

05-20-2003



5-19.03

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To the Honorable Commissioner of Patents and Trademarks, please record the attached original documents or copy thereof.

1. Names of conveying party(ies):
Beloit Technologies, Inc.

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: August 16, 2001

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

Name: Metso Paper, Inc.

Internal Address: _____

Street Address: Fabianinkatu 9 ACity: Helsinki Country: FinlandZip: FIN-00130Additional name(s) & address(es) attached? ☒ Yes ☐ No

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

10/261,186

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Patrick J. G. StiennonInternal Address: Suite 400Street Address: 740 Regent StreetP.O. Box 1507City: Madison State: WI ZIP: 53701-1507

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41).....\$40.00

- ☒ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number: 15-0660

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patrick J. G. Stiennon, Reg. No. 34934

Name of person signing:

Signature:

May 15, 2003

Date:

05/20/2003 T01A21 00000022 10261186

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40.00

Total number of pages comprising cover sheet

2

**ATTACHMENT FOR RECORDATION FORM COVER SHEET
PATENTS ONLY (Form PTO-1595)**

1. Name of conveying party(ies):

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Mitsubishi Heavy Industries, Ltd.

Internal Address: _____

Street Address: 16-5 Konan 2-chome, Minato-ku

City: Tokyo Country: Japan ZIP: 108-8215

Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached?

☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

ASSIGNMENT

The undersigned, **Beloit Technologies, Inc.**, a corporation of Delaware, having a place of business at 2751 Centerville Road, Suite 342, Wilmington, Delaware 19808, hereby declares that the following patent applications and patents were applied for in the United States Patent Office, said patent applications and patents being identified in the attached Schedule by patent or serial number, filing or issue date, and title.


Whereas, **Metso Paper Inc.**, a corporation of Finland, having a place of business at Fabianinkatu 9 A, FIN-00130 Helsinki, Finland, and **Mitsubishi Heavy Industries, Ltd.**, a corporation of Japan having a place of business at 51, Marunouchi 2 chome, Chiyoda-KU, Tokyo, Japan, are desirous of obtaining jointly and equally, the entire right, title and interest in and to said patent applications and patents in United States.

NOW THEREFORE, in consideration of U.S. \$100 and other good and valuable consideration paid to said **Beloit Technologies, Inc.**, receipt of which is hereby acknowledged, **Beloit Technologies, Inc.** does hereby sell, assign, transfer and set over unto the said **Metso Paper Inc.** and **Mitsubishi Heavy Industries, Ltd.**, as joint and equal owners, their successors, assigns and legal representatives, the entire right, title and interest in and to those patent applications and patents on the inventions covered by said patent applications and patents set forth in said attached Schedule presently owned by said **Beloit Technologies, Inc.**

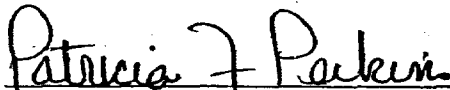
ASSIGNOR:

BELOIT TECHNOLOGIES, INC.

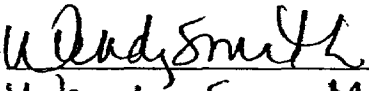
Date: AUGUST 16, 2001
Month/Day/Year

Signature: 
Name: DAVID J. BOLAND
Title: AUTHORIZED REPRESENTATIVE

Date: August 16, 2001
Month/Day/Year

Witness: 
Name: PATRICIA F. PERKINS
Title: CPA


Date: August 16, 2001
Month/Day/Year

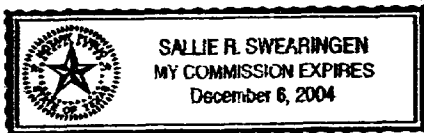
Witness: 
Name: Wendy Smith
Title: _____

State of Texas
County of Dallas

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)ss.
)

Before me this 16th day of August, 2001, personally appeared David J. Boland to me personally known to be the person who is described in and who executed the above instrument, and acknowledged to me that he executed the same of his own free will for the purpose therein set forth.


