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U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 08350.5809-00
Attorney Customer Number: 58,982

Mail Stop Assignment Recordation Services

To the Director of the U.S. Patent :
Please record the attached original

1. Name of conveying party(ies):
Steven Christopher BRAY

2. Name and address of receiving party(ies):
Name: Caterpillar Inc.

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

Internal Address:

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

Joint Research Agreement

Government Interest Assignment

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

Executive Order 9494, Confirmatory License

Other:

Yes

No

Execution Date: August 31, 2006

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: August 31, 2006

A. Patent Application Number(s):

TO BE ASSIGNED

B. Patent Number(s):

Additional numbers attached?

Yes

No

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

Name: Brad C. Rametta

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 patents involved:
1

7. Total fee (37 CFR 1.21(h) and 3.41): \$40

Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)

Authorized to be charged to deposit account

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.

Signed:

Brad C. Rametta
Reg. 54,387

Sept. 21, 2006

Date

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

5/2006

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PATENT
REEL: 018333 FRAME: 0710

SOLE/JOINT INVENTION
 (Worldwide Rights)
 Attorney Docket No. 08350.5809
 Client Ref. No. 05-809

ASSIGNMENT

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

DATA ELEMENTS WITH SELECTABLE SIGNAL/PARAMETER BEHAVIOR CONTROL

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 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. 60/839,234, filed August 22, 2006, 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 Steven Christopher BRAY	ASSIGNOR'S SIGNATURE <i>Steven Christopher Bray</i>	DATE 31 August 2006
ADDRESS 754 West Wonderview Drive, Dunlap, IL 61525	CITIZENSHIP United States	

SOLE/JOINT INVENTION
 (Worldwide Rights)
 Attorney Docket No. 08350.5809
 Client Ref. No. 05-809

1. WITNESS NAME <i>Paul Bieder</i>	WITNESS SIGNATURE <i>Paul Bieder</i>	DATE <i>8/31/06</i>
ADDRESS <i>1530 Fondulac Dr</i>		CITIZENSHIP <i>USA</i>
<i>East Peoria, IL 61614</i>		

2. WITNESS NAME <i>Michael Allen Dworsky</i>	WITNESS SIGNATURE <i>Michael Allen Dworsky</i>	DATE <i>8/31/06</i>
ADDRESS <i>1813 W. Bal Aire Ave</i>		CITIZENSHIP <i>USA</i>
<i>Peoria, IL 61614</i>		