Docket No.: SLA0686 05-06-2002 FORM PTO-1595 (Modified) U.S. DEPARTMENT OF COMMERCE EET (Rev. 6-93) OMB No. 0651-0011 (exp.4/94) Patent and Trademark Office Copyright 1994-97 LegalStar P08/REV02 Tab settings 🔷 🔷 🛊 102078335 Tlease record the attached original documents or copy thereof. To the Honorable Commissioner of Pa Name of conveying party(ies): Name and address of receiving party(ies); John W. Hartzell Name: Sharp Laboratories of America, Inc. Internal Address: Additional names(s) of conveying party(ies) ☐ Yes ☒ No 3. Nature of conveyance: Merger Street Address: 5750 NW Pacific Rim Boulevard Security Agreement Change of Name Other City: Camas State: WA ZIP: 98607 Execution Date: April 22, 2002 Application number(s) or registration numbers(s): If this document is being filed together with a new application, the execution date of the application is: April 23, 2002 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? ☐ Yes 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: David C. Ripma, Patent Counsel 7. Total fee (37 CFR 3.41):....\$ 40.00 Internal Address: Registration No. 27,672 Enclosed - Any excess or insufficiency should be credited or debited to deposit account Sharp Laboratories of America, Inc. Authorized to be charged to deposit account Street Address: 5750 NW Pacific Rim Boulevan 8. Deposit account number: 05/03/2002 GTDN11 00000264 191457 10131006 01 FC:581 19-1457 40.00 CH ZID: 98607 State: WA City: Camas DO NOT USE THIS SPACE 9. Statement and signature. true and correct and any attached copy is a true copy To the best of my knowledge and belief, the foregoing inform of the original document. April 23, 2002 David C. Ripma, Reg. No. 27,672 Signature Date Name of Person Signing Total number of pages including cover sheet, attachments, and document:

PATENT REEL: 012847 FRAME: 0605

ASSIGNMENT

WHEREAS, the undersigned John W. Hartzell, a resident of Camas, WA, (hereinafter termed "inventor") has invented certain new and useful improvements in:

THIN-FILM CRYSTAL-STRUCTURE-PROCESSED MECHANICAL DEVICES AND METHODS AND SYSTEMS FOR MAKING

and has executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

X	On the 22 nd day of April, 2001;
	Or
	Said application having been previously filed and assigned Serial Number _/, and filing date

WHEREAS Sharp Laboratories of America, Inc., a corporation of the State of Washington, (hereinafter termed "Assignee"), having a place of business at 5750 NW Pacific Rim Boulevard, Camas, State of Washington, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any and all countries of the world for patents, certificates of inventions or other government grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on

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PATENT REEL: 012847 FRAME: 0606 said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

- 2. Said Inventor hereby covenants and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said inventor shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting application for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor, said Inventor's heirs, legal representatives and assigns.
- 4. Said Inventor hereby warrants and represents that said Inventor has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

(1) Hartzell, Sygnature) 4/22/02 (John W. Hartzell, Sygnature) (Date)

IN WITNESS WHEREOF, the said Inventor has executed said

Assignment on the date given below.

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RECORDED: 04/23/2002

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