Notary Public



**SCHEDULE OF US PATENTS BEING ASSIGNED FROM
BELOIT TECHNOLOGIES INC. TO METSO PAPER INC. & MHI, LTD. JOINTLY**

Serial No.	Filing Date	Patent No.	Issue Date	Title
540,420	6/19/1990	D320,105	9/17/1991	Web Drying Section
540,075	6/19/1990	D321,269	10/29/1991	Web Drying Section
784,811	10/29/1991	D333,710	3/2/1993	Web Drying Section
797,597	11/25/1991	D340,325	10/12/1993	Web Drying Section
154,946	5/30/1980	4,440,214	4/3/1984	Heat Transfer Roll and Method
386,743	6/9/1982	4,476,637	10/16/1984	Sheet Paper Drying Cylinder for a Continuous Papermaking Machine
409,154	8/18/1982	4,483,083	11/20/1984	Drying and Runnability for High Speed Paper Machines
428,241	9/29/1982	4,483,745	11/20/1984	Method and Apparatus of Sheet Transfer Using a Non-Porous Smooth Surface Belt
426,609	9/29/1982	4,485,567	12/4/1984	Dryer Felt Run
403,230	7/29/1982	4,486,962	12/11/1984	Magnetic Spoiler Bar Apparatus
493,799	5/12/1983	4,495,711	1/29/1985	Dryer Section Drive Arrangement For Paper Making Machines
392,720	6/28/1982	4,495,712	1/29/1985	Paper Making Machine Dryer Section Drive
430,948	9/30/1982	4,498,249	2/12/1985	Dryer Stationary Syphon Adjustment Mechanism
543,167	10/19/1983	4,501,197	2/26/1985	Supercalender Edge Nip Relieving

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Serial No.	Filing Date	Patent No.	Issue Date	Title
447,701	12/7/1982	4,510,698	4/16/1985	Dryer Felt Run
573,109	1/23/1984	4,510,859	4/16/1985	Supercalender Nip Relieving Arrangement
556,896	12/1/1983	4,517,056	5/14/1985	Slice Lip Adjustment
558,837	12/7/1983	4,536,255	8/20/1985	Extended Nip Press
593,258	3/26/1984	4,538,360	9/3/1985	Steam Heated Dryer Drum Having Stationary Siphon and Spoiler Bars
575,655	1/31/1984	4,539,072	9/3/1985	Curl Neutralizer
540,314	10/11/1983	4,544,449	10/1/1985	Apparatus for de-watering Fibrous Suspensions
	8/22/1984	4,556,451	12/3/1985	Method of and Apparatus for Substantially Equal Compacting and Dewatering of Both Faces of Freshly Felted Paper Web
628,031	7/5/1984	4,559,105	12/17/1985	Positive Lock Foil Blades
588,361	3/12/1984	4,561,379	12/31/1985	Paper Forming
593,257	3/26/1984	4,561,939	12/31/1985	Extended Nip Press Arrangement
598,968	4/11/1984	4,566,945	1/28/1986	Headbox Trailing Element
774,862	9/11/1985	4,617,091	9/11/1985	Headbox Trailing Element
742,259	6/7/1985	4,637,434	1/20/1987	Three-Way Valve for an Attenuator

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Serial No.	Filing Date	Patent No.	Issue Date	Title
847,909	3/14/1986	4,662,398	5/5/1987	Control Valve for a Steam Box
857,747	4/8/1986	4,669,198	6/2/1987	Blow Box for a Dryer
852,452	4/7/1986	4,671,546	6/9/1987	Sealing Device for Securing Device Extending through Fluid Container
801,317	11/25/1985	4,673,461	6/16/1987	Enclosed Shoe Press with Flexible End Connections for its Annular Belt
657,738	10/4/1984	4,679,287	7/14/1987	Heated Variable Crown Roll
724,184	3/10/1987	4,704,192	11/3/1987	Press Apparatus for Pressing a Moving Web
936,851	12/2/1986	4,728,396	3/1/1988	Method of Operating and Threading a Coater
847,653	3/17/1986	4,733,962	3/29/1988	Jet Velocity Measuring Apparatus
881,999	7/3/1986	4,734,164	3/29/1988	Horizontal Web-Forming Apparatus with Curved Nose Forming Board
895,885	8/12/1986	4,738,752	4/19/1988	Heated Extended Nip Press Apparatus
076,826	7/23/1987	4,741,805	5/3/1988	Guiding Apparatus for Guiding an Extended Nip Press Blanket
114,334	10/30/1987	4,750,523	6/14/1988	Active Attenuator and Method
000,603	1/5/1987	4,761,309	8/2/1988	Coating Apparatus and Method
173,006	3/28/1988	4,790,909	12/13/1988	Two-Wire Paper Forming Apparatus

