## 503351887 06/16/2015

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3398508

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
TOBIAS LÖÖF	06/04/2015
PATRIK PETTERSSON	06/02/2015
JONAS ORGÅRD	05/29/2015
HANS LÖVGREN	05/27/2015
PER WALLIN	06/02/2015
PETER NYKVIST	05/28/2015
JONAS MAGNUSSON	05/27/2015

### **RECEIVING PARTY DATA**

Name:	VALMET AB
Street Address:	VALMET AB
City:	SUNDSVALL
State/Country:	SWEDEN
Postal Code:	851 94

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14650781

### **CORRESPONDENCE DATA**

**Fax Number:** (908)654-7866

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email: Assignment@ldlkm.com

Correspondent Name: LDLK&M

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ATTORNEY DOCKET NUMBER:	SUNDS 3.3-174 (E)
NAME OF SUBMITTER:	ARNOLD H. KRUMHOLZ
SIGNATURE:	/Arnold H.Krumholz/
DATE SIGNED:	06/16/2015

PATENT REEL: 035921 FRAME: 0157

503351887

# Total Attachments: 7 source=SUNDS 3#page1.tif source=SUNDS 3#page2.tif source=SUNDS 3#page3.tif source=SUNDS 3#page4.tif source=SUNDS 3#page5.tif source=SUNDS 3#page6.tif source=SUNDS 3#page7.tif

former PTO/SB/15 (\$430) Modified LDLK&M

A O O I O MARCHET OF TITH ITY A PRI LO A TION	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	SUNDS 3.3-174 (E)	
Whereas, I, Tobias Lööf	of	
Våle 211, S-860 35 Söråker, SWEDEN		
hereafter referred to as assignor, have with others invented certain	ain new and useful improvements in	
AN APPARATUS FOR WASHING AND/OR DEWATERNG OF CELLULOSE PULP		
x for which an application for a United States Letters Patent was filed on June 9, 2015  Application Number 14/650,781		
for which an application for a United States Letters Pater	nt was executed by me on	
x for which an International Application was filed on	December 19, 2013 , as	
PCT/SE2013/051570 , designating the United	States.	
And		
Whereas, Valmet AB		
a corporation of Finland herein referred to as "assignee" whose	mailing address is	
Valmet AB, SE-851 94 Sundsvall, SWEDEN		
is desirous of acquiring the entire right, title and interest in the sa	ame;	
is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.		
And I do hereby authorize my attorneys to insert on this deed th when known.	e filing date and application number of said application	
4/6-2015		
Date  Witness  Malin Svelander  Typed Name of Witness	Tobias Lööf	
x *Total of 7 forms are submitted.		

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Somer PTO/SB/15 (8-98) Mod/Red LDLK&M Docket Number (Optional)

A 200 AND C 200 B K 20 CH 2000 B K 2000 B CON 2000 2 C 20000 2 C 2000 3 C A 200 3 200 C A 200 A 200 A 200 A 20	Docket Number (Optional)		
ASSIGNMENT OF UTILITY APPLICATION	SUNDS 3.3-174 (E)		
Whereas, I, Patrik Pettersson of			
Fullriggarvägen 43, S-865 32 Alnö, SWEDEN			
hereafter referred to as assignor, have with others invented certain	ain new and useful improvements in		
AN APPARATUS FOR WASHING AND/OR DEWATE	RNG OF CELLULOSE PULP		
x for which an application for a United States Letters Patent was filed on June 9, 2015  Application Number 14/650,781			
for which an application for a United States Letters Patent was executed by me on			
for which an International Application was filed on			
PCT/SE2013/051570 , designating the United	States.		
whereas, Valmet AB a corporation of Finland herein referred to as "assignee" whose	mailing address is		
Valmet AB, SE-851 94 Sundsvall, SWEDEN	Tricking data 300 io		
is desirous of acquiring the entire right, title and interest in the sa	ame;		
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollar (\$ <u>1.00</u> ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses			
And I do hereby authorize my attorneys to insert on this deed th when known.	e filing date and application number of said application		
2015-06-02	Vital Jellen		
Date Patrik Pettersson  Wilness  Malin Svelander  Typed Name of Witness			
x *Total of 7 forms are submitted.			

former FTO(SB/15 (8-00) Modified LDLK&M

	Docket Number (Optional)		
ASSIGNMENT OF UTILITY APPLICATION	SUNDS 3.3-174 (E)		
Whereas, I, Per Wallin of  Eskadervägen 2, S-865 32 Ainö, SWEDEN  hereafter referred to as assignor, have with others invented certain new and useful improvements in  AN APPARATUS FOR WASHING AND/OR DEWATERNG OF CELLULOSE PULP  X for which an application for a United States Letters Patent was filed on June 9, 2015			
Application Number 14/650,781  for which an application for a United States Letters Patent was executed by me on , , , , , , , , , , , , , , , , , ,			
PCT/SE2013/051570 , designating the United States.  And  Whereas, Valmet AB a corporation of Finland herein referred to as "assignee" whose mailing address is Valmet AB, SE-851 94 Sundsvall, SWEDEN is desirous of acquiring the entire right, title and interest in the same;  NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue			
applications and patents applied for or granted therefor in the said invention, including without limitation all applications and the aforesaid utility application pursuant to any law or treaty, a infringement with the right to sue for and collect the same for legal representatives, and including the right to claim such properties in the properties and assigned assigned herein, as assigned of the entire interest representatives, heirs and assigns do hereby agree and covernall original, divisional, continuation, reissue and other applicates assignments thereof to said assigned or its assigns, to commit known to the undersigned respecting said improvements, where legal proceedings in which any of said applications or patents all rightful oaths, and to do generally everything necessary to obtain patent protection for said improvements in all countries, and paid by said assignee.	e United States of America and all other countries, for patents for said invention claiming priority or benefit of and including all claims for damages by reason of past its own use and the use of its successors, assigns and iority or benefit and the Commissioner of Patents and extents on said improvements or resulting therefrom to therein; and the undersigned for me and my legal ant without further remuneration, to execute and deliver tions for Letters Patent on said improvements and all unicate to said assignee or its representatives all facts never requested, to testify in any interferences or other may become involved, to sign all lawful papers, make aid assignee, its successors, assigns and nominees to		
And I do hereby authorize my attorneys to insert on this deed to when known.	ne filing date and application number of said application		
2015-06-02	11-		
Date Witness Malin Sweander Typed Name of Witness	Per Wallin		
x *Total of 7 forms are submitted.			

