

03-01-2005

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 08350.3586
Attorney Customer Number: 22,852

Mail Stop Assignment Recordation Services

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



102950172

1. Name of conveying party(ies):
- 1) Joanna Louise Costura
 - 2) Matthew E. Williams
 - 3) Matthew T. Kiser
 - 4) Cornelius N. Opris
 - 5) J. Josh Driscoll
 - 6) Dave Michael Thaler
 - 7) Robert L. Meyer

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

17497 U.S. PTO
10/902148

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

Internal Address: Intellectual Property Department

3. Nature of conveyance: 7-30-04

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: 1) July 26, 2004, 2) July 27, 2004, 3) July 23, 2004,
4) July 23, 2004, 5) July 23, 2004, 6) July 23, 2004
and 7) 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: 1) July 30, 2004, 2) July 27, 2004, 3) July 23, 2004, 4) July 23, 2004, 5) July 23, 2004, 6) July 23, 2004 and 7) July 26, 2004

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? Yes No

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

6. Total number of applications and registrations involved:
1

Name:

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

08/02/2004 ADSMAN1 00000035 10902148
01 FC:8021 40.00 DP

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.

Ryan C. Stockett
Reg. No. 53,642

Ryan C. Stockett
Signature

July 30, 2004

Date

Total number of pages including cover sheet, attachments and documents: 21

ASSIGNMENT

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

PARTICULATE TRAP WITH SELECTIVE BLOCKING ELEMENT

for which 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

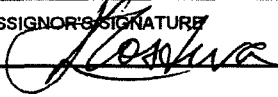
WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intellectual Property Department, 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries 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, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, 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 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, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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 Joanna Louise Costura	ASSIGNOR'S SIGNATURE 	DATE 26 July 04
ADDRESS 9903 N. Barbados Drive, Peoria, IL 61615		CITIZENSHIP British

Listing of Inventors Continued on Page 2 hereof Yes No

1. WITNESS NAME Dave Thaler	WITNESS SIGNATURE <i>Dave Thaler</i>	DATE 7/26/04
ADDRESS PO Box 301 Mussville IL 61552		CITIZENSHIP USA

2. WITNESS NAME JESSICA CROMPTON	WITNESS SIGNATURE <i>Jessica Crompton</i>	DATE 7/26/04
ADDRESS 452 N BAUMAN AVE, MORTON IL 61550		CITIZENSHIP USA

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Matthew E. Williams	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 209 Juniper Lane, East Peoria, IL 61611		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Matthew T. Kiser	ASSIGNOR'S SIGNATURE <i>Matthew T. Kiser</i>	DATE 7/23/04
ADDRESS 20902 N. Deerbluff Drive, Chillicothe, IL 61523		CITIZENSHIP U.S.A.

1. WITNESS NAME MARK S. GEISSLER	WITNESS SIGNATURE <i>Mark S. Geissler</i>	DATE 7/23/04
ADDRESS 300 PARKWAY LN, PEKIN, IL 61554		CITIZENSHIP USA

2. WITNESS NAME Dave Thaler	WITNESS SIGNATURE <i>Dave Thaler</i>	DATE 7/23/04
ADDRESS PO Box 301 Mossville IL 61552		CITIZENSHIP USA

4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Cornelius N. Opris	ASSIGNOR'S SIGNATURE <i>Cornelius N. Opris</i>	DATE 7/23/04
ADDRESS 5946 W. Ridgewest Circle, Peoria, IL 61615		CITIZENSHIP Denmark

1. WITNESS NAME MARI LOU BALMER-MILLAR	WITNESS SIGNATURE <i>Mari Lou Balmer-Millar</i>	DATE 7-23-04
ADDRESS 2211 E. TRUITT RD, CHILLICOTHE IL 61523		CITIZENSHIP USA

2. WITNESS NAME David J Kappanos	WITNESS SIGNATURE <i>David J Kappanos</i>	DATE 7-23-04
ADDRESS 213 N Louise St Chillicothe, IL 61523		CITIZENSHIP USA

5. FULL NAME OF FIFTH ASSIGNOR, IF ANY J. Josh Driscoll	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1700 W. Hickory Grove Rd., Building 1, Apt. 209, Dunlap, IL 61525		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Dave Michael Thaler	ASSIGNOR'S SIGNATURE <i>Dave Thaler</i>	DATE 7/23/04
ADDRESS P.O. Box 301, Mossville, IL 61552		CITIZENSHIP U.S.A.

1. WITNESS NAME <i>David J Kappanos</i>	WITNESS SIGNATURE <i>David J Kappanos</i>	DATE 7/23/04
ADDRESS <i>213 N Louise St. Chillumthe, IL 61523</i>		CITIZENSHIP USA

2. WITNESS NAME <i>JESSICA CRAMPTON</i>	WITNESS SIGNATURE <i>Jessica Crompton</i>	DATE 7/23/04
ADDRESS <i>452 N BAUMAN AVE. MORTON, IL 61523</i>		CITIZENSHIP USA

SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 08350.3586
Client Ref. No. 03-586

7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Robert L. Meyer	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 408 Elizabeth Pointe, Metamora, IL 61548		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
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for which 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 61629-6490 (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, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, 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 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, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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 Joanna Louise Coetura	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 9903 N. Barbados Drive, Peoria, IL 61615		CITIZENSHIP British

Listing of Inventors Continued on Page 2 hereof Yes No

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 Attorney Docket No. 08350.3586
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1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS	CITIZENSHIP	

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS	CITIZENSHIP	

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Matthew E. Williams	ASSIGNOR'S SIGNATURE <i>Matthew E. Williams</i>	DATE 7/27/04
ADDRESS 209 Juniper Lane, East Peoria, IL 61611	CITIZENSHIP U.S.A.	