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Serial No.	Filing Date	Patent No.	Issue Date	Title
776,828	7/23/1987	4,793,899	12/27/1988	Coating Press Apparatus Using Short Dwell Coaters
126,547	11/30/1987	4,807,371	2/28/1989	Apparatus for Maintaining the Edges of a Web in Conformity with a Dryer Felt
789,473	8/26/1987	4,808,445	2/28/1989	Coating Apparatus and Method
888,021	7/18/1986	4,815,220	3/28/1989	Web Transfer Apparatus
117,052	11/5/1987	4,821,384	4/18/1989	Self-Loading Controlled Deflection Roll
784,714	8/10/1987	4,823,688	4/25/1989	Calendering Apparatus Using Inductive Heating For Hot-Calendering a Paper Web
788,458	8/24/1987	4,830,709	5/16/1989	Multi-Ply Web Forming Apparatus and Method
110,405	10/19/1987	4,835,881	6/6/1989	Dryer Section Apparatus
748,500	4/27/1987	4,836,894	6/6/1989	Profiling Air/Steam System for Paper-Making Machines
87,555	8/20/1987	4,837,907	6/13/1989	Self-Loading Controlled Deflection Roll
871,393	4/21/1986	4,850,121	7/25/1989	Dryer Felt Run
256,016	10/11/1988	4,852,229	8/1/1989	Self-Loading Controlled Deflection Roll
744,390	4/30/1987	4,854,053	8/8/1989	Transfer Apparatus
935,424	11/26/1986	4,860,686	8/29/1989	Coating Width Regulating Apparatus

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Serial No.	Filing Date	Patent No.	Issue Date	Title
253,283	10/4/1988	4,874,470	10/17/1989	Papermaking Press Section and Transfer Arrangement to Dryer Section
249,798	9/27/1988	4,875,976	10/24/1989	Transfer Apparatus From Press Section to Drying Section
223,186	7/22/1988	4,876,803	10/31/1989	Dryer Apparatus for Drying a Web
772,082	7/10/1987	4,878,299	11/7/1989	Insulating Apparatus for Thermally Insulating a Dryer Head
245,481	9/12/1988	4,879,001	11/7/1989	Twin Wire Former with Roll Press Followed by Extended Nip Press
784,655	8/11/1987	4,880,502	11/14/1989	Press Drying Apparatus with Deflection Control and Blow Box Cooling
754,461	5/26/1987	4,882,854	11/28/1989	Guide Roll Apparatus For a Dryer Of a Paper Machine Drying Section
280,629	12/6/1988	4,891,874	1/9/1990	Self-Loading Controlled Deflection Roll
256,347	10/11/1988	4,891,891	1/9/1990	Dryer Section Apparatus and Method
127,525	12/2/1987	4,894,120	1/16/1990	Twin Wire Forming Apparatus
308,921	2/13/1989	4,897,905	2/6/1990	Controlled Deflection Roll Using Inert Gasses and Independent Lubrication System
339,538	4/17/1989	4,904,344	2/27/1990	Automatic Web Threading Apparatus and Method
244,774	9/14/1998	4,905,379	3/6/1990	Intermediate Vacuum Roll for Dryer
235,394	8/23/1988	4,918,836	4/24/1990	Tail Cutter Apparatus and Method

