

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JENS STEINBERG</td> <td>11/18/2013</td> </tr> <tr> <td>JOACHIM RASCHKA</td> <td>11/18/2013</td> </tr> <tr> <td>FRANK HERRMANN</td> <td>11/15/2013</td> </tr> <tr> <td>CHRISTIAN SCHREITER</td> <td>11/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	JENS STEINBERG	11/18/2013	JOACHIM RASCHKA	11/18/2013	FRANK HERRMANN	11/15/2013	CHRISTIAN SCHREITER	11/18/2013
Name	Execution Date										
JENS STEINBERG	11/18/2013										
JOACHIM RASCHKA	11/18/2013										
FRANK HERRMANN	11/15/2013										
CHRISTIAN SCHREITER	11/18/2013										
RECEIVING PARTY DATA											
Name:	CATERPILLAR GLOBAL MINING EUROPE GMBH										
Street Address:	INDUSTRIESTRASSE 1										
City:	LUNEN										
State/Country:	GERMANY										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14116574</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14116574						
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Application Number:	14116574										
CORRESPONDENCE DATA											
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Correspondent Name:	JOHN M. LAZARUS										
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ATTORNEY DOCKET NUMBER:	017330-0802										
NAME OF SUBMITTER:	JOHN M. LAZARUS										
Signature:	/John M. Lazarus/										

Date:

11/22/2013

Total Attachments: 8

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**ASSIGNMENT**

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

**APPARATUS FOR THE MILLING CUTTING OF ROCK, MINERALS OR OTHER MATERIALS**

for which I/We will or have filed a patent application; and

WHEREAS, Caterpillar Global Mining Europe GmbH, a corporation whose post office address is Industriestrasse 1, Lünen, Germany (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;

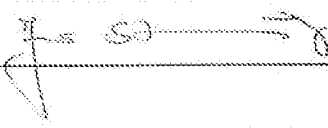
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, 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 I/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, 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 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, I/WE HEREBY authorize Assignee or its attorneys/representatives of Assignee to insert here in parentheses the country, application number, and official filing date (U.S. Application No. 14/116,574, with a filing date of April 24, 2012).

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

1. FULL NAME OF ASSIGNOR Jens Steinberg	ASSIGNOR'S SIGNATURE 	DATE Nov. 18, 2013
ADDRESS Falkenweg 23, 44534 Lünen, Germany		CITIZENSHIP Germany

SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 017330-0802  
Client Ref. No. 12-1047

1. WITNESS NAME Roschka Joachim	WITNESS SIGNATURE Joachim Roschka	DATE Nov. 18, 2013
ADDRESS Zur Waltschwiede 23, 44805 Bochum	CITIZENSHIP German	

2. WITNESS NAME Bianca Beerling	WITNESS SIGNATURE Bianca Beerling	DATE 11/18/2013
ADDRESS Dronke-Hilshoff-Str 4 45711 Datteln	CITIZENSHIP German	

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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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NOW THEREFORE, be it known that for 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, 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 I/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, 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;

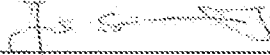
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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 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;

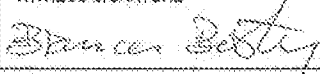
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IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF ASSIGNOR Joachim Raschka	ASSIGNOR'S SIGNATURE <i>Joachim Raschka</i>	DATE Nov. 18, 2013
ADDRESS Zur Waldschmiede 23, 44805 Bochum, Germany		CITIZENSHIP Germany

SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 017330-0882  
Client Ref. No. 12-1047

1. WITNESS NAME	WITNESS SIGNATURE	DATE
JENS STEINBERG		Nov. 18, 2013
ADDRESS FALKENWEG 23		CITIZENSHIP GERMAN
44 534 LUENEN		

2. WITNESS NAME	WITNESS SIGNATURE	DATE
Bianca Boersting		11/18/2013
ADDRESS Droste-Hilshoff-Str. 4		CITIZENSHIP German
45711 Datteln		

ASSIGNMENT

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

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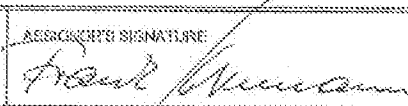
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, 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 I/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;

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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 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;

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

1. FULL NAME OF ASSIGNOR Frank Herrmann	ASSIGNOR'S SIGNATURE 	DATE 11/15/2013
ADDRESS Feudelstraße 13, 09125 Chemnitz, Germany		CITIZENSHIP Germany

SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 017330-0802  
Client Ref. No. 12-1047

1. WITNESS NAME Swann Mai	WITNESS SIGNATURE Swann Mai	DATE 11/15/2013
ADDRESS Hauptstraße 291, 09355 Gersdorf		CITIZENSHIP Germany

2. WITNESS NAME Herkun Anderson	WITNESS SIGNATURE Herkun Anderson	DATE 11/15/2013
ADDRESS Dr.-R.-Koch-Str. 1, 03217 Burgstädt		CITIZENSHIP Germany



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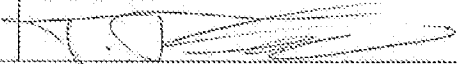
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IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF ASSIGNOR Christian Schreiter	ASSIGNOR'S SIGNATURE 	DATE 7-18-2011
ADDRESS Gelenauer Straße 34, 09430 Drebach, Germany		CITIZENSHIP Germany

SOLEJOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 017330-0902  
Client Ref. No. 12-1047

1. WITNESS NAME	WITNESS SIGNATURE	DATE
Tristan Tummel		11-18-2013
ADDRESS Weststraße 52, 09112 Chemnitz, Germany		CITIZENSHIP Germany

2. WITNESS NAME	WITNESS SIGNATURE	DATE
Franz Hegewald		11-18-2013
ADDRESS Besenstraße 77, 09113 Chemnitz, Germany		CITIZENSHIP Germany