1. WITNESS NAME <i>Ronald W Kibler</i>	WITNESS SIGNATURE <i>Ronald W Kibler</i>	DATE 7/27/04
ADDRESS <i>15125 N. Old Galena, Chillicothe IL 61523</i>	CITIZENSHIP <i>US</i>	

2. WITNESS NAME <i>Beth Lucas</i>	WITNESS SIGNATURE <i>Beth Lucas</i>	DATE 7/27/04
ADDRESS <i>6 Ladd Lane Spring Valley IL 61762</i>	CITIZENSHIP <i>US</i>	

SOLE/JOINT INVENTION
 (Worldwide Rights)
 Attorney Docket No. 08350.3586
 Client Ref. No. 03-586

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Matthew T. Kjaer	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 20902 N. Dearbluff Drive, Chillocothe, IL 61623		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Cornelius N. Opris	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 6846 W. Ridgewest Circle, Peoria, IL 61615		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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 Attorney Docket No. 08350.3586
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5. FULL NAME OF FIFTH ASSIGNOR, IF ANY J. Josh Driscoll	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1700 W. Hickory Grove Rd., Building 1, Apt. 208, Dunlap, IL 61525		CITIZENSHIP U.S.A.

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6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Dave Michael Thaler	ASSIGNOR'S SIGNATURE	DATE
ADDRESS P.O. Box 301, Mossville, IL 61552		CITIZENSHIP U.S.A.

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SOLE/JOINT INVENTION
 (Worldwide Rights)
 Attorney Docket No. 08350.3586
 Client Ref. No. 03-586

7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Robert L. Meyer	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 408 Elisabeth Pointe, Metamora, IL 61548		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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PARTICULATE TRAP WITH SELECTIVE BLOCKING ELEMENT

for which 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 61629-6490** (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, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, 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 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, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

AND, WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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 Joanna Louise Costura	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 9903 N. Barbados Drive, Peoria, IL 61615		CITIZENSHIP British

Listing of Inventors Continued on Page 2 hereof Yes No

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. FULL NAME OF SECOND ASSIGNOR, IF ANY Matthew E. Williams	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 209 Juniper Lane, East Peoria, IL 61611		CITIZENSHIP U.S.A.

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3. FULL NAME OF THIRD ASSIGNOR, IF ANY Matthew T. Kiser	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 20902 N. Deerbluff Drive, Chillicothe, IL 61523		CITIZENSHIP U.S.A.


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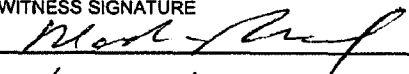
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4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Cornelius N. Opris	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 5946 W. Ridgewest Circle, Peoria, IL 61615		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
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5. FULL NAME OF FIFTH ASSIGNOR, IF ANY J. Josh Driscoll	ASSIGNOR'S SIGNATURE 	DATE July 23, 2004
ADDRESS 1700 W. Hickory Grove Rd., Building 1, Apt. 209, Dunlap, IL 61525		CITIZENSHIP U.S.A.

1. WITNESS NAME Wade Robel	WITNESS SIGNATURE 	DATE July 23, 2004
ADDRESS 1401 Maplewood		CITIZENSHIP USA
Normal IL 61761		

2. WITNESS NAME Gerald H. Coleman	WITNESS SIGNATURE 	DATE 7/23/2004
ADDRESS 11206 N. Daniel Ct. Dunlap, IL 61525		CITIZENSHIP USA

6. FULL NAME OF SIXTH ASSIGNOR, IF ANY Dave Michael Thaler	ASSIGNOR'S SIGNATURE	DATE
ADDRESS P.O. Box 301, Mossville, IL 61552		CITIZENSHIP U.S.A.

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7. FULL NAME OF SEVENTH ASSIGNOR, IF ANY Robert L. Meyer	ASSIGNOR'S SIGNATURE <i>Robert L. Meyer</i>	DATE 7-26-04
ADDRESS 408 Elizabeth Pointe, Metamora, IL 61548		CITIZENSHIP U.S.A.

1. WITNESS NAME <i>Michael E Mosley</i>	WITNESS SIGNATURE <i>Michael E Mosley</i>	DATE 7/26-04
ADDRESS <i>1128 W. 4th St, Peoria, IL 61604</i>		CITIZENSHIP U.S.A.

2. WITNESS NAME <i>David M Knapp</i>	WITNESS SIGNATURE <i>David M Knapp</i>	DATE 7/26/04
ADDRESS <i>1453 County Road 700 W Good Field, IL 61747</i>		CITIZENSHIP USA