

Form PTO-1595 (Rev. 06/04)
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01-06-2005

U.S. DEPARTMENT OF COMMERCE
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RE		102905640	
To the Director of the U.S. Patent and Trademark Office		Documents or the new address(es) below.	
1. Name of conveying party(ies)/Execution Date(s): Nabila BABA-ALI, and Arno BLEEKER Execution Date(s) <u>See 1 in Addendum</u> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No		2. Name and address of receiving party(ies) Name: <u>ASML Holding N.V.</u> Internal Address: _____ Street Address: <u>De Run 6501, NL 5504 DR</u> City: <u>Veldhoven</u> State: _____ Country: <u>The Netherlands</u> Zip: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) To be assigned B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Sterne, Kessler, Goldstein & Fox P.L.L.C.</u> Internal Address: <u>c/o Donald J. Featherstone</u> Street Address: <u>1100 New York Avenue, N.W.</u> City: <u>Washington</u> State: <u>D.C.</u> Zip: <u>20005-3934</u> Phone Number: _____ Fax Number: _____ Email Address: _____		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 <input type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
9. Signature: <u>Donald J. Featherstone</u> Signature Donald J. Featherstone Name of Person Signing		8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date <u>08/2005</u> b. Deposit Account Number <u>19-0036</u> Authorized User Name _____	
Total number of pages including cover sheet, attachments, and documents: <u>5</u>		Date <u>12/22/04</u>	

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

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PATENT
REEL: 016432 FRAME: 0165

Appl. No. To be assigned
Docket No. 1857.3380000

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: Nabila BABA-ALI and Arno BLEEKER, hereby sell and assign to ASML Holding N.V., a corporation, whose mailing address is De Run 6501, NL - 5504 DR Veldhoven, The Netherlands (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as System, Apparatus and Method for Maskless Lithography that Emulates Binary, Attenuating Phase-Shift and Alternating Phase-Shift Masks for which application(s) for patent in the United States of America was filed on 12/16/04 (also known as United States Application No. To be assigned,), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

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12/21/04

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant Robert Greene Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Esmond, Esq., Registration No. 32,893; Tracy-Gene G. Durkin, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Covert, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugaisky, Esq., Registration No. 35,086; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millonig, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or

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Docket No. 1857.3380000

desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: Dec. 16, 2004 Signature of Inventor: Nabila Baba-Ali
Nabila BABA-ALI

Date: _____ Signature of Inventor: _____
Arno BLEEKER

342818v1

Appl. No. To be assigned
Docket No. 1857.3380000

ASSIGNMENT

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(a) in the invention(s) known as System, Apparatus and Method for Maskless Lithography that Emulates Binary, Attenuating Phase-Shift and Alternating Phase-Shift Masks for which application(s) for patent in the United States of America was filed on 12/21/04 (also known as United States Application No. To be assigned,), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

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12/21/04

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

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IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: _____

Signature of Inventor: _____
Nabila BABA-ALI

Date: 1/1/2005

Signature of Inventor: _____
Arno BLEEKER

342818v1

Addendum

6, 2004 and December 19, 2004, respectively