

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7421200

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HUMAX CO., LTD.	06/30/2022

RECEIVING PARTY DATA

Name:	WILUS INSTITUTE OF STANDARDS AND TECHNOLOGY INC.
Street Address:	5F 216 HWANGSAEUL-RO BUNDANG-GU
City:	SEONGNAM-SI GYEONGGI-DO
State/Country:	KOREA, REPUBLIC OF
Postal Code:	13595

PROPERTY NUMBERS Total: 17

Property Type	Number
Application Number:	16964967
Application Number:	16964949
Patent Number:	11166040
Application Number:	17460117
Patent Number:	11317118
Application Number:	17697811
Application Number:	17223419
Application Number:	17282745
Application Number:	17227839
Application Number:	17234688
Application Number:	17244083
Application Number:	17333887
Application Number:	17348260
Application Number:	17750300
Application Number:	17844330
Patent Number:	11330302
Application Number:	17716956

CORRESPONDENCE DATA

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SIGNATURE:	/James Y Kim/
DATE SIGNED:	07/07/2022

Total Attachments: 5

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ASSIGNMENT OF PATENT RIGHTS

WHEREAS, HUMAX CO., LTD., located at 2 Yeongmun-ro Cheoin-gu Yongin-si Gyeonggi-do 17040, Republic of Korea, hereinafter referred to as "ASSIGNOR", is an assignee, by assignment recorded in the U.S. Patent and Trademark Office, of the invention described and set forth in the below-identified United States Letters Patent (collectively "Patent Rights");

WHEREAS, Chang Soo Jung, a Head of Business Management Group and authorized representative at HUMAX CO., LTD., is a duly authorized representative of HUMAX CO., LTD., having authority to sell, assign, and transfer to a third party the below-identified inventions and United States Letters Patents and Patent Applications (collectively "Patent Rights");

WHEREAS, WILUS INSTITUTE OF STANDARDS AND TECHNOLOGY INC., located at 5F 216 Hwangsaeul-ro Bundang-gu Seongnam-si Gyeonggi-do 13595, Republic of Korea, hereinafter referred to as "ASSIGNEE," are desirous of acquiring ASSIGNOR's interest in the said invention and the below-identified United States Letters Patents and Patent Applications (collectively "Patent Rights");

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said ASSIGNEE and ASSIGNEE'S successors and assigns, all their right, title and interest in and to the said invention and the below-identified U.S. Letters Patent and Patent Applications and any reissues or extensions that may issue from the below-identified U.S. Letters Patent (collectively "Patent Rights"). The right, title, and interest conveyed in this Assignment is to be held and enjoyed by ASSIGNEE and ASSIGNEE'S successors as fully and exclusively as it would have been held and enjoyed by ASSIGNOR had this assignment not been made, to the full end and term of any Letters Patent which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof. ASSIGNOR's right, title and interest in and to the Patent Rights further includes, but not limited to, all right, title and interest in and to all causes of action (whether currently pending, filed, or otherwise) and other

enforcement rights, including, without limitation, all rights under the **Patent Rights** listed below to (i) damages, (ii) injunctive relief, and (iii) other remedies of any kind for past, current and future infringement; and (e) all rights to collect royalties and other payments under the foregoing.

ASSIGNOR further agree that they will, without charge to ASSIGNEE, but at ASSIGNEE'S expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement, and to vest title thereto in ASSIGNEE, or ASSIGNEE'S successors and assigns.

ASSIGNOR hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be made which would conflict with this Assignment.

ASSIGNOR hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention which may be granted upon any of the Patent Rights in the name of ASSIGNEE, as ASSIGNEE to the entire interest therein.

The terms and conditions of this Assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, its successor, assigns and other legal representatives.

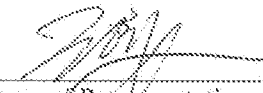
Patent Rights

Patent No. or Application No.	Filing Date	Title	Reel/ Frame No.
16/964,967	07/24/2020	METHOD AND APPARATUS FOR VIDEO SIGNAL PROCESSING USING SUB-BLOCK BASED MOTION COMPENSATION	053309 / 0401
16/964,949	07/24/2020	VIDEO SIGNAL PROCESSING METHOD AND DEVICE	053309 / 0009
11,166,040	07/12/2020	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING ADAPTIVE MOTION VECTOR RESOLUTION	054561 / 0748
17/460,117	08/27/2021	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING ADAPTIVE MOTION VECTOR RESOLUTION	054561 / 0748
11,317,118	02/25/2021	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING MULTIPLE TRANSFORM KERNELS	055416 / 0794
17/697,811	03/17/2022	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING MULTIPLE TRANSFORM KERNELS	055416 / 0794
17/223,419	04/06/2021	METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL USING MPM CONFIGURATION METHOD FOR MULTIPLE REFERENCE LINES	055837 / 0406
17/282,745	04/02/2021	METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL BY USING CROSS-COMPONENT LINEAR MODEL	055813 / 0754
17/227,839	04/12/2021	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING MULTI-ASSUMPTION PREDICTION	055892 / 0130
17/234,688	04/19/2021	METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL BY USING SUBBLOCK-BASED MOTION COMPENSATION	055964 / 0099
17/244,083	04/29/2021	VIDEO SIGNAL PROCESSING METHOD AND DEVICE FOR SIGNALING PREDICTION MODE	056084 / 0315
17/333,887	05/28/2021	VIDEO SIGNAL PROCESSING METHOD AND DEVICE USING INTRA PREDICTION FILTERING	056386 / 0059
17/348,260	06/15/2021	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING MULTIPLE TRANSFORM KERNEL	056551 / 0282

17/750,300	05/21/2022	METHOD AND DEVICE FOR PROCESSING VIDEO SIGNAL BY USING ADAPTIVE COLOR SPACE TRANSFORM	059977 / 0233
17/844,330	06/20/2022	VIDEO SIGNAL PROCESSING METHOD AND DEVICE THEREFOR	060251 / 0144
11,330,302	11/03/2020	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING SECONDARY TRANSFORM	054258 / 0045
17/716,956	04/08/2022	VIDEO SIGNAL PROCESSING METHOD AND APPARATUS USING SECONDARY TRANSFORM	054258 / 0045

IN TESTIMONY WHEREOF, ASSIGNOR has signed this Assignment on the date indicated.

2022. 06. 30
Date:


Signature of Representative
HUMAX CO., LTD.

Business Management Group
Title

Chang Soo Jung
Printed Name