

10-03-2005

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.3261  
Attorney Customer Number: 22,852

Mail Stop Assignment Recordation Services

To the Director of the U.S. Patent and Trademark Office  
Please record the attached original document

103093368

1. Name of conveying party(ies): Hyung Kyu YOON Thomas E. CLEMENTS Daniel Patrick VERTENTEN David Anthony CUSAC		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: Intellectual Property Department	
3. Nature of conveyance: <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other: Corrective Recordation of Assignment, recorded Reel/Frame 016287/0638		Street Address: 100 N.E. Adams Street City: Peoria State: IL Zip Code: 61629-6490	
Execution Date: July 15, 2004; July 19, 2004; July 26, 2004 and July 23, 2004		Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	
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: A. Patent Application Number(s): 10/901,366 Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No B. Patent Number(s): <input type="checkbox"/> Yes <input type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Christopher P. Isaac Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. Street Address: 901 New York Avenue, N.W. City: Washington, D.C. State: Zip: 20001-4413		6. Total number of applications and registrations involved: 1 7. Total fee (37 CFR 3.41): \$40 <input type="checkbox"/> Enclosed (Please charge deficiency to deposit account) <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
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. Darren M. Jiron Reg. No. 45,777		8. Deposit Account No.: 06-0916 September 22, 2005 Signature Date	

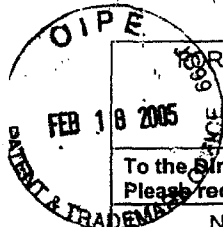
Total number of pages including cover sheet, attachments and documents: 13

10/03/2005 ECDOPER 00000095 060916 10901366

01 FC:8021

40.00 DA

PATENT  
REEL: 017041 FRAME: 0273



FORM PTO-1595  
1-31-92

08-06-2004



102808620

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Name of conveying party(ies):  
Hyung Kyu YOON  
Thomas E. CLEMENTS  
Daniel Patrick VERTENTEN  
David Anthony CUSAC

72904

2. Name and address of receiving party(ies)

Name: Caterpillar, Inc.

7302 U.S. PTO  
10/901366

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Internal Address: Intellectual Property Department

3. Nature of conveyance:

Street Address: 100 N.E. Adams Street

☒ Assignment

☐ Merger

City: Peoria

☐ Security Agreement

☐ Change of Name

State: IL Zip Code: 61629-6490

☐ Other:

Additional name(s) & Address(es) attached?

Execution Date: July 15, 2004, July 19, 2004, July 23, 2004 and July 26, 2004

☐ Yes ☐ No

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: July 14, 2004, July 15, 2004, July 19, 2004 and July 22, 2004

A. Patent Application Number(s):

10901366

10901366

B. Patent Number(s):

Additional numbers attached?

☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name:

6. Total number of applications and registrations involved:  
1

7. Total fee (37 CFR 3.41): \$40

☒ Enclosed (Please charge deficiency to deposit account)

☐ Authorized to be charged to deposit account

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

Street Address: 1300 I Street, N.W.

City: Washington, D.C.

State: Zip: 20005-3315

8. Deposit Account No.: 06-0916

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.

Darren M. Jiron  
Reg. No. 45,777

Signature

July 29, 2004

Date

Total number of pages including cover sheet, attachments and documents: 13

02-25-2005

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.3261  
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102948494

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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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<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"/> Other:		Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No	
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5. Name and address of party to whom correspondence concerning document should be mailed:  Name:		6. Total number of applications and registrations involved: 1	
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.		7. Total fee (37 CFR 3.41): \$40	
Street Address: 901 New York Avenue, N.W.		<input type="checkbox"/> Enclosed (Please charge deficiency to deposit account)	
City: Washington, D.C.		<input checked="" type="checkbox"/> Authorized to be charged to deposit account	
State: Zip: 20001-4413		8. Deposit Account No.: 06-0916	
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.  Darren M. Jiron Reg. No. 45,777			
		February 18, 2005	
Signature		Date	

Total number of pages including cover sheet, attachments and documents: 13

02/25/2005 ECOOPER 00000011 060916 10901366

01 FC:8021

40.00 DA

## ASSIGNMENT

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

### STEAM OXIDATION OF POWDER METAL PARTS

for which I/We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on \_\_, 2004 (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 61629-8490 (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 Hyung Kyu YOON	ASSIGNOR'S SIGNATURE 	DATE 7/15/2004
ADDRESS 5519 N. Deerfield Court, Peoria, Illinois 61615		CITIZENSHIP USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Thomas E. CLEMENTS	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 3637 W. Brenwick Drive, Peoria, Illinois 61614		CITIZENSHIP USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP


