FORM PTO-1595

RECOR

10-15-2004



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

	Patent and Trademark Office	
Docket No.: 550/1-384		
	Name and address of receiving party(ies):	
1. Name of Conveying Party(ies):		
Duan-Fu Stephen HSU, Armin LIEBCHEN		
(1) 10 Ty My	Address: De Run 6501, 5504 DR	
Additional name(s) of conveying party(ies) attached? Yes No	Veldhoven, THE NETHERLANDS	
3. Nature of Conveyance:		
Security Agreement Change of Name		
Other		
Execution Date: September 24, 2004, September 24, 2004	A 11/2 1 () 0 a d direct (a) afficial and 10 To Mar. M. No.	
	Additional name(s) & address(es) attached? Yes No	
4. Application number(s) or patent number(s):		
If the document is being filed together with a new application, the e		
A. Patent Application No(s).	B. Patent No(s).	
US 10/878,489, filed on June 29, 2004.		
	l	
Additional numbers attached?		
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:	
concerning document should be mailed:		
Name: MCDERMOTT WILL & EMERY LLP	7. Total fee (37 CFR 3.41) \$40.00	
Internal Address:	☐ Enclosed	
	Authorized to be charged to deposit account	
Street Address: 600 13th Street, N.W.	8. Deposit account number:	
	500417	
City: Washington State: D. C. Zip: 20005-3096		
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.		
	-/m 1	
David M. Tennant, 48,362	//- /www. October 8, 2004	
Name and Registration No. of Person Signing	Signature Date	
Te	otal number of pages including cover sheet: 3	
OMB No. 0651-0027 (exp. 6/30/2005)		

0/14/2004 MGETACHE 00000070 500417 10878489 1 FCz8021 40.00 BA

> PATENT REEL: 015879 FRAME: 0500

Docket No.: 55071-382

ASSIGNMENT

WHEREAS WE, Duan-Fu Stephen HSU, Armin LIEBCHEN of 40658 Ambar Place, Freemont, CA 94539, and 3297 Round Hill Drive, Hayward, CA 94542, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled A METHOD, PROGRAM PRODUCT AND APPARATUS OF SIMULTANEOUS OPTIMIZATION FOR NA-SIGMA EXPOSURE SETTINGS AND SCATTERING BARS OPC USING A DEVICE LAYOUT, filed on June 29, 2004, and identified by United States Serial No. 10/878,489 and for which a United States Provisional Application was filed on June 30, 2003, identified by United States Serial No 60/483,102;

AND WHEREAS, ASML MASKTOOLS B.V., a corporation organized and existing under the laws of The Netherlands, having an address of De Run 6501, 5504 DR Veldhoven, The Netherlands is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, I do hereby sell, assign, transfer and set over unto ASML MASKTOOLS B.V., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-inpart, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND WE request the Commissioner for Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said ASML MASKTOOLS B.V., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

9/24-2004 Date 9/24-2004

Date

Stephen HSU Duan-Fu

Armin LIEBCHEN

PATENT REEL: 015879 FRAME: 0501

STATE OF <u>CALIFORNIA</u>	_)
COUNTY OF SANTA CLARA) SS:
On this $-24\frac{2}{3}$ day o	f September 24, 2004, before me personally
appeared Duan-Fu Stephen HSU, to	o me known to be the person named in and who executed the
	ged to me that he/she executed the same for the uses and
purposes therein set forth.	
	Ellis E. Witchelf
ELLIS E. MITCHELL	Notary Public
Commission # 1362317 Notary Public - California	1/25/200
Santa Clara County	My commission expires $\frac{6}{35}$ $\frac{35}{2006}$
My Comm. Expires Jun 25, 2006	
4.	
COUNTY OF SANTA CLIMA	_)
) SS:
COUNTY OF SANTA CLIMA	_)
On this $24\frac{4}{3}$ day of	of September 34, 2004, before me personally
appeared Armin LIEBCHEN, to m	he known to be the person named in and who executed the
* *	ged to me that he/she executed the same for the uses and
purposes therein set forth.	7.1
	6(1): ()().(.)()
·	Ches 9. Witchel
SEAL	Notary Public
· ·	My commission expires $\frac{6/25/200.6}{}$
ELLIS E. MITCHELL Commission # 1362317	My commission expires
Notary Public - California	, ,
Santa Clara County	
My Comm. Expires Jun 25, 2008	

RECORDED: 10/08/2004

PATENT REEL: 015879 FRAME: 0502