

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID R. HALL	07/23/2013
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<b>Name:</b>	CATERPILLAR SARL
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<b>City:</b>	GENEVA
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	1208
<b>PROPERTY NUMBERS Total: 9</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	7681338
Patent Number:	7976238
Patent Number:	7976239
Patent Number:	8256847
Patent Number:	8262168
Patent Number:	8403595
Patent Number:	8485756
Patent Number:	8770668
Patent Number:	8899870
<b>CORRESPONDENCE DATA</b>	
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<b>NAME OF SUBMITTER:</b>	LINDA L. MAYERNICH
<b>SIGNATURE:</b>	/Linda L. Mayernich/

PATENT

<b>DATE SIGNED:</b>	08/07/2015
<b>Total Attachments: 2</b> source=DRH-CatSARL#page1.tif source=DRH-CatSARL#page2.tif	

## INTELLECTUAL PROPERTY ASSIGNMENT

WHEREAS, David R. Hall ("Assignor") is the owner of the following U.S. Patents and Applications:

Docket No.	Serial No.	Filing Date	Patent No.	Title
85.0054-1	12/847,674	30-Jul-10		A Method for Providing Pavement Degradation Equipment
85.0207	11/871,878	12-Oct-07	7,681,338	Rolling Assembly and Pick Assembly Mounted on a Trencher
85.0379	12/844,996	28-Jul-10		Pavement Degradation System with a Diesel Electric Drum
85.0384	12/888,200	22-Sep-10	8,262,168	Multiple Milling Drums Secured to the Underside of a Single Milling Machine
85.0385	12/888,876	23-Sep-10	7,976,238	An End of a Moldboard Positioned Proximate a Milling Drum
85.0385 PCT	US11/40238	13-Jun-11		An End of a Moldboard Positioned Proximate a Milling Drum
85.0386	12/888,958	23-Sep-10	7,976,239	An End of a Moldboard Positioned Proximate a Milling Drum
85.0387	12/894,309	30-Sep-10	8,403,595	A Plurality of Liquid Jet Nozzles and a Blower Mechanism that are Directed into a Milling Chamber
85.0402	12/957,059	30-Nov-10		Billing System Integrated into a Milling Machine
85.0403	12/957,119	30-Nov-10		Quick Exchange for a Milling Drum Assembly
85.0403 PCT	US11/52336	20-Sep-11		Quick Exchange for a Milling Drum Assembly
85.0404	12/957,154	30-Nov-10	8,256,847	Rotational Milling Chamber
85.0406	12/978,208	23-Dec-10		Heated Liquid Nozzles Incorporated into a Moldboard
85.0453P	61/678,362	1-Aug-12		Surface Preparation System
85.0453	13/940,771	12-Jul-13		Surface Preparation System
85.0454P	61/678,371	1-Aug-12		Milled Uniform Travel Surface
85.0454	13/941,721	15-Jul-13		Milled Uniform Travel Surface

WHEREAS, Caterpillar SARL, formed under the laws of Switzerland, located at 76 Route de Frontenex, 1208 Geneva, Switzerland ("Assignee") desires to acquire the entire right, title, and interest in and to the U.S. Patents and Applications identified above, and all patents which may be obtained from said Applications;

WHEREAS, the Assignor and Assignee, along with certain others, have entered into that certain Sale, License, and Services Agreement, dated December 7, 2012 (the "Services Agreement");

NOW, THEREFORE, for valuable and legally sufficient consideration, the receipt of which is hereby acknowledged, the Assignor hereby assigns and transfers to the Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in and to the U.S. Patent Application(s) identified above, and any patents that may issue for said Application(s) in the United States and in all other countries together with the entire right, title and interest in all continuations, divisionals, renewals and

extensions thereof to the full end of the term or terms for all such patents, subject to the prior rights and interests of Schlumberger Technology Corporation and Kennametal, Inc. as contemplated in the Services Agreement.

The U.S. Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of the Assignment.

IN TESTIMONY WHEREOF, I have duly executed this assignment on this 23rd day of July, 2013.

  
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David R. Hall