

U.S. PTO

01-14-2008

FORM PTO-1595
1-31-9212/003721 RE
12/31/2007

103475030

U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 08350.4567-00000
Attorney Customer Number: 58,982

Mail Stop Assignment Recordation Services

To the Director of the U.S. Patent and Trademark Office.
Please record the attached original documents or copy thereof.

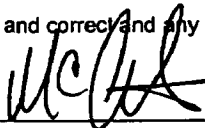
| | | | |
|--|--|---|--|
| 1. Name of conveying parties: (1) Brian D. Hoff (2) Sivaprasad Akasam | | 2. Name and address of receiving party: Name: Caterpillar Inc. | |
| Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | Internal Address: Intellectual Property Department | |
| 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger | | Street Address: 100 N.E. Adams Street | |
| <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name | | City: Peoria | |
| <input type="checkbox"/> Other: | | State: Illinois Zip Code: 61629-6490 | |
| Execution Date: (1) December 18, 2007 (2) December 17, 2007 | | Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" 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: (1) December 18, 2007 (2) December 17, 2007 | |
| A. Patent Application Number(s): | B. Patent Number(s): |
| Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |

| | | | |
|---|--|--|--|
| 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Timothy McAnulty | | 6. Total number of applications and registrations involved: one (1) | |
| Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. | | 7. Total fee (37 CFR 3.41): \$40 <input checked="" type="checkbox"/> Enclosed (Please charge deficiency to deposit account) <input type="checkbox"/> Authorized to be charged to deposit account | |
| Street Address: 901 New York Avenue, N.W. | | | |
| City: Washington | | | |
| State: D.C. 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.


Timothy McAnulty
Reg. No. 56,939

December 31, 2007

Date

Total number of pages including cover sheet, attachments and documents: 50000016 12003721

04 FC-0021

48.00 OP

ASSIGNMENT

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

SYSTEM FOR CONTROLLING A HYBRID ENERGY SYSTEM

for which We executed an application for United States Letters Patent concurrently herewith; 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 to be jointly owned by each;

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 Assignees, their 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 Assignees, their 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 We will, without further consideration, communicate with Assignees, their 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 Assignees, their successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignees, their 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 Assignees, their successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

| | | |
|---|---|---------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR Brian D. Hoff | ASSIGNOR'S SIGNATURE <i>Brian D Hoff</i> | DATE 18 Dec 2007 |
| ADDRESS 219 Justice Drive, East Peoria, Illinois 61611 | | CITIZENSHIP USA |
| | | |

SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 08350.4567-00000
Client Ref. No. 04-567
Customer No. 58,892

| | | |
|--|---|-------------------------|
| 1. WITNESS NAME Kazemak Uthachana | WITNESS SIGNATURE <i>[Signature]</i> | DATE 12-18-07 |
| ADDRESS 1417 W. Candlelight CT → Peoria, IL 61614 | | CITIZENSHIP Thailand |
| | | |

| | | |
|---|---|---------------------|
| 2. WITNESS NAME Kevin J Carew | WITNESS SIGNATURE <i>[Signature]</i> | DATE 18 Dec 2007 |
| ADDRESS 1024 N. Institute Place, Peoria, IL, 61606 | | CITIZENSHIP USA |
| | | |

| | | |
|---|----------------------|----------------------|
| 2. FULL NAME OF SECOND ASSIGNOR Sivaprasad Akasam | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS 9915 N Barbados Drive, Peoria, Illinois, 61615 | | CITIZENSHIP INDIA |
| | | |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |
| | | |

| | | |
|-----------------|-------------------|-------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |
| | | |

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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, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignees, their 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 Assignees, their 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 We will, without further consideration, communicate with Assignees, their 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 Assignees, their successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignees, their 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 Assignees, their successors and assigns.

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| ADDRESS 219 Justice Drive, East Peoria, Illinois 61611 | | CITIZENSHIP USA |
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 (Worldwide Rights)
 Attorney Docket No. 08350 4567-00000
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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |
| | | |

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|-----------------|-------------------|-------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |
| | | |

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|--|----------------------|-------------|
| 2. FULL NAME OF SECOND ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Sivaprasad Akasam | <i>[Signature]</i> | 12/17/2007 |
| ADDRESS | | CITIZENSHIP |
| 9915 N Barbados Drive, Peoria, Illinois, 61615 | | INDIA |
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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| RAMADEV HUKKERI | <i>[Signature]</i> | 12/17/07 |
| ADDRESS | | CITIZENSHIP |
| 7150 N TERRA VISTA DR #505 PEORIA IL 61614 | | US |
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|--|--------------------|-------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Avi Siegel | <i>[Signature]</i> | 12/17/07 |
| ADDRESS | | CITIZENSHIP |
| 5803 N Hymanow Ct Apt 2C Peoria IL 61615 | | US |
| | | |