Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
CHRISTOPHER D. BENCHER	10/16/2007
KEIJI HORIOKA	10/19/2007

## **RECEIVING PARTY DATA**

Name:	APPLIED MATERIALS, INC.
Street Address:	P.O. BOX 450A
Internal Address:	LEGAL AFFAIRS DEPT.
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95052

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11875205

#### **CORRESPONDENCE DATA**

Fax Number: (408)986-3090

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 408-563-2726

Email: robert\_mulcahy@contractor.amat.com

Correspondent Name: Robert W. Mulcahy
Address Line 1: P.O. BOX 450A

Address Line 2: LEGAL AFFAIRS DEPT.

Address Line 4: SANTA CLARA, CALIFORNIA 95052

ATTORNEY DOCKET NUMBER:	AM12032/ETCH/MDD
NAME OF SUBMITTER:	ROBERT W MULCAHY

Total Attachments: 4

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PATENT REEL: 019987 FRAME: 0429

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> PATENT REEL: 019987 FRAME: 0430

## **ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses of Inventors:

1)	Christopher D. Bencher 1251 Hazlett Court	2)	Keiji Horioka Suido 1-2-17-705, Bunkyo-ku
	San Jose, CA 95131		Tokyo 112-0005 Japan

(hereinafter referred to as Assignors), have invented a certain invention entitled:

# FREQUENCY TRIPLING USING SPACER MASK HAVING INTERPOSED REGIONS

for which application for Letters Patent in the United States was filed on

under Serial No.

, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as the Application), and the invention disclosed therein (hereinafter referred to as the Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as the Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries 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 any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.
- 4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	10/14/47, 2007	Christopher D. Bencher	
		Christopher D. Bencher	
2)	, 2007		
		Keiji Horjoka	

#### ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Christopher D. Bencher	2)	Keiji Horioka
	1251 Hazlett Court		Suido 1-2-17-705, Bunkyo-ku
	San Jose, CA 95131		Tokyo 112-0005 Japan

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for which application for Letters Patent in the United States was filed on

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- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	, 2007	
		Christopher D. Bencher
2)	Oct-19 (2001), 2007	Idigi Howler
•	<del></del>	Keiii Horioka