

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Sharp Laboratories of America, Inc.	09/04/2009
RECEIVING PARTY DATA	
Name:	Sharp Kabushiki Kaisha
Street Address:	22-22, Nagaïke-cho, Abeno-ku, Osaka-shi
City:	Osaka
State/Country:	JAPAN
Postal Code:	545-8522
PROPERTY NUMBERS Total: 1	
Property Type	Number
PCT Number:	JP0855154
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	SLA2294PCT
NAME OF SUBMITTER:	David C. Ripma
Total Attachments: 2 source=Assignment_PCTJP2008055154#page1.tif source=Assignment_PCTJP2008055154#page2.tif	

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PATENT
REEL: 023198 FRAME: 0712

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 (hereinafter "USPTO"), at Reel / Frame: 019020 / 0923 (hereinafter "said inventor first assignment to SLA"), the record owner of an invention entitled:

SYSTEMS AND METHODS FOR IMPROVING REFERENCE SIGNALS FOR SPATIALLY MULTIPLEXED CELLULAR SYSTEMS

invented by John M. Kowalski (hereinafter "said first invention"), including a US patent application filed by SLA on March 14, 2007, serial no. 11/686,251, pertaining thereto (hereinafter "the first US application");

WHEREAS, SLA, is, by an assignment document recorded in the assignment records of the USPTO, at Reel / Frame: 020043 / 0283 (hereinafter "said inventor second assignment to SLA"), the record owner of an invention entitled:

SYSTEMS AND METHODS FOR GENERATING SEQUENCES THAT ARE NEAREST TO A SET OF SEQUENCES WITH MINIMUM AVERAGE CROSS-CORRELATION

invented by John M. Kowalski (hereinafter "said second invention"), including a US patent application filed by SLA on October 30, 2007, serial no. 11/928,092, pertaining thereto (hereinafter "the second US 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;

WHEREAS, Sharp filed, in the Japanese Patent Office, on March 13, 2008, a PCT application, in the name of Sharp, namely

Application No. PCT/JP2008/055154

(hereinafter "said PCT application") which pertains to said first invention and said second invention; said PCT application having a title corresponding to the title of the second US application and claiming priority to the first US application and the second US application; and

WHEREAS, Sharp is interested in recording its ownership of said PCT application in the assignment records of the USPTO, and wishes to make one or more national stage filings of said PCT application in the United States and other countries, and may wish to file additional patent applications in the United States and other countries claiming priority to said PCT application;

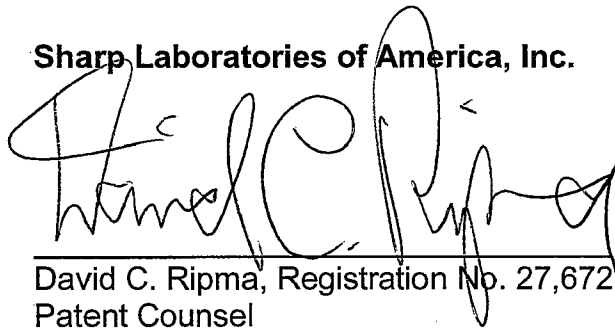
NOW THEREFORE, for good and valuable consideration acknowledged by SLA to have been received in full from Sharp:

1. SLA hereby sells, assigns, transfers and conveys unto Sharp all rights of ownership in and to said PCT application, including all national stage filings of said PCT application, and all applications for patents, certificates of invention or other government grants on said invention which result from or claim priority to said PCT application, and any patents, certificates of invention or other government grants issuing therefrom. This assignment is retroactive to the filing date of the first US application.
2. This Assignment does not transfer ownership of any other rights conveyed to SLA by said inventor first assignment to SLA and by said inventor second assignment to SLA. In particular, SLA retains all rights in and to the first US application and the second US application, and any continuations, divisionals, and continuations-in-part thereof which SLA may file in the USPTO, and any US patents issuing therefrom.
3. SLA hereby covenants and agrees to cooperate with Sharp to enjoy to the fullest extent the right, title and interest herein conveyed.

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 SLA.

Sharp Laboratories of America, Inc.



David C. Ripma, Registration No. 27,672
Patent Counsel

Dated: September 4, 2009