

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Min-Chun TSAI</td><td>02/03/2001</td></tr><tr><td>Been-Der CHEN</td><td>02/03/2011</td></tr><tr><td>Yen-Wen LU</td><td>02/03/2011</td></tr></tbody></table>	Name	Execution Date	Min-Chun TSAI	02/03/2001	Been-Der CHEN	02/03/2011	Yen-Wen LU	02/03/2011	
Name	Execution Date								
Min-Chun TSAI	02/03/2001								
Been-Der CHEN	02/03/2011								
Yen-Wen LU	02/03/2011								
RECEIVING PARTY DATA									
Name:	ASML Netherlands B.V.								
Street Address:	De Run 6501								
City:	Veldhoven								
State/Country:	NETHERLANDS								
Postal Code:	NL-5504 DR								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13007358</td></tr></tbody></table>	Property Type	Number	Application Number:	13007358					
Property Type	Number								
Application Number:	13007358								
CORRESPONDENCE DATA									
Fax Number:	(703)770-7901								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Email:	diane.powers@pillsburylaw.com								
Correspondent Name:	PILLSBURY WINTHROP SHAW PITTMAN, LLP								
Address Line 1:	P.O. BOX 10500								
Address Line 4:	MCLEAN, VIRGINIA 22102								
ATTORNEY DOCKET NUMBER:	081468-0391212-17206								
NAME OF SUBMITTER:	Mark J. Danielson								
Total Attachments: 2 source=Assignment0391212#page1.tif source=Assignment0391212#page2.tif									

CH \$40.00 13007358

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PATENT
REEL: 025966 FRAME: 0774

ASSIGNMENT

In consideration of the sum of Ten Dollars (\$10.00) and/or other good and valuable consideration paid to the ASSIGNOR(s), namely:

NAME OF	(1)	Min-Chun TSAI	(2)	Been-Der CHEN
ASSIGNOR(S)	(3)	Yen-Wen LU		

the receipt and sufficiency of which are acknowledged by the ASSIGNOR(s), the ASSIGNOR(s) hereby sell(s), assign(s) and transfer(s) unto:

INSERT	ASML Netherlands B.V.
NAME OF	De Run 6501
ASSIGNEE and	5504 DR Veldhoven
ADDRESS	The Netherlands

its or their successors, assigns and legal representatives (together and individually hereinafter "ASSIGNEE") and to the extent already assigned or transferred to ASSIGNEE by operation of law or by a general obligation between the ASSIGNOR(s) and ASSIGNEE, the ASSIGNOR(s) hereby confirm(s) and formalize(s) the assignment and transfer to ASSIGNEE of, the entire and exclusive right, title and interest for all countries, regions, territories, and other jurisdictions throughout the world, in, to and under the invention(s), improvements thereof, and all patent applications, provisional and non-provisional, (including without limitation all patent applications claiming priority and/or benefit, including without limitation all divisional, continuation, continuation-in-part, substitute, renewal and reissue applications), patents (including without limitation extensions, reissues and renewals thereof), and other intellectual property protection (including without limitation all utility models, designs and inventor certificates, and applications, extensions, renewals and reissues for the same) therefor, together with, though not in any way of limitation, all rights of priority under the International Convention for the Protection of Industrial Property and all other laws and international agreements, the right to apply for patents in ASSIGNEE's name(s), and all rights of recovery for past, present or future infringement thereof, known as

TITLE OF THE INVENTION

Method and Apparatus for Enhancing Signal Strength for Improved Generation and Placement of Model-Based Sub-Resolution Assist Features (MB-SRAF)

for which a patent application was executed and/or filed for:

U.S.A.	January 14, 2011	US	13/007,358
Country	Date	Country abbreviation	Application number

AND the ASSIGNOR(s) hereby authorize(s) and request(s) any government agency, office or official whose duty includes issuing patents or other evidence or forms of intellectual property protection on or for the aforesaid invention(s) and application(s) (including, without limitation, all applications filed in or for China, Europe, Japan, Korea, the Netherlands, United Kingdom, Germany, France, Italy, Taiwan, Singapore and the United States), to issue the same to ASSIGNEE, as the assignee(s) of all rights, title, interests thereto and/or as the applicant(s) therefor;

AND the ASSIGNOR(s) agree(s) that the attorney of record in the aforesaid application(s) shall hereinafter act on behalf of ASSIGNEE;

AND the ASSIGNOR(s) acknowledge(s) that the aforesaid invention(s) was/were made in the framework of a specific relationship to ASSIGNEE and that in this relationship the ASSIGNOR(s) is/are bound to use specific knowledge to create inventions similar to the aforesaid invention(s);

