

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KABUSHIKI KAISHA TOSHIBA	04/20/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TOSHIBA VISUAL SOLUTIONS CORPORATION
<b>Street Address:</b>	3-31-2776, MINAMI-CHO
<b>City:</b>	MISAWA-SHI, AOMORI
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	033-0036
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15141702
<b>Application Number:</b>	14874827
<b>Application Number:</b>	62087100
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<b>SIGNATURE:</b>	/Damien J. Howard/
<b>DATE SIGNED:</b>	04/26/2018
<b>Total Attachments: 2</b>	
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ASSIGNMENT

WHEREAS, **KABUSHIKI KAISHA TOSHIBA**, a Japan corporation having offices at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan 105-8001; and **TOSHIBA VISUAL SOLUTIONS CORPORATION**, a Japan corporation having offices at 3-31-2776, Minami-cho, Misawa-shi, Aomori, Japan 033-0036, are the co-owners of the of the entire right, title, and interest to certain new and useful improvements described in the United States Patent Applications and Patents listed below (hereinafter "the Patent Assets"):

<u>Application No.</u>	<u>Filing Date</u>	<u>Title</u>
15/141702	April 28, 2016	VIDEO SENDER AND VIDEO RECEIVER
14/874827	October 5, 2015	ELECTRONIC DEVICE, METHOD, AND COMPUTER PROGRAM PRODUCT
62/087100	December 3, 2014	ELECTRONIC DEVICE, METHOD AND COMPUTER PROGRAM PRODUCT

WHEREAS, **TOSHIBA VISUAL SOLUTIONS CORPORATION**, (hereinafter "ASSIGNEE"), having offices at 3-31-2776, Minami-cho, Misawa-shi, Aomori, Japan 033-0036 desires to acquire that portion of the right, title, and interest in and to said improvements and the said Patent Assets which is now held by **KABUSHIKI KAISHA TOSHIBA** (hereinafter "ASSIGNOR"), such that ASSIGNEE will become the sole owner of the entire right, title, and interest in and to the inventions disclosed in the Patent Assets;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, ASSIGNOR's right, title, and interest throughout the world in, to, and under the said improvements, and the said Patent Assets and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patent Assets in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patent Assets to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Patents before or after issuance;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patent Assets immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patent Assets, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patent Assets in all countries.

**Assignor (Conveying Party)**

KABUSHIKI KAISHA TOSHIBA  
1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan

By: *Ikuko Shimagawara*

Name: Ikuko SHIMOGAWARA

Title: General Manager, Intellectual Property Division

Date: *Apr 20, 2018*

**Assignee (Receiving Party)**

TOSHIBA VISUAL SOLUTIONS CORPORATION  
3-31-2776, Minami-cho, Misawa-shi, Aomori, Japan

By: *Hiroshi Honda*

Name: Hiroshi HONDA

Title: Group Manager, Intellectual Property Group

Date: *April 13, 2018*

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