FO.	RM PTO-1595 1-31-92	· CORREC	05-04-2	<del>-</del>	Pater Attor	nt and Trader ney Docket N	of Commerce nark Office Io. 08350.4380 er Number: 22,852
To the D	irector of the U.S.	Patent and Trac					ecordation Services
<u>Please r</u> 1.	Name of conveying a) Christopher Mich b) Edward Lee Sta c) Wesley Thomas d) John D. Baus e) Martin J. Keane	hael Morency pleton Payne	1032309  the or copy thereot.	2. Name:	Name and addres	_	party(ies):
Addition	al name(s) of conve	eying party(ies) attac	hed? ☐ Yes ☒ No	Internal A	Address:		
3.	Nature of conveyar	nce:		Street Ad	ddress: 100 N	N.E. Adams S	treet
	Assignment	☐ Merger		City:	Peoria		
	Security Agreement	☐ Change	of Name	State:	IL	Zip Code:	61629-6490
	Other: Corre recor 0163	73/0735	cument at Reel/Frame	Additiona	al name(s) & Addr	ess(es) attach	ned?
Execution Date:		006 e)March 10, 20	005 c)March 10, 2005 006				
4.	Application numbe the application:	r(s) or patent numbe	er(s): If this document is	being filed to	gether with a new	application, the	ne execution date of
A.	Patent Application	Number(s):		В.	Patent Number(s)	<b>)</b> :	
	11/019,311						
		Additiona	al numbers attached?	☐ Yes	⊠ No		
5.		s of party to whom c ent should be maile		6.	Total number of a involved:	ipplications ar	nd registrations
Name:	Christopher P. Isa	aac		7.	account)	ease charge o	deficiency to deposit
Internal		GAN, HENDERSON NER, L.L.P.	I, FARABOW, GARRET			~	8
Street A		ew York Avenue, NV	/				40
City:	Washingto	on, D.C.					00000121
State:		Zip:	20001	8.	Deposit Account	No.: <u>06-0916</u>	9000
9.	Statement and sig	nature.					Ĭ
To the b	est of my knowledg nt.	ge and belief, the for	egoing information is true	e and correct	t and any attached	I copy is a true	e cessy of the original
	nyan C. Stockett,	<u>neg. No. 53,642</u>	Sig	nature	un v	April 28, 20 D	ate
	T	Total number of pag	es including cover sheet,	attachments	s and documents:	13	

QE IAPR	OIP E 40
FORM PTO: 1595 1-31-92 3 14 05	U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 08350.4380 Attorney Customer Number: 22,852
To the Director of the U.S. Patent at 102963768 Please record the attached of the distribution 102963768	Mail Stop Assignment Recordation Services
1. Name of conveying party(ies): Christopher Michael Morency Edward Lee Stapleton Wesley Thomas Payne	Name and address of receiving party(ies):  Name: Caterpillar Inc.
Additional name(s) of conveying party(ies) attacked?  Yes No	Internal Address:
3. Nature of conveyance:	Street Address: 100 N.E. Adams Street
Assignment	City: Peoria
Security Change of Name Agreement	State: IL Zip Code: 61629-6490
Other:	Additional name(s) & Address(es) attached?
Execution Date: March 10, 2005	☐ Yes
<ul> <li>Application number(s) or patent number(s): If this document is the application:</li> <li>A. Patent Application Number(s):</li> </ul>	being filed together with a new application, the execution date of  B. Patent Number(s):
11/019,311	
Additional numbers attached?	☐ Yes
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and registrations involved:
Name: Christopher P. Isaac	7. Total fee (37 CFR 3.41): \$40
/2005 SZEWDIE1 00000078 11019311 :8021 40.00 OP	Enclosed (Please charge deficiency to deposit account)
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT	Authorized to be charged to deposit account
& DUNNER, L.L.P. Street Address: 901 New York Avenue, NW	
City: Washington, D.C.	
State: Zip: 20001	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 document.	and correct and any attached copy is a true copy of the original
Ryan C. Stockett, Reg. No. 53,642 Figar C	March 16, 2005 Date
Total number of pages including cover sheet,	attachments and documents: 4

# **ASSIGNMENT**

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

### **EXPANDABLE HYDRAULIC VALVE STACK**

for which I/We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on December 23, 2004 (Serial No. 11/019,311); 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. \_\_\_\_\_, 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 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.

