

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark OfficeRECORDATION FORM COVER SHEET  
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

## 1. Name of conveying party(ies)/Execution Date(s):

ERIC ENQVIST (08/20/2007), PANU TIKKA  
(08/18/2007), LEOPOLD HEINRICH  
(08/30/2007), AND MATTI LUHTANEN  
(08/13/2007)

Execution Date(s): in parentheses after inventor name

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

## 2. Name and address of receiving party(ies)

Name: METSO PAPER, INC.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

FABIANINKATU 9 A

City: HELSINKI

State: \_\_\_\_\_

Country: Finland Zip: FIN-00130Additional name(s) & address(es) attached: ☐ Yes ☒ No

## 4. Application or patent number(s):

A. Patent Application No (s)  
11/886,702☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address to whom correspondence concerning document should be mailed:

Name: Arnold H. Krumholz  
LERNER, DAVID, LITTENBERG,  
KRUMHOLZ & MENTLIK, LLP

Internal Address: Atty. Dkt.:

Street Address: 600 South Avenue WestCity: Westfield  
State: NJ Zip: 07090  
Phone Number: (908) 518-6304  
Fax Number: (908) 654-0415  
Email Address: akrumholz@ldlkm.com

## 6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

## 8. Payment information

- a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
b. Deposit Account Number 12-1095  
Authorized User Name Arnold H. Krumholz

## 9. Signature:



Signature

October 22, 2007

Date

Arnold H. Krumholz - 25,428  
Name of Person SigningTotal number of pages including cover  
sheet, attachments, and documents:

5

CH \$40.00 121095 11886702

former PTO/SB/15 (8-00) Modified LDLKM

<h2 style="margin: 0;">ASSIGNMENT OF UTILITY APPLICATION</h2>	Docket Number (Optional)
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Whereas, I, Eric Enqvist of Lappviksgatan 29 A 16, FI-00180 Helsingfors FINLAND hereafter referred to as assignor, have with others invented certain new and useful improvements in **PRODUCTION OF PULP USING A GASEOUS ORGANIC AGENT AS HEATING AND REACTION-ACCELERATING MEDIA**

☐ for which an application for a United States Letters Patent was filed on \_\_\_\_\_  
 Application Number \_\_\_\_\_

☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_,

☒ for which an International Application was filed on February 10, 2006, as PCT/FI2006/050059, designating the United States.

And

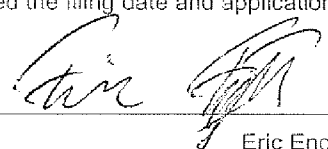
Whereas, Metso Paper, Inc. a corporation of Finland herein referred to as "assignee" whose mailing address is Fabianinkatu 9 A; FI-00130 Helsinki; FINLAND is desirous of acquiring the entire right, title and interest in the same;

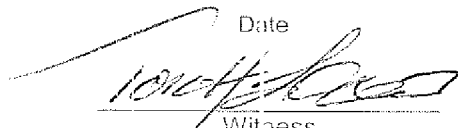
NOW, THEREFORE, in consideration of the sum of one dollars (\$ 1.00 ), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries 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 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 filing date and application number of said application when known.

20.3 2007

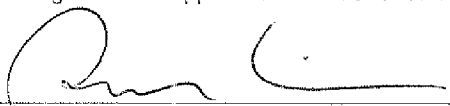
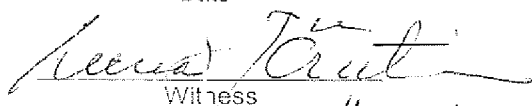
Date

  
 Eric Enqvist

  
 Witness  
Torolf Laxén  
 Typed Name of Witness

☒ \*Total of 4 forms are submitted.

