PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | | NEW ASSIGNMENT | | |
|---|------------------------------|------------------|------|----------------|
| NATURE OF CONVEYANCE: | | ASSIGNMENT | | |
| CONVEYING PARTY DATA | | | | |
| Name | | | lame | Execution Date |
| Sharp Laboratories of America, Inc. | | | | 04/26/2013 |
| RECEIVING PARTY DATA | | | | |
| Name: | SHARP KABUSHIKI KAISHA | | | |
| Street Address: | 22-22, Nagaike-cho, Abenu-ku | | | |
| City: | Osaka | | | |
| State/Country: | JAPAN | | | |
| Postal Code: | 545-8522 | | | |
| PROPERTY NUMBERS Total: 1 | | | | |
| Property Type | | Number | | |
| Application Number: 13470 | | 124 | | |
| Application Number: 13470124 CORRESPONDENCE DATA 7000000000000000000000000000000000000 | | | | |
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| ATTORNEY DOCKET NUMBER: | | SLA3196 | | |
| NAME OF SUBMITTER: | | David C. Ripma | | |
| Signature: | | /David C. Ripma/ | | |
| Date: | | 04/26/2013 | | |
| Total Attachments: 1 source=SLA3196 Corporate to Corporate Assignment#page1.tif PATENT | | | | |

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 an assignment document recorded in the assignment records of the United States Patent and Trademark Office, at Reel / Frame: 028241 / 0312, the assignee and record owner of an invention entitled:

"Devices for Sending and Receiving Feedback Information"

invented by Zhanping YIN et al. (hereinafter "said Invention"), including a US patent application filed by SLA on (filing date), Serial No. 13/470,124, pertaining thereto (hereinafter "the '124 application");

WHEREAS, Sharp Kabushiki Kaisha (hereinafter "Sharp"), a Japanese Corporation, having an address at 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka, 545-8522, Japan, is the parent company and owner of SLA; and

WHEREAS, SLA and Sharp wish to transfer ownership of said Invention, including the '124 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 guitclaim unto Sharp all of SLA's right, title and interest in and to said Invention, including the '124 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 assignee.

aboratories of America. Inc. David C. Ripma Registration Nø

Dated: April 26, 2013

Patent Counsel

Corp-to-Corp Assignment of Application - SLA3196

RECORDED: 04/26/2013

PATENT REEL: 030299 FRAME: 0082