FULL NAME OF SOLE OR FIRST ASSIGNOR     Christopher Michael Morency	ASSIGNOR'S SIGNATURE	DATE
ADDRESS  2804 Kilburne Lane, Apt. 201, Naperville, IL 60564		CITIZENSHIP USA

Page 1 of 1

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS	CITIZENSHIP	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Z. Williams		
ADDRESS		CITIZENSHIP
FULL NAME OF SECOND ASSIGNOR     Edward Lee Stapleton	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1308 Brentwood Place, Joliet, IL 60435		CITIZENSHIP USA
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
FULL NAME OF THIRD ASSIGNOR     Wesley Thomas Payne	ASSIGNOR'S SIGNATURE	DATE
FULL NAME OF THIRD ASSIGNOR     Wesley Thomas Payne  ADDRESS     11735 Heritage Meadows Drive, Plainfield, IL 60544	ASSIGNOR'S SIGNATURE	DATE  CITIZENSHIP  USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
a With Foo Mar	WITHER COUNTING	Lare
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
4. FULL NAME OF FOURTH ASSIGNOR	ASSICNODES SIGNATURE	DATE
John D. Baus	ASSIGNOR'S SIGNATURE D. Bus	3-10-06
ADDRESS 2789 Cranston Circle, Yorkville, IL 60560-4603		CITIZENSHIP USA
		I
1. WITNESS NAME WILLIAM F MASON	Wille + Waron	3/10/06
ADDRESS ZZOO HOLLISTER CT PL	WITNESS SIGNATURE WILL + Warsh AINFIELD, IL 60586-5921	CITIZENSHIP USA
2. WITNESS NAME KEVIN DUE	WITNESS SIGNATURE A COM	3/10/66
204 E Bailey Rd. A	dF	CITIZENSHIP USA
Naperville, IL 6050	(d5)	
5. FULL NAME OF FIFTH ASSIGNOR  Martin J. Keane	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 9537 S. Knox Avenue, Oak Lawn, IL 60453-3117		CITIZENSHIP USA
1. WITNESS NAME	WITNESS SIGNATURE	DATE
T. WITHEOUTHINE	WITHESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

Page 3 of 3

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

### **ASSIGNMENT**

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

# **EXPANDABLE HYDRAULIC VALVE STACK**

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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 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, IWE 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.

FULL NAME OF SOLE OR FIRST ASSIGNOR Christopher Michael Morency	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2804 Kilburne Lane, Apt. 201, Naperville, IL 60564		CITIZENSHIP USA

Page 1 of 1

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
FULL NAME OF SECOND ASSIGNOR     Edward Lee Stapleton	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1308 Brentwood Place, Joliet, IL 60435		CITIZENSHIP USA
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
		I
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
FULL NAME OF THIRD ASSIGNOR     Wesley Thomas Payne	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 11735 Heritage Meadows Drive, Plainfield, IL 60544		CITIZENSHIP USA

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2. WITNESS NAME	WITNESS SIGNATURE	DATE
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		GHZENSHIP
FULL NAME OF FOURTH ASSIGNOR     John D. Baus	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2789 Cranston Circle, Yorkville, IL 60560-4603		CITIZENSHIP USA
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
5. FULL NAME OF FIFTH ASSIGNOR Martin J. Keane	ASSIGNOR'S SIGNATURE Moutin J. Keane	DATE 3/10/06
ADDRESS 9537 S. Knox Avenue, Oak Lawn, IL 60453-3117		CITIZENSHIP USA
	M)	
1. WITHESS NAME NORMED E. SERUNGGAN;	WITNESS SIGNATURE	3/10/06
ADDRESS 1735 ATWOOD CINCLE, NATO	Se VILLE, /L 60565	CITIZENSHIP USA