former PTO/SE/15 (3-00) Modified LDLK&amp;M

<b>ASSIGNMENT OF UTILITY APPLICATION</b>	Docket Number (Optional)
<p>Whereas, I, <u>Panu Tikka</u> of  <u>Mäenrinne 26, FI-02160 Espoo FINLAND</u>          hereafter referred to as assignor, have with others invented certain new and useful improvements in  <b>PRODUCTION OF PULP USING A GASEOUS ORGANIC AGENT AS HEATING AND          REACTION-ACCELERATING MEDIA</b></p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was filed on _____          Application Number _____</p> <p><input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____</p> <p><input checked="" type="checkbox"/> for which an International Application was filed on <u>February 10, 2006</u>, as  <u>PCT/FI2006/050059</u>, designating the United States.</p> <p>And</p> <p>Whereas, <u>Metso Paper, Inc.</u>          a corporation of <u>Finland</u> herein referred to as "assignee" whose mailing address is  <u>Fabianinkatu 9 A; FI-00130 Helsinki; FINLAND</u>          is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <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 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.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application          when known.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;"> <p><u>AUGUST 18, 2007</u>              Date</p> </div> <div style="text-align: center;"> <p>              Panu Tikka</p> </div> </div> <div style="display: flex; justify-content: center; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;"> <p>              Witness</p> <p><u>Leena Järvi</u>              Typed Name of Witness</p> </div> </div>	

☒ \*Total of 4 forms are submitted.

former PTO/SB/15 (8-00) Modified LDLKM

<h2 style="margin: 0;">ASSIGNMENT OF UTILITY APPLICATION</h2>	Docket Number (Optional)
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Whereas, I, Leopold Heinrich of Göstingerstrasse 27, A-8020 Graz AUSTRIA hereafter referred to as assignor, have with others invented certain new and useful improvements in **PRODUCTION OF PULP USING A GASEOUS ORGANIC AGENT AS HEATING AND REACTION-ACCELERATING MEDIA**

☐ for which an application for a United States Letters Patent was filed on \_\_\_\_\_ Application Number \_\_\_\_\_  
☐ for which an application for a United States Letters Patent was executed by me on \_\_\_\_\_  
☒ for which an International Application was filed on February 10, 2006, as PCT/FI2006/050059, designating the United States.

And

Whereas, Metso Paper, Inc. a corporation of Finland herein referred to as "assignee" whose mailing address is Fabianinkatu 9 A; FI-00130 Helsinki; FINLAND is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollars (\$ 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 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 filing date and application number of said application when known.

August 30, 2006

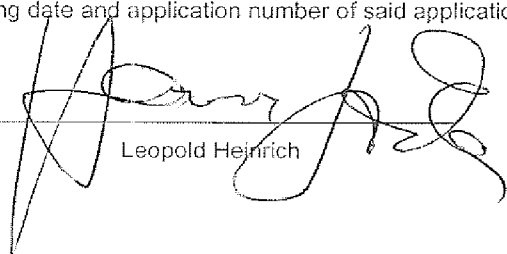
Date

Si Reader

Witness

STEPHEN READER

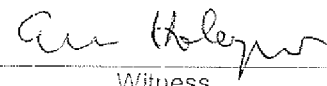
Typed Name of Witness



Leopold Heinrich

☒ \*Total of 4 forms are submitted.

former PTO/SB/15 (8-00) Modified LDLKM

<h2 style="margin: 0;">ASSIGNMENT OF UTILITY APPLICATION</h2>	Pocket Number (Optional)
<p>Whereas, I, <u>Matti Luhtanen</u> of <u>Spinkitie 25 FI-28300 Pori FINLAND</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in <u>PRODUCTION OF FULP USING A GASEOUS ORGANIC AGENT AS HEATING AND REACTION-ACCELERATING MEDIA</u></p> <p> <input type="checkbox"/> for which an application for a United States Letters Patent was filed on _____ Application Number _____         </p> <p> <input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____         </p> <p> <input checked="" type="checkbox"/> for which an International Application was filed on <u>February 10, 2006</u>, as <u>PCT/FI2006/050059</u>, designating the United States.         </p> <p>And</p> <p>Whereas, <u>Metso Paper, Inc.</u> a corporation of <u>Finland</u> herein referred to as "assignee" whose mailing address is <u>Fabianinkatu 9 A; FI-00130 Helsinki; FINLAND</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <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 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.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;"> <u>13.8.2007</u> Date         </div> <div style="text-align: center;">  Matti Luhtanen         </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="text-align: center;">  Witness         </div> <div style="text-align: center;"> <u>EERO HOKAJÄRVI</u> Typed Name of Witness         </div> </div>	
<div style="border: 1px solid black; padding: 5px; display: flex; align-items: center;"> <input checked="" type="checkbox"/> *Total of <u>4</u> forms are submitted.         </div>	

PATENT

RECORDED: 10/22/2007

REEL: 020001 FRAME: 0042