

01-09-2007



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U.S. Department of Commerce
Patent and Trademark Office
Customer No. 59,982
Attorney Docket No. 08350.6663-00000

Mail Stop Assignment Recordation Services

To the Director of the U.S. Patent and Trademark Office
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): (1) Bao Feng (2) Andrew McGilvray (3) Bo Shi		2. Name and address of receiving party(ies): Name: Caterpillar Inc.	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Internal Address: 100 N.E. Adams Street	
3. Nature of conveyance:		Street Address: Peoria	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City: Peoria	
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State: IL	Zip Code: 61629-6490
<input type="checkbox"/> Joint Research Agreement	<input type="checkbox"/> Government Interest Assignment	Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Executive Order 9494, Confirmatory License	<input type="checkbox"/> Other:		
Execution Date: (1) Bao Feng - December 19, 2006 (2) Andrew McGilvray - December 18, 2006 (3) Bo Shi - December 20, 2006			

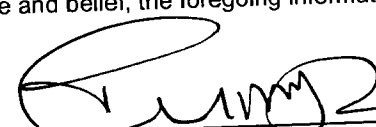
112935 U.S. PTO
11/647137
122906

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: (1) December 19, 2006, (2) December 18, 2006, and (3) December 20, 2006	
A. Patent Application Number(s): 01/03/2007 ENGUYEN2 00000080 11677137 04 FC:8021	B. Patent Number(s):
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One (1).
Name: Roland G. McAndrews	7. Total fee (37 CFR 1.21(h) and 3.41): \$40 <input checked="" type="checkbox"/> Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916) <input type="checkbox"/> Authorized to be charged to deposit account
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.	
Street Address: 901 New York Avenue, N.W.	8. Deposit Account No.: 06-0916
City: Washington, D.C.	
State: Zip: 20001-4413	

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.

Signed:  Roland G. McAndrews
Reg. No. 41,450

Date: December 29, 2006

Total number of pages including cover sheet, attachments and documents: 10

12.29.06

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

THIN FILM WITH ORIENTED CRACKS ON A FLEXIBLE SUBSTRATE

for which I/We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on ____, 20 ____ (Serial No. ____); and

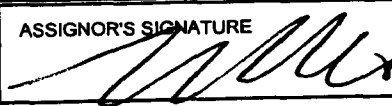
WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intellectual Property Department, 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional application Serial No. ____, filed ____ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

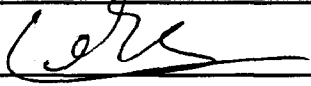
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;


AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Bao Feng	ASSIGNOR'S SIGNATURE 	DATE 12/19/2006
ADDRESS 1000 Shoreline Ct., Dunlap, IL 61525		CITIZENSHIP P. R. China

Listing of Inventors Continued on Page 2 hereof Yes No

1. WITNESS NAME Lei Feng	WITNESS SIGNATURE 	DATE 12/19/2006
ADDRESS 3507 Hugginsway Street		CITIZENSHIP
Pearland, TX 77584		U.S.A.

2. WITNESS NAME PINGJUN GUO	WITNESS SIGNATURE 	DATE 12/19/2006
ADDRESS 3507 HUGGINSWAY ST		CITIZENSHIP
PEARLAND, TX 77584		USA

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Andrew McGilvray	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 418 Harbor Pointe Dr., East Peoria, IL 61611		CITIZENSHIP United Kingdom

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Bo Shi	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1501 E. Gardner Ln., Apt # 1019, Peoria Heights, IL 61616		CITIZENSHIP P. R. China

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, provisional application Serial No. ____, filed ____ (if any), and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

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Listing of Inventors Continued on Page 2 hereof Yes No

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS	CITIZENSHIP	

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Andrew McGilvray	ASSIGNOR'S SIGNATURE <i>Andrew McGilvray</i>	DATE 18 Dec 06
ADDRESS 418 Harbor Pointe Dr., East Peoria, IL 61611	CITIZENSHIP United Kingdom	

1. WITNESS NAME CHUONG DAM	WITNESS SIGNATURE <i>Chuong Dam</i>	DATE Dec 18, 06
ADDRESS 7021 N. DRAYCOTT PL PEORIA IL 61615	CITIZENSHIP US	

2. WITNESS NAME Michael J. Pollard	WITNESS SIGNATURE <i>Michael J. Pollard</i>	DATE Dec 18, 2006
ADDRESS 226 W Gerald Dr. Peoria, IL 61615	CITIZENSHIP USA & Canada	

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Bo Shi	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1501 E. Gardner Ln., Apt # 1019, Peoria Heights, IL 61616	CITIZENSHIP P. R. China	

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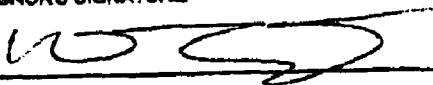
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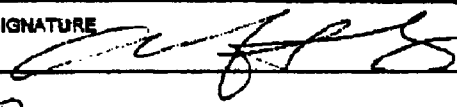
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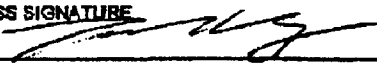
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ADDRESS		CITIZENSHIP

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ADDRESS		CITIZENSHIP

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Bo Shi	ASSIGNOR'S SIGNATURE 	DATE 12/20/06
ADDRESS 1501 E. Gardner Ln., Apt # 1019, Peoria Heights, IL 61616		CITIZENSHIP P. R. China

1. WITNESS NAME Chunfu Huang	WITNESS SIGNATURE 	DATE 12-20-06
ADDRESS 2118 W. Gerald Dr. Peoria, IL 61615		CITIZENSHIP Canada

2. WITNESS NAME Tao Hong	WITNESS SIGNATURE 	DATE 12/20/06
ADDRESS 10524 N. Liverpool Dr. Peoria, IL 61615		CITIZENSHIP China