

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>OMKARAM NALAMASU</td> <td>10/21/2008</td> </tr> <tr> <td>STEVEN VERHAVERBEKE</td> <td>10/21/2008</td> </tr> <tr> <td>MAJEED FOAD</td> <td>10/21/2008</td> </tr> <tr> <td>MAHALINGAM VENKATESAN</td> <td>10/21/2008</td> </tr> <tr> <td>NETY M. KRISHNA</td> <td>10/21/2008</td> </tr> </tbody> </table>		Name	Execution Date	OMKARAM NALAMASU	10/21/2008	STEVEN VERHAVERBEKE	10/21/2008	MAJEED FOAD	10/21/2008	MAHALINGAM VENKATESAN	10/21/2008	NETY M. KRISHNA	10/21/2008
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MAHALINGAM VENKATESAN	10/21/2008												
NETY M. KRISHNA	10/21/2008												
<b>RECEIVING PARTY DATA</b>													
<b>Name:</b>	APPLIED MATERIALS, INC.												
<b>Street Address:</b>	P.O. BOX 450A												
<b>Internal Address:</b>	LEGAL AFFAIRS DEPT.												
<b>City:</b>	SANTA CLARA												
<b>State/Country:</b>	CALIFORNIA												
<b>Postal Code:</b>	95052												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12255865</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12255865								
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Application Number:	12255865												
<b>CORRESPONDENCE DATA</b>													
<b>Fax Number:</b>	(408)986-3090												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
<b>Phone:</b>	408-563-2726												
<b>Email:</b>	robert_mulcahy@contractor.amat.com												
<b>Correspondent Name:</b>	Robert W. Mulcahy												
<b>Address Line 1:</b>	P.O. BOX 450A												
<b>Address Line 2:</b>	LEGAL AFFAIRS DEPT.												
<b>Address Line 4:</b>	SANTA CLARA, CALIFORNIA 95052												
<b>ATTORNEY DOCKET NUMBER:</b>	AM13620/NBNP/KCHANG												

CH \$40.00 12255865

NAME OF SUBMITTER:

ROBERT W MULCAHY

**Total Attachments: 12**

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**ASSIGNMENT**

For valuable consideration, we, **Omkaram Nalamasu** of San Jose, California and a citizen of United States of America; **Steven Verhaverbeke** of San Francisco, California and a citizen of Belgium; **Majeed Foad** of Sunnyvale, California and a citizen of United Kingdom; **Mahalingam Venkatesan** of San Jose, California and a citizen of United States of America; and **Nety M. Krishna** of Sunnyvale, California and a citizen of India (hereinafter referred to as "Assignors") hereby assign to **APPLIED MATERIALS, INC.**, a corporation organized and existing under and by the virtue of the laws of Delaware and having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054, and its successors and assigns (hereinafter collectively referred to as "Assignee"), the entire right, title and interest throughout the world in the invention and improvements which are the subject of an application for United States Patent filed on \_\_\_\_\_, U.S. Serial No. \_\_\_\_\_ entitled "**PATTERNING OF MAGNETIC THIN FILM USING ENERGIZED IONS AND THERMAL EXCITATION**", and related applications and patents, this assignment including said application, any and all United States and foreign patents granted for any of said inventions or improvements, including all divisions, continuations, reissues, continuations-in-part and extensions thereof, and the right to claim priority based on the filing date of said application and based on the filing date of any provisional application of which said application claims the benefit under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents and like rights of exclusion and for inventor's certificates for said inventions and improvements; and we agree for ourselves and our heirs, legal representatives and assigns, without further compensation, upon request to perform such lawful acts, to promptly provide Assignee with all pertinent facts and documents relating to said invention or application as may be known and accessible to us, to testify in any interference or litigation related to said invention or application and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

The Assignors hereby covenant that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this Agreement.

WITNESS my hand at \_\_\_\_\_,  
this 21<sup>st</sup> day of October, \_\_\_\_\_, 2008.

Omkaram Nalamasu  
Omkaram Nalamasu

STATE OF \_\_\_\_\_ )  
  ) ss  
COUNTY OF \_\_\_\_\_ )

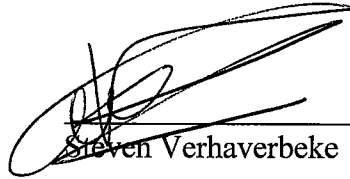
On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared  
Omkaram Nalamasu

personally known to me - OR -  proved to me on the basis of satisfactory evidence  
to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged  
to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by  
his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the  
person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public in and for said County and State

WITNESS my hand at \_\_\_\_\_,  
this 21st day of October, 2008.

  
\_\_\_\_\_  
Steven Verhaverbeke

STATE OF \_\_\_\_\_ )  
  ) ss  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared  
Steven Verhaverbeke

personally known to me - **OR** -  proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public in and for said County and State

WITNESS my hand at \_\_\_\_\_,  
this \_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Majeed Foad

STATE OF \_\_\_\_\_ )  
  ) ss  
COUNTY OF \_\_\_\_\_ )


On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared  
Majeed Foad

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WITNESS my hand and official seal.

\_\_\_\_\_  
Notary Public in and for said County and State

WITNESS my hand at \_\_\_\_\_,  
 this 21<sup>st</sup> day of October, 2008.

  
 \_\_\_\_\_  
 Mahalingam Venkatesan

STATE OF \_\_\_\_\_ )  
 ) ss  
 COUNTY OF \_\_\_\_\_ )


On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared  
 Mahalingam Venkatesan

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\_\_\_\_\_  
 Notary Public in and for said County and State

WITNESS my hand at \_\_\_\_\_,  
this 21<sup>st</sup> day of October, 2008.

  
\_\_\_\_\_  
Nety M. Krishna

STATE OF \_\_\_\_\_ )  
  ) ss  
COUNTY OF \_\_\_\_\_ )

On \_\_\_\_\_ before me, \_\_\_\_\_, personally appeared  
Nety M. Krishna

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WITNESS my hand and official seal.

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Notary Public in and for said County and State

WITNESS my hand at \_\_\_\_\_,  
 this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
 Steven Verhaverbeke

STATE OF \_\_\_\_\_ )  
 ) ss  
 COUNTY OF \_\_\_\_\_ )

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 Steven Verhaverbeke

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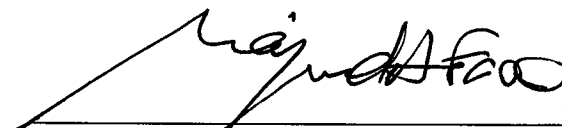
WITNESS my hand and official seal.

\_\_\_\_\_  
 Notary Public in and for said County and State

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this 21 day of October

2008.



Majeed Foad

STATE OF \_\_\_\_\_ )  
 ) ss  
COUNTY OF \_\_\_\_\_ )

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Majeed Foad

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  ) ss  
COUNTY OF \_\_\_\_\_ )

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