

06-05-2008

FORM PTO-1595  
1-31-92



103506719

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.8137  
Attorney Customer Number: 58,98  
Mail Stop Assignment Recordation Service

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: a) Zhaoli HU b) Marion B. GRANT, Jr.	2. Name and address of receiving party(ies): Name: Caterpillar Inc.
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Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Internal Address: Intellectual Property Department
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3. Nature of conveyance:	Street Address: 100 N.E. Adams Street
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<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City: Peoria
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<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State: IL	Zip Code: 61629-6490
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<input type="checkbox"/> Other:	Additional name(s) & Address(es) attached?
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Execution Date: a) May 21, 2008 b) May 22, 2008	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: a) May 21, 2008; b) May 22, 2008

A. Patent Application Number(s):	B. Patent Number(s):
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Additional numbers attached?  Yes  No

4. Name and address of party to whom correspondence concerning document should be mailed: Name: Christopher P. Isaac	Total number of applications and registrations involved: 1
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Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.	5. Total fee (37 CFR 3.41): \$40
Street Address: 901 New York Avenue, N.W.	<input checked="" type="checkbox"/> Enclosed (Please charge deficiency to deposit account)
City: Washington, D.C.	<input type="checkbox"/> Authorized to be charged to deposit account

State: Zip: 20001	6. Deposit Account No. 06-0916
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7. 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.

Ryan C. Stockett, Reg. No. 53,642  May 28, 2008  
Signature Date

Total number of pages including cover sheet, attachments and documents: 3

### ASSIGNMENT

WHEREAS I/We, the below named inventors, hereinafter referred to as Assignors, have made an invention entitled:

#### MANUFACTURING SYSTEM FOR PRODUCING REVERSE-TAPERED ORIFICE

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

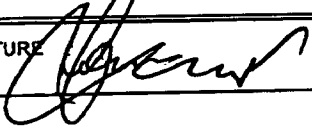
WHEREAS, **Caterpillar Inc.**, a corporation of **Delaware** whose post office address is **Intellectual Property Department, 100 N.E. Adams Street, Peoria, IL 61629-6490** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in 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 <b>Zhaoli HU</b>	ASSIGNOR'S SIGNATURE 	DATE <b>5/21/2008</b>
ADDRESS <b>11427 North Columbine Drive, Dunlap, IL 61525</b>		CITIZENSHIP <b>CHINA</b>

Listing of Inventors Continued on Page 2 hereof  Yes  No

1. WITNESS NAME Huijun Wang	WITNESS SIGNATURE <i>Huijun Wang</i>	DATE 05/21/2008
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2. WITNESS NAME Glenn A. Forthofer	WITNESS SIGNATURE <i>Glenn A. Forthofer</i>	DATE 5-21-08
ADDRESS 1353 N. Hickory Hills Rd, Metamora, IL 61548		CITIZENSHIP USA

2. FULL NAME OF SECOND ASSIGNOR Marion B. GRANT, Jr.	ASSIGNOR'S SIGNATURE <i>Marion B. Grant</i>	DATE 22 May 2008
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1. WITNESS NAME RAHUL GRAMI	WITNESS SIGNATURE <i>Rahul Grami</i>	DATE 5/22/08
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2. WITNESS NAME Fernando Martinez Diaz	WITNESS SIGNATURE <i>Fernando Martinez Diaz</i>	DATE 5/22/08
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