Page 3 of 3

2. WITNESS NAME  PACE DOBRICH	WITNESS SIGNATURE	DATE 10 MAR 2006
ADDRESS  26 MEYER ST		CITIZENSHIP USA
PLANO, 16 605	45	

Page 4 of 4

**PATENT** 

**REEL: 017839 FRAME: 0913** 

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

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IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

FULL NAME OF SOLE OR FIRST ASSIGNOR     Christopher Michael Morency	ASSIGNOR'S SIGNATURE	DATE 03/10/05
ADDRESS	,	CITIZENSHIP
2804 Kilburne Lane, Apt. 201, Naperville, IL 60564	J	USA

Page 1 of 3

1. WITNESS NAME Frank Braier	WITNESS SIGNATURE From Bruin	DATE 10/MAR/05
ADDRESS	wood, IL 60431	CITIZENSHIP USA
2. WITNESS NAME John Mitchell	WITNESS SIGNATURE Atthell	DATE 10 Mar 05
ADDRESS 15355 Dan Patch Dr P	lainfield, IL 60544	CITIZENSHIP USA
FULL NAME OF SECOND ASSIGNOR     Edward Lee Stapleton	ASSIGNOR'S SIGNATURE	DATE 3/10/05
ADDRESS 1308 Brentwood Place, Joliet, IL 60435		CITIZENSHIP USA
1. WITNESS NAME Frank Breier	WITNESS SIGNATURE From Druin	DATE 19/MAR/05
Frank Breier	WITNESS SIGNATURE From Druin  d, TL 60431	
Frank Breier		19/MAR/05 CITIZENSHIP
Frank Breier		19/MAR/05 CITIZENSHIP
Frank Breier  ADDRESS 1706 Hunter Dr Shorewoo		19/MAR/05 CITIZENSHIP
ADDRESS 1706 Hunter Dr Shorewoo	d, IL 60431	CITIZENSHIP USA
ADDRESS 1706 Hunter Dr Shorewood  2. WITNESS NAME John Mitchell ADDRESS	WITNESS SIGNATURE  WITNESS SIGNATURE  WITNESS SIGNATURE	DATE LO Mar 05
Frank Breier  ADDRESS 1706 Hunter Dr Shorewoo  2. WITNESS NAME John Mitchell  ADDRESS 15355 Dan Potch Dr	WITNESS SIGNATURE Plaintield, 11 60544	DATE LO Mar 05 CITIZENSHIP USA  CITIZENSHIP USA
ADDRESS 1706 Hunter Dr Shorewood  2. WITNESS NAME John Mitchell ADDRESS	WITNESS SIGNATURE  WITNESS SIGNATURE  WITNESS SIGNATURE	DATE LO Mar 05
ADDRESS 1706 Hunter Dr Shorewood  2. WITNESS NAME John Mitchell  ADDRESS 15355 Dan Potch Dr  3. FULL NAME OF THIRD ASSIGNOR	WITNESS SIGNATURE Atthell Plainfield, IL 60544  ASSIGNOR'S SIGNATURE	DATE LO Mar 05 CITIZENSHIP USA  DATE LO Mar 05 CITIZENSHIP USA

1. WITNESS NAME Frank Breier	WITNESS SIGNATURE Frank Bruin	DATE 1 S/MAR/05
	Shorewood IL 60431	CITIZENSHIP USA
7700 1101112 1111		
2. WITNESS NAME John Mitchell	WITNESS SIGNATURE A LITTLE LA	DATE 10 Mar 05
2. WITNESS NAME John Mitchell ADDRESS 15355 Dan Patch Dr.	Plainfield, 11 60544	DATE 10 Mar 05 CITIZENSHIP USA

**RECORDED: 04/28/2006**