02-02-2001 FORM PTO-1595 U.S. DEPARTMENT OF RECORD (Rev. 6-93) COMMERCE Patent and Trademark Office OMB No. 0651-011 (exp. 4/94) 015113/0001-B-69413 101603173 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name and address of receiving party(ies) 1. Name of conveying party(ies): Name: ASTI, Inc. Sreenivas Rao and Noor Ashedah Binti Jusoh Internal Address:____ Additional name(s) of conveying party(ies) attached? ☐ Yes ⊠ No 3. Nature of conveyance: ☐ Merger Street Address: at Block 25, Kallang Ave,#03-01/04, Singapore 339416 Security Agreement Additional name(s) & address(es) attached? ☐ Other ☐ Yes ⊠ No Execution Date: 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is B. Patent No.(s) A. Patent Application No.(s) JAN 2 6 2001 , filed Additional numbers attached? Total number of applications and patents involved: Name and address of party to whom correspondence concerning document should be mailed: Total fee (37 CFR 3.41) \$40.00 Name: Christopher J. Rourk Internal Address: Akin, Gump, Strauss, Hauer & Feld, L.L.P. Authorized to be charged to deposit account Deposit account number: Street Address: P.O. Box 688 01-0657 City: Dallas State: TX ZIP: 75313-0688 (Attach duplicate copy of this page if paying by deposit account) DO NOT/USE THIS SPACE

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.

Christopher J. Rourk

Name of Person Signing

Reg. No. 39,348

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:

Assistant Commissioner for Patents, Box Assignment 00000028 CHRIS J.ROURK Washington, D.C. 20231

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REEL: 011475 FRAME: 0245

ASSIGNMENT

WHEREAS, WE, Sreenivas Rao and Noor Ashedah Binti Jusoh, citizens of India and
Malysia, respectively, and residing at the addresses as stated below, respectively, have jointly mad
an invention entitled "CMOS IMAGING APPARATUS" for which we have executed as
application for United States Letters Patent on ///28/2000 and
filed on /0/20/2000.

WHEREAS, we represent and warrant that we are the joint owners of said invention and application for Letters Patent;

WHEREAS, ASTI, Inc. (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of the State of Delaware, U.S.A. having a place of business at Block 25, Kallang Ave,#03-01/04, Singapore 339416, is desirous of acquiring the same;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by us, we have assigned, sold, transferred and set over and by these presents do assign, sell, transfer and set over unto said ASSIGNEE the entire right, title and interest in and to (a) said invention and worldwide rights therein; (b) said application, including all divisions, continuations and substitutions thereof; and (c) all United States and foreign patents which shall issue on said invention, including all reissues, renewals and extensions thereof, for the United States, its territories and possessions and all foreign countries, including the right to file corresponding applications for Letters Patent on said invention in any and all foreign countries, and to claim priority under any and all treaties and conventions to which the United States of America is signatory including the Paris Convention for the Protection of Industrial Property for such corresponding applications, or any division, continuation or substitution thereof, the same to be held and enjoyed by said ASSIGNEE, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by us, had this assignment not been made.

We jointly and severally covenant and agree that we will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE to (a) obtain Letters Patent, both domestic and foreign, on said invention; (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns, to said invention, application and Letters Patent, including making such title of lawful public record; and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this assignment.

We jointly and severally represent and covenant that no assignment, mortgage, sale, license, pledge, encumbrance or alienation of said invention or patent application has been or will be made or entered into which would conflict with this assignment and sale.

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We hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent based on said application and each division, continuation, substitution, reissue, renewal and extension thereof to said ASSIGNEE, its successors and assigns.

Each of the undersigned further declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

IN TESTIMONY WHEREOF, we have duly executed this assignment on the date as indicated next to our names.

Date: 2 8 NOV 2000	J. D. Francias Ras
	First Joint Inventor: Sreenivas Rao
	Residence Address:
	108 Jalan Rajah, #08-116
	Singapore 320108
	Citizen of India
State o f)

SINGAPORE

Before me, the undersigned Notary Public, on this day personally appeared Sreenivas Rao, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this ______ day of ____ 28 NOV 2000 _____, 2000 notary attestation

Notary Public

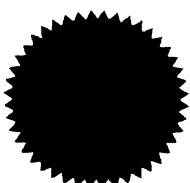
My Commission Expires: 31st March 2001

Wilson Yip
N2000/0291
1 Apr 2000 - 31 Mai 2001

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County of

Date: 28 NO \	/ 20 00		Value -			
	Sec	ond Joint Inventor	: Noor Ashedah Binti Jusoh			
		Res	sidence Address:			
		Blk	Blk 506A, #02-452			
		Ser	angoon North Ave	÷ 4		
		Sin	gapore 551506			
		Cit	izen of Malysia			
State of County of	SINGAPORE)) ss.				
Given und	er my hand and s	eal of office th	isday of estation	f 28 NOV 2000 , 2000.		
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		Notary Pub	· · · · · · · · · · · · · · · · · · ·			
		•	ission Expires:	31st March 2001		
			-	Wilson Yip N2000/0291 1 Apr 2000 - 31 Mar 2001		



RECORDED: 01/26/2001