502099391 10/18/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Joseph Faivre	10/17/2012
Yongliang Zhu	10/18/2012
Drew A. Fehr	10/17/2012

RECEIVING PARTY DATA

Name:	Caterpillar Inc.
Street Address:	100 N.E. Adams
City:	Peoria
State/Country:	ILLINOIS
Postal Code:	61629-6490

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	13654817	

CORRESPONDENCE DATA

Fax Number: 3126165700

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 2: 180 North Stetson Ave., Suite 4900 Address Line 4: Chicago, ILLINOIS 60601-6731

ATTORNEY DOCKET NUMBER:	710908

NAME OF SUBMITTER: Charles S. Cohen

Total Attachments: 3

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> PATENT REEL: 029153 FRAME: 0004

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ASSIGNMENT

WHEREAS, Joseph Faivre, hereinafter referred to as ASSIGNOR, has invented together with Yongliang Zhu and Drew A. Fehr a new and useful

System for Determining Coefficients of Seal Friction

for which ASSIGNOR has made application for Letters Patent in the United States of America, such
invention being described and identified by said application identified as Application No.
13/654,817 filed October 18, 2012 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 acquiring the
entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United
States of America and any foreign country;
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and
valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby
acknowledged by ASSIGNOR;
 ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right,
title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon
by the United States of America and any foreign country, including any continuing application, reissue or
extension thereof, together with the right to file applications and obtain patents for said invention in any
foreign country, and covenant that ASSIGNOR has the full right to do so.
2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to
ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any
application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper
protection for said invention in the United States of America and any foreign country.
3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND
TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar
Inc. 4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other
legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal
representatives.
representatives.
IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.
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Committee of the control of the cont
<u>Jaigh Jaure 14/7/2012</u>
JÓSEPH FAIVRE Date
NA Y NA INCOME POR COLOR AND LA
IN WITNESS OF the execution hereof by JOSEPH FAIVRE we have hereunto set our hands.
7 ch /190- 10-17-12 Robert Unerstee 10-17-12
$\frac{\int ch / dc}{\text{Witness (1)}} \frac{\sqrt{-17-12}}{\text{Date}} \frac{Q_{0} = 1 / \sqrt{-17-12}}{\text{Witness (2)}} \frac{\sqrt{-17-12}}{\text{Date}}$
Address: 6004 // (4m/4ca Ed) Address: 82326 VENTRELO Acria JC (665 PEORIA U. 6665
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Attorney Docket No. 710908 Client Ref. No. 12-1227

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PATENT REEL: 029153 FRAME: 0006

Attorney Docket No. 710908 Client Ref. No. 12-1227

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Ow A. Flu	10/17/	Z3/2	
DREW A. FEHR	Date		
IN WITNESS OF the execution hereof by DRE	W A. FEHR we be	we hergunto set o	ur hands. <i>- (8 oct 22/2</i>
Witness (1) Date	Witness (2)	···········	Date
Address:	Address:	·····	
3501 W TEDFORD PR	<u> </u>	BROOKVII	160 <u>(.w.</u>
PEORIA IL GIMY	Pecen.	16 61611	· · ·

PATENT REEL: 029153 FRAME: 0007

RECORDED: 10/18/2012