

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Borje Johansson</td> <td>04/03/2008</td> </tr> <tr> <td>Sigurd Grimestad</td> <td>04/03/2008</td> </tr> </tbody> </table>		Name	Execution Date	Borje Johansson	04/03/2008	Sigurd Grimestad	04/03/2008
Name	Execution Date						
Borje Johansson	04/03/2008						
Sigurd Grimestad	04/03/2008						
RECEIVING PARTY DATA							
Name:	ABB AB						
Street Address:	Forskargrand 8						
City:	SE-72178 Vasteras						
State/Country:	SWEDEN						
PROPERTY NUMBERS Total: 1							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12126696</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12126696		
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Application Number:	12126696						
CORRESPONDENCE DATA							
Fax Number:	(203)327-1096						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	(203) 324-6155						
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Correspondent Name:	Wesley W. Whitmyer, Jr.						
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ATTORNEY DOCKET NUMBER:	04191-P0016A						
NAME OF SUBMITTER:	Wesley W. Whitmyer Jr.						
Total Attachments: 3 source=Assignment to ABB AB#page1.tif source=Assignment to ABB AB (2)#page1.tif source=Assignment to ABB AB (3)#page1.tif							

OP \$40.00 12126696

Assignment

WHEREAS, We, the undersigned inventors, have made certain inventions or discoveries (or both) as set forth in an application for Letters Patent of the United States of America, entitled **Method To Increase The Head Rope Life For Single Conveyance Friction Mine Hoists For Deep Shafts**, bearing Patent Application Serial No. 12/126,696 and filed on May 23, 2008;

WHEREAS, ABB AB, a company organized and existing under the laws of Sweden, and having an office and place of business at Forskargränd 8; SE-721 78 Vasteras, SWEDEN, and, together with its successors and assigns is hereinafter called "Assignee", and is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

NOW THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in any and all countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patents to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents, including

Assignment

Applicants: Borje Johansson, et al.

petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns, which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN WITNESS WHEREOF, we, Borje Johansson and Sigurd Grimestad, have hereunto set our hands and affixed our seals.

2008-04-03
Date

Borje Johansson
Borje Johansson
Kristiansborgsallen 19
SE-722 19 Vasteras, Sweden

Declaration of Witness

I declare that I was personally present and did see Borje Johansson, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Vasteras, on 2008-04-03.

Kjell Carlsten
Signature of Witness

Kjell Carlsten
Name of Witness

3 April 2008
Date

Sigurd Grimestad
Sigurd Grimestad
Vastarvindsgatan 19
SE-723 50 Vasteras, Sweden

Declaration of Witness

I declare that I was personally present and did see Sigurd Grimestad, who is personally known to me to be the person named in this assignment, duly sign and execute the same.

Declared at Västerås, Sweden, on 3 April 2008.

Daniel Sundhæk
Signature of Witness

DANIEL SUNDHÆK
Name of Witness