2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP


SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.3261  
Client Ref. No. 03-261


3. FULL NAME OF THIRD ASSIGNOR, IF ANY Daniel Patrick VERTENTEN	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2475 Coach and Surrey Lane, Aurora, Illinois 60506		CITIZENSHIP USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

4. FULL NAME OF FOURTH ASSIGNOR, IF ANY David Anthony CUSAC	ASSIGNOR'S SIGNATURE 	DATE 23-JUL-04
ADDRESS 366 East Ten Mile Creek Road, East Peoria, Illinois 61611		CITIZENSHIP USA

1. WITNESS NAME DWAYNE D. DIETZ	WITNESS SIGNATURE 	DATE 23 July 04
ADDRESS 22179 SPRING CREEK RD, WASHINGTON, IL 61571		CITIZENSHIP USA

2. WITNESS NAME ROBERT J. HERMAN	WITNESS SIGNATURE 	DATE 23 July 2004
ADDRESS 7627 W. BRIANNA DR, MAPLETON, IL 61547		CITIZENSHIP USA

## ASSIGNMENT

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

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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;

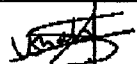
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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.

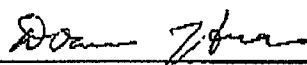
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1. FULL NAME OF SOLE OR FIRST ASSIGNOR Hyung Kyu YOON	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 5519 N. Deerfield Court, Peoria, Illinois 61615		CITIZENSHIP USA

Page 1 of 3

Post-it Fax Note	7671	Date	7/19/04	Pages	5
To	Darren J. Iron	From	Tom Clements	Co.	Caterpillar Inc.
Co/Dept	Financial Services	Phone #	309 578 8673	Fax #	309 578 9930
					202-408-4400

1. WITNESS NAME SWAPNIL VALLABH SHAH	WITNESS SIGNATURE 	DATE 7/19/04
ADDRESS 5815 N. Cypress Dr. Apt # 3606		CITIZENSHIP
Peoria, IL 61615		INDIAN

2. WITNESS NAME Diana Hua	WITNESS SIGNATURE 	DATE 7/19/04
ADDRESS 9203 N. Picture Ridge Rd.		CITIZENSHIP
Peoria, IL 61615		P. R. CHINA

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Thomas E. CLEMENTS	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 3537 W. Brenwick Drive, Peoria, Illinois 61614		CITIZENSHIP USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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3. FULL NAME OF THIRD ASSIGNOR, IF ANY Daniel Patrick VERTENTEN	ASSIGNOR'S 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;

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ADDRESS		CITIZENSHIP

2. FULL NAME OF SECOND ASSIGNOR, IF ANY THOMAS E. CLEMENTS	ASSIGNOR'S SIGNATURE <i>Thomas E. Clements</i>	DATE 7/19/04
ADDRESS 3637 W. BREWICK DRIVE, PEORIA, ILLINOIS 61614		CITIZENSHIP USA

1. WITNESS NAME Matt Yaklich	WITNESS SIGNATURE <i>Matt Yaklich</i>	DATE 7/19/04
ADDRESS 408 Orlando Ave. Normal, IL 61761		CITIZENSHIP

2. WITNESS NAME Mahmoud Taher	WITNESS SIGNATURE <i>M. Taher</i>	DATE 7/19/04
ADDRESS 5301 N. Castleberry Dr, Peoria, IL 61615		CITIZENSHIP USA

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Daniel Patrick VERTENTEN	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2475 Coach and Surray Lane, Aurora, Illinois 60506		CITIZENSHIP USA

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SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.3251  
Client Ref. No. 03-261

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Daniel Patrick VERTENTEN	ASSIGNOR'S SIGNATURE <i>Daniel P. Vertenten</i>	DATE 7/26/04
ADDRESS 2475 Coach and Surrey Lane, Aurora, Illinois 60506		CITIZENSHIP USA

1. WITNESS NAME <i>Amy Covert</i>	WITNESS SIGNATURE <i>Amy Covert</i>	DATE 7/28/04
ADDRESS 330 Bluebell Ct. Wakarusa, OH 44281		CITIZENSHIP USA

2. WITNESS NAME <i>Kristi Henry</i>	WITNESS SIGNATURE <i>Kristi Henry</i>	DATE 7/28/04
ADDRESS 3776 Fairway Road Dr. Apt. 308 Copley, OH 44321		CITIZENSHIP USA

4. FULL NAME OF FOURTH ASSIGNOR, IF ANY David Anthony CUSAC	ASSIGNOR'S SIGNATURE	DATE
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