

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHARP KABUSHIKI KAISHA	05/30/2019
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<b>State/Country:</b>	JAPAN
<b>PROPERTY NUMBERS Total: 9</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	6521998
Patent Number:	7567128
Patent Number:	7629632
Patent Number:	7782099
Patent Number:	8004022
Patent Number:	8017977
Patent Number:	8232580
Patent Number:	8766275
Patent Number:	9111839
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PATENT

<b>DATE SIGNED:</b>	06/07/2019
<b>Total Attachments: 1</b> source=US_AD#page1.tif	

UNITED STATES OF AMERICA

ASSIGNMENT OF PATENT

U.S. Patent Nos.: 6521998; 7567128; 7629632; 7782099; 8004022; 8017977; 8232580; 8766275; 9111839

For good and valuable consideration in hand paid, the receipt and sufficiency whereof are hereby acknowledged, **Sharp Kabushiki Kaisha**, a corporation organized under the laws of Japan, having an address at 22-22, Nagaike-Cho, Abeno-Ku, Osaka-Shi, Osaka 545-8522, Japan (Assignor), hereby sells, assigns, transfers and sets over to **Murata Manufacturing Co., Ltd.**, a corporation organized under the laws of Japan, having an address at 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555, Japan (Assignee) and to the successors and assigns of Assignee, the entire right, title and interest in the invention or improvements of the undersigned disclosed in the U.S. Patent Nos. mentioned above; THEREOF, and in said patents and any and all other applications, both United States and foreign, which the undersigned may have filed and/or may file, either solely or jointly with others, on said inventions or improvements in any United States or foreign patent application claiming priority from, or claiming the same or improved invention as, any or all of the applications upon which said U.S. Patents issued, and in any and all Letters Patent or industrial models of the United States and foreign countries which may be obtained on any of said applications and in any reissue or extension of such patents, for the full term or terms for which said Patent, Patents or Industrial Design are or may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment and sale not been made; together with all claims for damages by reason of past infringement of any or all of said Patents with the right to sue for and collect the same.

Assignor warrants itself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interests herein assigned. Assignor hereby covenants that no other assignment, sale, agreement or encumbrance will be made or entered into which would conflict with this sale and assignment.

Assignor further covenants that Assignee will, upon its request and at the expense of Assignee, be provided promptly with all pertinent facts and documents relating to said inventions and said Letters Patents and legal equivalents as may be known and accessible to Assignor and will testify or cause appropriate persons to testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute or have executed, to the best of its ability, and deliver to Assignee or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce any and all of said applications, said inventions and said letters patent and foreign equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

**Sharp Kabushiki Kaisha**

30. May, 2019  
Date



By: Mototaka Taneya  
Managing officer, BU President, Corporate R&D BU  
(Assignor)

To be simply signed