in this assignment with declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

PATENT REEL: 035983 FRAME: 0094

| NAME OF SOLE OR FIRST INVENTOR: | | | | | |
|---|-----------------------------|-------------------------------|----------------------------|--|--|
| Given Name | | | | | |
| (first and middle [if any]) | Blena | Family Name or Surname | ALSHINA | | |
| Inventor's signature | <u> </u> | Date | 2015:07.05 | | |
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| NAME OF SECOND INVENTOR: | | | | | |
| Given Name (first and middle (if any)) | Alexander | Family Name or Surname | ALSHIN | | |
| Inventor's signature | J. W. | Date | 2015.61 03 | | |
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