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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY D	ΑΤΑ				
		Name		Execution Date	
JASON E. FRIEDLUND				12/12/2016	
TODD G. NAKANISHI				12/09/2016	
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State/Country:	ILLINOI	S			
Postal Code:	61629				
Application Number:		15378096			
CORRESPONDENCE D					
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		; if that is unsuccessful, it			
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Email:		JS_Docket_Clerk@cat.com			
Correspondent Name: CATERPILLAR INC. INTELLECTUAL PROPERTY D					
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Address Line 4:		PEORIA, ILLINOIS 61629-9	510		
ATTORNEY DOCKET NU	JMBER:	16-1887			
NAME OF SUBMITTER: KELLY A UMHOLTZ					
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		/kelly a umholtz/			
NAME OF SUBMITTER: SIGNATURE: DATE SIGNED:					
SIGNATURE:		/kelly a umholtz/			
SIGNATURE: DATE SIGNED:	gnment#p	/kelly a umholtz/ 12/14/2016			
SIGNATURE: DATE SIGNED: Fotal Attachments: 3	gnment#p	/kelly a umholtz/ 12/14/2016 page1.tif page2.tif			

ASSIGNMENT

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

INVERTER ASSEMBLY FOR ELECTRIC POWER SYSTEM

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

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at 100 NE Adams Street, AH9510, 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, 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, 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 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 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 any country or jurisdiction or patent office, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, WE HEREBY auth	norize the attorneys	s/representatives that	we have empowered	to prosecute this application
to insert here in parentheses the	country, application	on number, and officia	I filing date (Application No.
filed).			

IN TESTIMONY WHEREOF, we have hereunto set our hands.

1. FULL NAME OF FIRST ASSIGNOR Jason E: Friedlund Address	ASSTGNOR'S SIGNATURE	date 12/12/14 Citizenship
238 Whispering Oaks Drive, Metamora, IL.6154	48, USA	US

Attorney Docket No. Client Ref. No. 16-1887

1. WITNESS NAME WITNESS SI	SNATURE	DATE
Thomas M. Bukpi Sho	me In Butien	12/12/16
ADDRESS 295 West Crestwood		
Peoria, 12 61614		
/		
2. WITNESS NAME WITNESS SU	SNATURE:	DATE
Tracy Tilton Z	in Vita	12/12/16
ADDRESS - 15809 N Brougham	Dr	CITIZENSHIP USA
Chillicothe IL 61523		

Attorney Docket No. Client Ref. No. 16-1887

ASSIGNMENT

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INVERTER ASSEMBLY FOR ELECTRIC POWER SYSTEM

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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, 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 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 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 any country or jurisdiction or patent office, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

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 (Application No.
, filed).	

IN TESTIMONY WHEREOF, we have hereunto set our hands.

2. FULL NAME OF SECOND ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Todd G. Nakanishi	Toold A. Mahanushi	09 DE16
ADDRESS		CITIZENSHIP
10915 N. Foxmeadow Dr., Brimfield, Illinois, 61	517 LISA	ບຣ

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RECORDED: 12/14/2016