

## 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>
SHARP LABORATORIES OF AMERICA, INC.	10/09/2018
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<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	590-8522
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15970251
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<b>ATTORNEY DOCKET NUMBER:</b>	SLA3739
<b>NAME OF SUBMITTER:</b>	HATTIE E. GOLDIE
<b>SIGNATURE:</b>	/Hattie E. Goldie/
<b>DATE SIGNED:</b>	10/09/2018
<b>Total Attachments: 1</b>	
source=SLA3739 Corp-to-Corp Early Assignment#page1.tif	

## 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 5750 NW Pacific Rim Boulevard, Camas, Washington 98607, is, by assignment documents recorded in the assignment records of the United States Patent and Trademark Office, at Reel / Frame: 042599 / 0995 and 046081 / 0288 the present assignee and record owner of an invention entitled:

### **“Hybrid Automatic Repeat Request for Uplink Ultra-Reliable and Low-Latency Communications”**

invented by Kai Ying et al. (hereinafter "said Invention"), including a US provisional patent application filed by SLA on May 4, 2017, Serial No. 62/501,489, pertaining thereto (hereinafter "the ‘489 provisional application"); a US non-provisional patent application filed by SLA on May 3, 2018, Serial No. 15/970,251, pertaining thereto (hereinafter "the ‘251 non-provisional application"); which is a continuation of a PCT filed by SLA in the USPTO, on May 2, 2018, Serial No. PCT/US2018/030686 (hereinafter "the ‘686 PCT application"), claiming priority to the ‘489 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 said Invention, including the ‘489 provisional application, ‘251 non-provisional application and the ‘686 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, including the ‘489 provisional application, ‘251 non-provisional application and the ‘686 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 9, 2018

/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