

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5180277

<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
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SHARP KABUSHIKI KAISHA
<b>Street Address:</b>	1 TAKUMI-CHO, SAKAI-KU
<b>City:</b>	SAKAI CITY, OSAKA
<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:	15970091
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(360)817-8505
<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>Email:</b>	goldieh@sharplabs.com
<b>Correspondent Name:</b>	DAVID C. RIPMA
<b>Address Line 1:</b>	SHARP LABORATORIES OF AMERICA, INC.
<b>Address Line 2:</b>	5750 NW PACIFIC RIM BLVD.
<b>Address Line 4:</b>	CAMAS, WASHINGTON 98607
<b>ATTORNEY DOCKET NUMBER:</b>	SLA3740
<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=SLA3740 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: 042409 / 0282 and 046261 / 0970 the present assignee and record owner of an invention entitled:

### **“Short PUCCH Formats and Scheduling Request (SR) Transmission for 5th Generation (5G) New Radio Access Technology (NR)”**

invented by Zhanping Yin et al. (hereinafter "said Invention"), including a US provisional patent application filed by SLA on May 4, 2017, Serial No. 62/501,305, pertaining thereto (hereinafter "the '305 provisional application"); a US non-provisional patent application filed by SLA on May 3, 2018, Serial No. 15/970,091, pertaining thereto (hereinafter "the '091 non-provisional application"); which is a continuation of a PCT filed by SLA in the USPTO, on May 2, 2018, Serial No. PCT/US2018/030685 (hereinafter "the '685 PCT application"), claiming priority to the '305 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 '305 provisional application, '091 non-provisional application and the '685 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 '305 provisional application, '091 non-provisional application and the '685 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