PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2792087

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRYANT A. MORRIS	03/03/2014
JEFFREY R. RIES	03/03/2014

RECEIVING PARTY DATA

Name:	CATERPILLAR INC.
Street Address:	100 NE ADAMS STREET
City:	PEORIA
State/Country:	ILLINOIS
Postal Code:	61629-9510

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14230111

CORRESPONDENCE DATA

Fax Number: (309)675-1236

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Phone: 309-636-2223

Email: US Docket Clerk@cat.com

Correspondent Name: CATERPILLAR INC. INTELLECTUAL PROPERTY D

Address Line 1: 100 N.E. ADAMS STREET

Address Line 2: AH 9510

Address Line 4: PEORIA, ILLINOIS 61629-9510

ATTORNEY DOCKET NUMBER:	13-1742
NAME OF SUBMITTER:	CHRISTY PARSONS
SIGNATURE:	/Christy Parsons/
DATE SIGNED:	03/31/2014

Total Attachments: 4

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PATENT REEL: 032558 FRAME: 0367

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ASSIGNMENT

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

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for which we will or have filed a patent application; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, and in and to the patent application for this invention and any and all patents to be issued upon this application throughout the world;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, we, as Assignors, have sold, assigned, transferred, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all patents which may be granted thereon, and all reissues thereof, as well as all rights to claim priority in any country or jurisdiction or patent office on the basis of this application, and all applications for patents which may hereafter be filed for this invention in any country or jurisdiction or patent office and all patents which may be granted on this invention in any country or jurisdiction or patent office, and all extensions, renewals, and reissues thereof; and we hereby authorize and request any official of any country or jurisdiction or patent office whose duty it is to issue patents on applications as described above, to issue all patents 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 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 the invention is said Assignee, its successors or assigns, execute all divisional, and desirable to perfect the title to the invention is said Assignee, its said assignee in any country or jurisdiction or perfect the title said assignee in any country or jurisdiction or perfect the said assignee in the said assignee.

AND, WE HERESY authorize the attorneys/representatives that we have empowered to prosecute this application to insert here in parentheses the country, application number, and official filling date ($\frac{US}{14/230,111}$ Med 03/31/2014).

IN TESTIMONY WHEREOF, we have bereunto set our hands.

n. FULL NAME OF FIRST ASSIGNOR Bryant A. Morris	ASSENDE SEGNATURE	date: 3/3/74
ADDRESS		COTTENSIND (/:///
5400 W. Sienna Lane, Apt 6201, Peoria	a, IL - 61615	US

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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ASSIGNMENT

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FILTER ASSEMBLY

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WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peona, State of Illinois, United States of America (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, and in and to the patent application for this invention and any and all patents to be issued upon this application throughout the world;

NOW THEREFORE, be it known that for 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, little, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all patents which may be granted thereon, and all reissues thereof, as well as all rights to claim priority in any country or jurisdiction or patent office on the basis of this application, and all applications for patents which may hereafter be filed for this invention in any country or jurisdiction or patent office and all patents which may be granted on this invention in any country or jurisdiction or patent office, and all extensions, renewals, and reissues thereof, and we hereby authorize and request any official of any country or jurisdiction or patent office whose duty it is to issue patents on applications as described above, to issue all patents 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 we will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and festify 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, the perfect that the perfect the title to this invention in said Assignee, its successor and provide the perfect that the perfect to this property or jurisdiction and provide the perfect to t

AND, WE HEREBY authorize the attorneys/representatives that we have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date ($\frac{\text{US}}{14/230,111}$ filed $\frac{03}{31/2014}$).

IN TESTIMONY WHEREOF, we have hereupto set our hands.

z full name of second assignor Jeffrey R. Ries	ASSESSORIE SIGNATURE	DATE 3/2814 .
ADORESS		CITIZENSHIP (e/
1330 N, Independence Ct., Metamora,	IL - 61548	US

1. WITHESS NAME	WITNESS SIGNATURE	DATE
Doros Nechaus		7/3/2014
ADDRESS		CITIZENSHIP
185 W. Compley Oal	es CT Durley 16 61925	
2. WITNESS NAME	wither Companies	DATE
2. WITNESS NAME.	vingste edgeriore Land All Carl	
ADDRESS ASH DAM	hp x 2 61555	DATE 3/3/2/4/ CITIZENSHIP