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ASSIGNMENT OF UTILITY APPLICATION	SUNDS 3.3-174 (E)	
Whereas, I, Jonas Orgård		
Stödevägen 5B, SE-860 13 Stöde, SWEDEN		
hereafter referred to as assignor, have with others invented certain	ain new and useful improvements in	
AN APPARATUS FOR WASHING AND/OR DEWATE	RNG OF CELLULOSE PULP	
x for which an application for a United States Letters Patent was filed on Application Number 14/650,781		
for which an application for a United States Letters Pater		
x for which an International Application was filed on	December 19, 2013 , as	
PCT/SE2013/051570 , designating the United	States.	
And	***	
Whereas, Valmet AB	mailing addraga is	
a corporation of <u>Finland</u> herein referred to as "assignee" whose Valmet AB, SE-851 94 Sundsvall, SWEDEN	maining address is	
is desirous of acquiring the entire right, title and interest in the sa	ime;	
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollar (\$ <u>1.00</u> ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said Invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliverall original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses		
And I do hereby authorize my attorneys to insert on this deed the when known.	e filing date and application number of said application	
A 4 02		
2015-05-29	<u> </u>	
Date Witness  Malin Sudander Typed Name of Witness	Jonas Crgard	
x *Total of 7 forms are submitted.		

former PTO/S8/15 (8-89) Modified LDLK&M

	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	SUNDS 3.3-174 (E)	
Whereas, I, Peter Nykvist	of	
Hästskovägen 23, S-861 34 Timrå, SWEDEN	and the second s	
hereafter referred to as assignor, have with others invented certain the second of the	8	
AN APPARATUS FOR WASHING AND/OR DEWATE		
for which an application for a United States Letters Patent was filed on June 9, 2015  Application Number 14/650,781		
for which an application for a United States Letters Patent was executed by me on		
x for which an International Application was filed on	December 19, 2013 , as	
PCT/SE2013/051570 , designating the United	States	
And	***	
Whereas, Valmet AB		
a corporation of Finland herein referred to as "assignee" whose	mailing address is	
is desirous of acquiring the entire right, title and interest in the sa	nme;	
is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.		
And I do hereby authorize my attorneys to insert on this deed the when known.	e filing date and application number of said application	
2015-05-23	Per y -	
Date  Witness  Malin Swilandor  Typed Name of Witness	Peter Nykvist	
x *Total of 7 forms are submitted.		

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ASSIGNMENT OF UTILITY APPLICATION	SUNDS 3.3-174 (E)	
	of	
Blåmesvägen 1, S-856 53 Sundsvall, SWEDEN		
hereafter referred to as assignor, have with others invented certain		
AN APPARATUS FOR WASHING AND/OR DEWATE	RNG OF CELLULOSE PULP	
x for which an application for a United States Letters Pate Application Number 14/650,781	ent was filed on June 9, 2015	
for which an application for a United States Letters Pater	it was executed by me on,	
x for which an International Application was filed on	December 19, 2013 , as	
PCT/SE2013/051570 , designating the United	States.	
	eccese.	
Whereas, Valmet AB		
a corporation of Finland herein referred to as "assignee" whose	mailing address is	
Valmet AB, SE-851 94 Sundsvall, SWEDEN is desirous of acquiring the entire right, title and interest in the sa	we.	
to desire so or doquining the entire right, and and interest in the se		
NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses inc		
when known.	a ming date and application number of said application	
784 00 00	Ta I	
2015 0527	ATT	
Witness  Malin Systander  Typed Name of Witness	Jonas Magnusson	
x *Total of 7 forms are submitted.		

former PTO/SB/15 (8-00) Modified LDLK&M

A A A A A A A B A B A B A B A B A B A B	Docket Number (Optional)	
ASSIGNMENT OF UTILITY APPLICATION	SUNDS 3.3-174 (E)	
Klingsta 222, S-855 90 Sundsvall, SWEDEN hereafter referred to as assignor, have with others invented ce AN APPARATUS FOR WASHING AND/OR DEWAT  X for which an application for a United States Letters Parapplication Number 14/650,781  for which an application for a United States Letters Parapplication and International Application was filed or PCT/SE2013/051570, designating the United And Whereas, Valmet AB	sunds 3.3-174 (E)  of  rtain new and useful improvements in  ERNG OF CELLULOSE PULP  atent was filed on June 9, 2015  ent was executed by me on  December 19, 2013 as  ad States.	
a corporation of Finland herein referred to as "assignee" whos	e mailing address is	
Valmet AB, SE-851 94 Sundsvall, SWEDEN	camo:	
is desirous of acquiring the entire right, title and interest in the	same,	
NOW, THEREFORE, in consideration of the sum of <u>one</u> dollar (\$ <u>1.00</u> ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignse of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses		
And I do hereby authorize my attorneys to insert on this deed	the filing date and application number of said application	
when known.		
2015-06-27		
Date Withess  William Surfainder  Typed Name of Witness	Hans Lövgren	
x *Total of 7 forms are submitted.		