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U.S. PTO 11/979408 11/02/2007

U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 08350.7820

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.	Mail Stop Assignment Recordation Service				
1. Name of conveying parties: Anthony J. GRICHNIK (assignor 1) James MASON (assignor 2) Timothy J. FELTY (assignor 3)	Name and address of receiving party: Name: Caterpillar Inc.				
Additional name of conveying party 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				
☐ Joint Research ☐ Government Interest Assignment	Additional name(s) & Address(es) attached?				
☐ Executive Order 9494, ☐ Other: Confirmatory License	☐ Yes				
Execution Date: November 1, 2007 (assignor 1) November 1, 2007 (assignor 2) November 1, 2007 (assignor 3)					
 Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: November 1, 2007 (assignor 1), November 1, 2007 (assignor 2), and November 1, 2007 (assignor 3). 					
A. Patent Application Number(s): /// 979 408	B. Patent Number(s):				
Additional numbers attached?	Yes				
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved				
Name: Christopher P. Isaac (202) 408-4000	7. Total fee (37 CFR 1.21(h) and 3.41): \$40				
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.	Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)				
Street Address: 901 New York Avenue, N.W.	Authorized to be charged to deposit account				
City: Washington, D.C.					
State: Zip: 20001-4413	8. Deposit Account No.: <u>06-0916</u>				
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: Wenye Tan, Reg. 55,662 Wenye Tan, Reg. 55,662 06 FC:8021 Total number of pages including cover sheet, attachments and documents: 4					

PATENT

REEL: 020148 FRAME: 0181

SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. 08350.7820-00000 Client Ref. No. 07-820

ASSIGNMENT

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

entitied;	
VIRTUAL SENSOR NETWORK (VSN) SYSTEM AND METHOD	
for which I/We executed an application for United States Letters Patent concurrently herewith or fit United States Letters Patent on(Serial No); and	ed an application for
WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intelle Department, 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), the entire right, title, and interest in and to this invention in all countries throughout the world, and i for United States Letters Patent on this invention and the Letters Patent to be issued upon this app	is desirous of securing n and to the application
NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$\frac{5}{2}\) other good and valuable consideration the receipt of which from Assignee is hereby acknowledged have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over useful successors and assigns, my/our entire right, title, and interest in and to this invention, provis No, filed (if any), and this application, and all divisions, and continuations thereof, and all Let United States which may be granted thereon, and all reissues thereof, and all rights to claim priority above provisional application (if any), as well as all rights to claim priority on the basis of this applications for Letters Patent which may hereafter be filed for this invention in any foreign country which may be granted on this invention in any foreign country, and all extensions, renewals, and not have been authorized and request the Commissioner of Patents and Trademarks of the United States of th	d, I/We, as Assignor(s), into the Assignee, its sional application Serial atters Patent of the cation, and all and all Letters Patent eissues thereof; and attes and any official of all Letters Patent for this att; I by this Assignment, on, communicate with tify in any legal ers that may be gos, execute all ng possible to aid
Assignee, its successors and assigns, to obtain and emoice proper patent protection for this inver- rand-any-foreign-country, it-being-understood-that-any-expense-incident-to-the-execution-of-suctrea- the Assignee, its successors and assigns.	
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.	
1. FULL NAME OF SOLE OR FIRST ASSIGNOR Anthony J. GRICHNIK ASSIGNOR'S BIGNATURE LIMITED ASSIGNATURE	DATE I NOV OF
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SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. 08350.7820-00000 Client Ref. No. 07-820

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REEL: 020148 FRAME: 0183

SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. 08350.7820-00000 Client Ref. No. 07-820

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