AND the ASSIGNOR(s) acknowledge(s) that the ASSIGNOR(s)'s salary or other remuneration includes fair and reasonable compensation for the assignment hereunder of the subject matter herein assigned;

AND the ASSIGNOR(s) agree(s), without further remuneration, to communicate to ASSIGNEE any facts known to the ASSIGNOR(s) respecting the aforesaid invention(s), and all related patent applications, patents, and other intellectual property protection mentioned above, and to testify in any legal proceeding, sign any lawful papers, execute any applications, make any rightful oaths or declarations, and generally provide all assistance, cooperation and information reasonably necessary for ASSIGNEE to perfect title in, prepare, complete, prosecute, obtain, maintain, preserve, enforce and/or defend the aforesaid invention(s) and all related patent applications, patents and other intellectual property protection mentioned above, and grant(s) ASSIGNEE a perpetual and irrevocable power of attorney to execute and sign in the name(s) and on behalf of the ASSIGNOR(s) any documents of any nature in pursuit of the aforesaid;

AND the ASSIGNOR(s) agree(s) not to contest or aid in contesting the validity, enforceability or ownership of the aforesaid invention(s) and all related patent applications, patents, and other intellectual property protection mentioned above;

AND the ASSIGNOR(s) represent(s) and warrant(s) to have the full right to convey the subject matter herein assigned, to have obtained the consent, if applicable, of all joint owners and all inventors to the subject matter assigned herein, to have not made and will not make any agreement or license in conflict herewith, and to have not encumbered and will not encumber by any grant, license or right the subject matter herein assigned;

AND the ASSIGNOR(s) has/have not disclosed and will not disclose the aforesaid invention(s) to any third party, except with the prior written consent of ASSIGNEE, prior to the date of earliest publication of the aforesaid application(s);

AND the ASSIGNOR(s) hereby authorize(s) any attorneys or other representatives of ASSIGNEE to insert hereon any further identification necessary or desirable for recordation of this document, including without limitation any applicable patent or patent application number;

AND, to the extent there is a conflict between the agreement herein and any previous agreement between ASSIGNEE and any or all of the ASSIGNOR(s), the ASSIGNOR(s) agree(s) that the agreement herein controls and supersedes any such conflicting previous agreement;


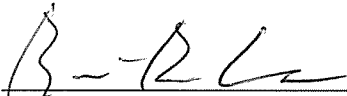
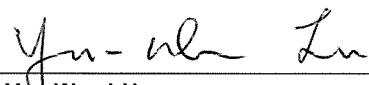
AND, where permitted by law, the ASSIGNOR(s) agree(s) that the agreement herein supersedes, modifies and/or supplements the law to the extent the agreement herein provides ASSIGNEE greater rights and protections than available under the law;

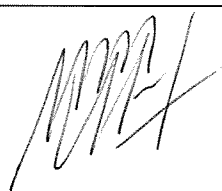
AND the ASSIGNOR(s) and ASSIGNEE irrevocably waive their rights to rescind the agreement herein, including, without limitation, on the basis of article 6: 285, 265, or 270 of the Dutch Civil Code;

AND the ASSIGNOR(s) agree(s) that the agreement herein shall be exclusively construed under and governed by United States federal law and the laws of Delaware with the exclusion of conflicts of law rules;

AND the ASSIGNOR(s) agree(s) that any dispute arising from or in relation to the agreement herein shall be submitted to the exclusive jurisdiction and venue of a court in the state of Connecticut or the state of Arizona in the United States of America, unless ASSIGNEE in its sole discretion prefer(s) to submit such dispute to an arbitration, whereby the arbitral tribunal shall be composed of one arbitrator, the place of arbitration shall be state of Connecticut or the state of Arizona, and the arbitral procedure shall be conducted in the English language;

AND the ASSIGNOR(s) and ASSIGNEE agree that if any provision of the agreement herein is deemed to be unenforceable, void, illegal or invalid, it shall be modified so as to make it valid and enforceable, and as so modified the agreement herein shall remain in full force and effect.

ASSIGNOR(S)	DATE SIGNED
1): <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  Name: Min-Chun TSAI </div> <div style="text-align: center;"> <u>02/03/2011</u> Date </div> </div>	
2): <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  Name: Been-Der CHEN </div> <div style="text-align: center;"> <u>02/03/2011</u> Date </div> </div>	
3): <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  Name: Yen-Wen LU </div> <div style="text-align: center;"> <u>2/3/2011</u> Date </div> </div>	

ASSIGNEE	DATE SIGNED
<div style="text-align: center; margin-bottom: 10px;">  </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Company: ASML Netherlands B.V. Signor: Antonius J.M. van Hoef Name: Vice President and Chief IP Counsel </div> <div style="text-align: center;"> <u>23 FEB 11</u> Date </div> </div>	