

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
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Property Type	Number
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Total Attachments: 1	
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CORPORATE-TO-CORPORATE ASSIGNMENT

WHEREAS, Sharp Laboratories of America, Inc. (hereinafter "SLA"), a corporation of the State of Washington, having a place of business at 17200 SE Mill Plain Blvd., Suite 200, Vancouver, WA 98683, is, by one or more assignment documents recorded in the assignment records of the United States Patent and Trademark Office (hereinafter "USPTO"), a record assignee of all or part of an invention entitled:

"CODEBOOK DETERMINATION OF HARQ-ACK MULTIPLEXING WITH FALLBACK DOWNLINK CONTROL INFORMATION (DCI) AND CODE BLOCK GROUP (CBG) CONFIGURATIONS"

invented by Zhanping Yin et al. (hereinafter "said Invention"), including all or part of the following patent applications filed by SLA in the USPTO pertaining thereto:

- (1) A provisional patent application filed on November 16, 2017, Serial No. 62/587,332 (hereinafter "the '332 provisional application");
- (2) A PCT application filed on November 14, 2018, Serial No. PCT/US2018/061122 (hereinafter "the '122 PCT application"); and
- (3) A non-provisional patent application filed November 15, 2018, Serial No. 16/191,932 (hereinafter "the '932 non-provisional application");

WHEREAS, Sharp Kabushiki Kaisha (hereinafter "Sharp"), a Japanese Corporation, having an address at 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan, is the parent company and owner of SLA; and

WHEREAS, SLA and Sharp wish to transfer ownership of all of SLA's ownership interest in said Invention, the '332 provisional application, the '932 non-provisional application and the '122 PCT application, from SLA to Sharp;

NOW THEREFORE, for good and valuable consideration acknowledged by SLA to have been received in full from Sharp, SLA does hereby sell, assign, transfer, convey, and quitclaim unto Sharp all of SLA's right, title and interest in and to said Invention, the '332 provisional application, the '932 non-provisional application and the '122 PCT application.

The terms and covenants of this Assignment shall inure to the benefit of Sharp, its successors, assigns and other legal representatives, and shall be binding upon SLA, its successors, assigns and other legal representatives.

The undersigned is authorized to act on behalf of the present assignee, SLA.

Sharp Laboratories of America, Inc.

Dated: October 23, 2020

/David C. Ripma/

David C. Ripma, Registration No. 27,672
Patent Counsel of MiiCs IP, Inc. a subsidiary of
SBPJ Co., Ltd. and Sharp Corporation