

## PATENT ASSIGNMENT COVER SHEET

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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>
FREDRIK LARSSON	01/09/2020
HENRIK PERSSON	12/27/2019
LARS GRÖNVALL	12/23/2019
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<b>Postal Code:</b>	231 22
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16614634
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(414)271-5770
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<b>ATTORNEY DOCKET NUMBER:</b>	5002-00072
<b>NAME OF SUBMITTER:</b>	JOSEPH D. KUBORN
<b>SIGNATURE:</b>	/Joseph D. Kuborn/
<b>DATE SIGNED:</b>	02/26/2020
<b>Total Attachments: 3</b>	
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ASSIGNMENT	Attorney Docket No. 5002-00072
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Inventors: Fredrik Larsson, Henrik Persson, Lars Grönvall

Title: WEIGHT OPTIMIZATION

WHEREAS, WE, FREDRIK LARSSON, of Malmö, Sweden, HENRIK PERSSON, of Trelleborg, Sweden, and LARS GRÖNVALL, of Trelleborg, Sweden, have invented certain new and useful improvements as described in an application entitled Weight Optimization for Letters Patent of the United States, the application having been executed on even date herewith, and/or being identifiable in the United States Patent and Trademark Office by Application No. 16/614,634 filed November 18, 2019; and

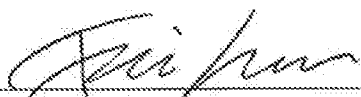
WHEREAS, Metso Sweden AB., a corporation organized and existing under the laws of Sweden, and having offices at P.O. Box 132, Trelleborg, Sweden, 231 22, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;


NOW, THEREFORE, for goods and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified application, corresponding domestic and foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and we authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

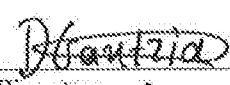
We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date and serial number of the application when ascertained.


We authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

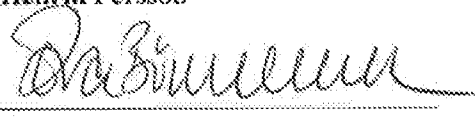
We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with the Assignment. We, our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.

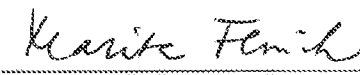
Inventor:  Date: 2020-01-09  
Fredrik Larsson

Witnessed by:  Date: 2020-01-09  
Signature  
ALEJANDRO FABUEL  
Printed Name of Witness

Witnessed by:  Date: 2020-01-09  
Signature  
Damai Gantzia  
Printed Name of Witness

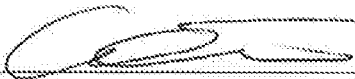
Inventor:  Date: 2019-12-27  
Henrik Persson

Witnessed by:  Date: 2019-12-27  
Signature  
Eva Bonnemarl  
Printed Name of Witness

Witnessed by:  Date: 2019-12-27  
Signature  
Marita Flinck  
Printed Name of Witness

Attorney Docket No. 5002-00072

402


Inventor:   
Lars Gröavall

Date: 2019-12-23

Witnessed by:   
Signature

Date: 2019-12-23

Eva Bönne mark  
Printed Name of Witness

Witnessed by:   
Signature

Date: 2019-12-23

Marita Flinck  
Printed Name of Witness

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Attorney Docket No. 5002-00072