

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT	
EFFECTIVE DATE:	03/11/2010	
CONVEYING PARTY DATA		
	Name	Execution Date
	SHARP LABORATORIES OF AMERICA, INC.	03/11/2010
RECEIVING PARTY DATA		
Name:	SHARP KABUSHIKI KAISHA AKA SHARP CORPORATION	
Street Address:	22-22, NAGAIKE-CHO, ABENO-KU	
City:	OSAKA	
State/Country:	JAPAN	
Postal Code:	3/11/2010	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Patent Number:	7045401
CORRESPONDENCE DATA		
Fax Number:	(703)739-2815	
<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>		
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NAME OF SUBMITTER:	HEIDI WHITTINGHAM	
SIGNATURE:	HMW/IPR/NH/Complex-Sharp-ACQ/AG14/1PT	
DATE SIGNED:	10/10/2016	
Total Attachments: 2		
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NUNC PRO TUNC CONFIRMATORY ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, SHARP LABORATORIES OF AMERICA, INC. (hereinafter "SLA"), a corporation of the State of Washington, having an address at 5750 NW Pacific Rim Blvd., Camas, Washington 98607, USA ("**Assignor**"), hereby confirms the Corporate-to-Corporate Assignments, executed for the patents listed in the table below on the dates listed in the table below and recorded at the Reel/Frames listed in the table below. The effective date of this nunc pro tunc confirmatory assignment for each listed patent is listed in the table below. SLA does hereby sell, assign, transfer and convey unto SHARP KABUSHIKI KAISHA (hereinafter "Sharp"), a Japanese corporation having an address at 22-22, Nagaike-cho, Abeno-ku, Osaka, 545-8522, Japan ("**Assignee**"), all of Assignor's entire right, title and interest in and to (a) all patents listed in the table below; and (b) all reissues, reexaminations, continuations, parents, continuations-in-part, divisionals and extensions of such patents; (collectively "**Patent Rights**"):

Patent No.	Serial No.	Country	Reel/Frame	Execution Date	Effective Date of Nunc Pro Tunc Confirmatory Assignment
7358107	11/260955	US	020995/0872	5/27/2008	5/27/2008
7361526	11/353802	US	020995/0509	5/27/2007	5/27/2007
7927909	12/434118	US	026338/0868	5/25/2011	5/25/2011
8106473	13/050689	US	028053/0886	4/16/2012	4/16/2012
7651880	11/592465	US	024120/0743	3/23/2010	3/23/2010
7906825	12/630893	US	026263/0958	5/11/2011	5/11/2011
7008813	11/069424	US	024091/0359	3/17/2010	3/17/2010
7271023	11/174035	US	020866/0138	4/28/2008	4/28/2008
7186611	11/240969	US	019795/0678	9/10/2007	9/10/2007
7276392	11/261191	US	020986/0641	5/23/2008	5/23/2008
7405098	11/339017	US	021428/0888	8/25/2008	8/25/2008
7675056	11/891574	US	024244/0036	4/16/2010	4/16/2010
7351995	11/894938	US	020995/0876	5/27/2008	5/27/2008
7045401	10/602436	US	024066/0073	3/11/2010	3/11/2010
7115945	11/327092	US	018350/0310	10/5/2006	10/5/2006
6620664	10/072248	US	035208/0437	3/19/2015	3/19/2015
6759695	10/661429	US	035229/0131	3/23/2015	3/23/2015
7129488	10/746952	US	018590/0213	12/6/2006	12/6/2006
7045832	10/755567	US	024066/0961	3/15/2010	3/15/2010
6967112	10/794158	US	035208/0580	3/19/2015	3/19/2015
6506637	09/834488	US	035208/0367	3/19/2015	3/19/2015
6627919	10/319312	US	035229/0093	3/23/2015	3/23/2015
7811913	11/312967	US	025363/0607	11/15/2010	11/15/2010
7413939	11/149891	US	021428/0898	8/25/2008	8/25/2008
7378309	11/376542	US	021050/0832	6/6/2008	6/6/2008

7297564	11/416985	US	020986/0352	5/22/2008	5/22/2008
7037856	11/149883	US	024091/0361	3/17/2010	3/17/2010
5726459	08/258518	US	036026/0319	7/8/2015	7/8/2015

In addition, Assignor agrees to and hereby does sell, assign, transfer and convey unto Assignee all rights (i) in and to causes of action and enforcement rights for the Patent Rights including all rights to pursue damages, injunctive relief and other remedies for past, present and future infringement of the Patent Rights, (ii) the right to apply (or continue prosecution) in any and all countries of the world for patents, design patents, utility models, certificates of invention or other governmental grants for the Patent Rights, including without limitation under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement or understanding, and (iii) the rights, if any, to revive prosecution of any abandoned Patent Rights.

Assignor also hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents or certificates of invention or equivalent which may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Nunc Pro Tunc Confirmatory Assignment will inure to the benefit of Assignee, its successors, assigns and other legal representatives, and will be binding upon Assignor, its successor, assigns and other legal representatives.

IN WITNESS WHEREOF this Nunc Pro Tunc Confirmatory Assignment is executed

at SLA on August 20, 2015.

ASSIGNOR

By: [Signature]

Name: D. Laurence Meixner

Title: President & CEO Sharp Laboratories of America

(Signature MUST be notarized)

State of Washington)
County of Clark)

Signed or attested before me on Aug 20, 2015 (date), by D. Laurence Meixner (name of person signing).

[Signature] (signature of Notary)
Notary Public, State of Washington

My appointment expires: Aug 2, 2016

