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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1.	Name of conveying party(ies):	2. Name and address of receiving party(ies):		
	Hua-Yu Liu 07/27/0/	Name: Numerical Technologies Inc.		
Additional name(s) of conveying party(ies) attached?		Street Address: 70 W. Plumeria Drive		
3.	☐ Yes ☐ No Nature of conveyance:	City/State/Zip: San Jose, CA 95134		
٥.	Assignment	Additional name(s) & address(es) attached?		
Exec	cution Date: <u>07/26/2001</u>			
4. Application number(s) or patent number(s): 09/9/75				
If this document is being filed together with a new application, the execution date of the application is: 07/27/2001				
	A. Patent Application No.(s):	B. Patent No.(s):		
Additional numbers attached? Yes No				
	Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: [1]		
	Name:			
	Jeanette S. Harms Bever, Hoffman & Harms, LLP 2099 Gateway Place, Suite 320 San Jose, CA 95110-1017	7. Total fee (37 CFR 3.41)		
		8. Deposit account number: 50-0574 (Attorney Docket No.: NTI-017)		
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.			
	Jeanette S. Harms	07/27/2001		
	Name of Person Signing	Signature Date		
	Total number of pages including cover sheet, attachments, and document: [2]			

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ASSIGNMENT OF APPLICATION		Docket Number NTI-017	
Whereas, the undersigned:			
1. LIU, Hua-Yu 3434 Waverly Str Palo Alto CA 94306			
hereinafter termed "Inventors", have invented certain new and useful impre-	ovements in		
Method and Apparatus for Allowing Phase Conflicts in Phase Shifting Mask and Chromeless Phase Edges			
☐ for which an application for United States Patent was filed on, Application No ☐ for which an application for a United States Patent was executed on <u>EVEN DATE HEREWITH</u> , and			
WHEREAS, <u>Numerical Technologies</u> , <u>Inc.</u> , a corporation of the State of <u>D</u> <u>California</u> , (hereinafter termed "Assignee"), is desirous of acquiring the endisclosed therein, and in and to all embodiments of the invention, heretofo (all collectively hereinafter termed "said invention"), and in and to any and (hereinafter termed "patents") thereon granted in the United States and for	tire right, title and interest in re conceived, made or discoved all patents, inventor's certifications.	and to said application and the invention vered jointly or severally by said Inventors	
NOW, THEREFORE, in consideration of the sum of One Dolla said Inventors to have been received in full from said Assignee:	r (\$1.00) and other good and	•	
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 for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.			
2. Said Inventors hereby jointly and severally covenant enjoy to the fullest extent the right, title and interest herein conveyed in the shall include prompt production of pertinent facts and documents, giving cother papers, and other assistance all to the extent deemed necessary or deand interest herein conveyed; (b) for prosecuting any of said applications; additional applications covering said invention; (d) for filing and prosecution other priority proceedings involving said invention; and (f) for legal procepatents granted thereon, including without limitation reissues and reexaminates, public use proceedings, infringement actions and court actions; providing such cooperation shall be paid for by said Assignee.	e United States and foreign c of testimony, execution of pe sirable by said Assignee (a) f (c) for filing and prosecuting ing applications for reissuance edings involving said inventi- nations, opposition proceeding	ountries. Such cooperation by said Inventors titions, oaths, specifications, declarations or for perfecting in said Assignee the right, title substitute, divisional, continuing or the of any said patents; (e) for interference or on and any applications therefor and any ags, cancellation proceedings, priority	
3. The terms and covenants of this assignment shall inurrepresentatives, and shall be binding upon said Inventors, their respective leads to the contract of the same of the s			
4. Said Inventors hereby jointly and severally warrant a assignment, contract, or understanding in conflict herewith.	nd represent that they have n	ot entered and will not enter into any	
IN WITNESS WHEREOF, said Inventors have executed and de-	elivered this instrument to sa	d Assignee as of the dates written below:	
Date: 7/26/0/	State of California		
Han y y	County of Santa Clara		
ERIK L. OLIVER Commission # 1275525 Notary Public - California Santa Clara County My Comm. Expires Aug 31, 2004	person(a) whose name is su acknowledged to me that he authorized capacity(ies), and		
Place Notary Seal Above	(01/1)	/	

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