

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4444368

|                                                                                                                                                                                                 |                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                                     |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                                         |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                                    |
| <b>Name</b>                                                                                                                                                                                     | <b>Execution Date</b>                              |
| TORU KUMAKURA                                                                                                                                                                                   | 08/19/2014                                         |
| SHIGERU FUKUSHIMA                                                                                                                                                                               | 08/04/2014                                         |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                                    |
| <b>Name:</b>                                                                                                                                                                                    | JVC KENWOOD CORPORATION                            |
| <b>Street Address:</b>                                                                                                                                                                          | 12, MORIYA-CHO 3-CHOME, KANAGAWA-KU                |
| <b>City:</b>                                                                                                                                                                                    | YOKOHAMA-SHI, KANAGAWA                             |
| <b>State/Country:</b>                                                                                                                                                                           | JAPAN                                              |
| <b>Postal Code:</b>                                                                                                                                                                             | 221-0022                                           |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                                    |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                                      |
| <b>Application Number:</b>                                                                                                                                                                      | 15613776                                           |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                                    |
| <b>Fax Number:</b>                                                                                                                                                                              | (202)344-8300                                      |
| <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>                                                                                                                                                                                   | 202-344-4000                                       |
| <b>Email:</b>                                                                                                                                                                                   | emgonzales@venable.com, masartori.team@venable.com |
| <b>Correspondent Name:</b>                                                                                                                                                                      | VENABLE LLP                                        |
| <b>Address Line 1:</b>                                                                                                                                                                          | P.O. BOX 34385                                     |
| <b>Address Line 4:</b>                                                                                                                                                                          | WASHINGTON, D.C. 20043-9998                        |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 119547.417266                                      |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | KAILIE R. MACKEVERICAN                             |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Kailie R. MacKeverican/                           |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 06/05/2017                                         |
| <b>Total Attachments: 3</b>                                                                                                                                                                     |                                                    |
| source=417266 Assignment#page1.tif                                                                                                                                                              |                                                    |
| source=417266 Assignment#page2.tif                                                                                                                                                              |                                                    |
| source=417266 Assignment#page3.tif                                                                                                                                                              |                                                    |

## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Toru KUMAKURA residing at c/o Intellectual Property Department, JVC KENWOOD Corporation, 12, Moriya-cho 3-chome, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022 Japan and Shigeru FUKUSHIMA residing at c/o Intellectual Property Department, JVC KENWOOD Corporation, 12, Moriya-cho 3-chome, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022 Japan (hereinafter referred to as Assignors);

**WHEREAS**, Assignors have invented certain new and useful improvements in PICTURE CODING DEVICE, PICTURE CODING METHOD, AND PICTURE CODING PROGRAM, AND PICTURE DECODING DEVICE, PICTURE DECODING METHOD, AND PICTURE DECODING PROGRAM:

☒ the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the U.S. Patent and Trademark Office;

☐ said application having been filed in the U.S. Patent and Trademark Office on     and given Application No. ;

☐ said application having been filed under the Patent Cooperation Treaty on April 12, 2013 and given International Application No. PCT/JP2013/002514, the United States of America having been designated.

**WHEREAS**, JVC KENWOOD Corporation of 12, Moriya-cho 3-chome, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022 Japan (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set

over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

VENABLE LLP

All practitioners at Customer Number 26694

**Assignor:**

***Toru KUMAKURA***

\_\_\_\_\_  
Assignor Name

*Toru Kumakura*

\_\_\_\_\_  
Signature

Executed on:

*Aug. 19, 2014*

\_\_\_\_\_  
Date

**Assignor:**

***Shigeru FUKUSHIMA***

\_\_\_\_\_  
Assignor Name

*Shigeru Fukushima*

\_\_\_\_\_  
Signature

Executed on:

*08/07/2014*

\_\_\_\_\_  
Date