Docket No.: SLA0331 01-11-2001 FORM PTO-1595 (Modified) U.S. DEPARTMENT OF COMMERCE (Rev. 6-93) Patent and Trademark Office OMB No. 0651-0011 (exp.4/94) 12.10.00 Copyright 1994-97 LegalStar P08/REV02 Tab settings → → 101583061 To the Honorable Commissioner of Patent. ..tached original documents or copy thereof. 2. Name and address of receiving party(ies): Name of conveying party(ies): Rajesh Reddy K. Kovvuri and Scott J. Daly Name: Sharp Laboratories of America, Inc. Internal Address: Additional names(s) of conveying party(ies) ☐ Yes 🛛 No 3. Nature of conveyance: Street Address: 5750 NW Pacific Rim Boulevard ☐ Merger Assignment ☐ Change of Name ☐ Security Agreement _____ State: WA ZIP: 98607 City: Camas ☐ Other Execution Date: Kovvuri (12/07/00) & Daly (12/11/00) Additional name(s) & address(es) attached?

Yes

No 4. 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: **December 12, 2000** A. Patent Application No.(s) B. Patent No.(s) 09735 475 Additional numbers attached? Yes X No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: Scott C. Krieger, Patent Counsel 7. Total fee (37 CFR 3.41):....\$ 40.00 Internal Address: Registration No. 42,768 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 Boulevard 8. Deposit account number: 50-0803 State: WA ZIP: 98607 City: Camas DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. December 12, 2000 Scott C. Krieger, Reg. No. 42,768 Date Name of Person Signing Signature Total number of pages including cover sheet, attachments, and document:

ASSIGNMENT

WHEREAS, the undersigned Rajesh Reddy K. Kovvuri a resident of India and Scott J. Daly, a resident of Kalama, WA, (hereinafter termed "inventor") have invented certain new and useful improvements in:

METHODS AND SYSTEMS FOR IMPROVING DISPLAY RESOLUTION IN ACHROMATIC IMAGES USING SUB-PIXEL SAMPLING AND VISUAL ERROR FILTERING

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

X	On the 7th day of December,2000 (Kovvuri) and on the 11th day of December, 2000.(Daly)
	Or
	Said application having been previously filed and assigned Serial Number _/, and filing date, 2000.

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 Inventors (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 Inventors to have been received in full from said Assignee:

1. Said Inventors do 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

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and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on 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 Inventors hereby covenant and agree 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 inventors 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 Inventors 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 Inventors' heirs, legal representatives and assigns.
- 4. Said Inventors hereby warrant and represent that said Inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

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IN WITNESS W	/HEREOF, the said Inventors have executed this
Assignment on the date giver	ı below.

(1) (Inventor's Signature)	12-7 - 2000 (Date	
(2) Doly (Inventor's Signature)	<u> </u>	_

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RECORDED: 12/12/2000

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