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Serial No.	Filing Date	Patent No.	Issue Date	Title
411,804	9/25/1989	4,921,575	5/1/1990	Couch Press Transfer Apparatus
401,569	2/13/1987	4,934,067	6/19/1990	Apparatus for Drying a Web
385,530	7/26/1989	4,941,950	7/17/1990	Headbox with Grooved Trailing Element
197,537	5/23/1988	4,943,351	7/24/1990	Transfer Apparatus and Method
230,627	8/10/1988	4,945,655	8/7/1990	Apparatus for Cutting a Tail from a Web
453,516	12/20/1989	4,949,475	8/21/1990	Temperature Compensated Ventilating Roll
362,184	6/6/1989	4,949,634	8/21/1990	Press Apparatus
416,297	10/2/1989	4,969,360	11/13/1990	System for Measuring the Cyclic Speed and Rotational Position of a Traveling Looped Belt
417,978	10/5/1989	4,970,805	11/20/1990	Transfer Apparatus for Transferring a Tail of a Web
385,622	7/26/1989	4,973,441	11/27/1990	Method of Manufacturing a Compressibility Gradient in Paper
429,592	10/31/1989	4,974,340	12/4/1990	Vacuum Guide Roll Apparatus
376,330	7/6/1989	4,975,152	12/4/1990	Enclosed Extended Nip Press Apparatus with Inflatable Seals and Barbs
243,742	9/9/1988	4,980,979	1/1/1991	Vacuum Roll Transfer Apparatus
541,578	6/21/1990	5,010,633	4/30/1991	Controlled Deflection Roll with Heat Barrier

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Serial No.	Filing Date	Patent No.	Issue Date	Title
429,260	10/30/1989	5,010,840	4/30/1991	Short Dwell Coater Apparatus
602,602	10/24/1990	5,011,578	4/30/1991	Extended Nip Press Apparatus with Blanket Edge Seals
433,937	11/9/1989	5,013,406	5/7/1991	Trailing Element Device for a Headbox
429,536	10/31/1989	5,015,336	5/14/1991	Felt Turning Suction Roll
437,416	11/16/1989	5,015,500	5/14/1991	Roll Coater with Perforated Deckles
338,685	4/17/1989	5,018,402	5/28/1991	Planetary Gear Drive for Controlled Deflection Rolls
525,380	5/17/1990	5,020,238	6/4/1991	Vacuum Guide Roll Apparatus
012,284	11/9/1990	5,031,338	7/16/1991	Vacuum Roll Transfer Apparatus
483,858	2/23/1990	5,034,098	7/23/1991	Method of Forming a Paper Web
605,639	10/29/1990	5,037,509	8/6/1991	Apparatus for Transferring a Threading Tail of a Web
579,745	9/7/1990	5,047,122	9/10/1991	Method For Heated Extended Nip Pressing
541,678	6/21/1990	5,060,357	10/29/1991	Self-Loading Controlled Deflection Roll
436,577	11/15/1989	5,064,502	11/12/1991	Multi-Ply Web Former

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Serial No.	Filing Date	Patent No.	Issue Date	Title
485,681	2/27/1990	5,065,529	11/19/1991	Apparatus for Drying a Web
525,504	5/17/1990	5,077,095	12/31/1991	Flexible Blade Coating Arrangement and Method with Compound Blade Loading
611,630	11/13/1990	5,084,138	1/28/1992	Deflection Compensated Forming Wire Turning Bar
584,463	9/18/90	5,087,325	2/11/1992	Coating Dispenser with Removable Valve Tip and Valve Seat
204,438	6/9/1988	5,092,961	3/3/1992	Apparatus for Cleaning a Porous Cover
431,961	11/3/1989	5,101,577	4/7/1992	Web Transfer Apparatus
657,573	2/19/1991	5,109,792	5/5/1992	Coating Head for Applying a Coating Suspension Layer on a Paper Sheet
650,348	2/4/1991	5,111,563	5/12/1992	Self-Loading Controlled Deflection Roll
705,484	5/24/1991	5,120,399	6/9/1992	Press Section with Inverted Extended Nip Press and Roll Press
730,805	3/27/1987	5,127,141	7/7/1992	Self-Loading Controlled Deflection Roll
740,677	8/6/1991	5,131,983	7/21/1992	Heated Press Apparatus with Elastomeric Covered Rolls
784,289	10/29/1991	5,133,996	7/28/1992	Method and Apparatus for Coating a Web
391,347	8/9/1989	5,140,897	8/25/1992	Extended Nip Press Apparatus
792,108	11/14/1991	5,144,758	9/8/1992	Apparatus for Drying a Web

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Serial No.	Filing Date	Patent No.	Issue Date	Title
818,577	1/9/1992	5,146,838	9/15/1992	Piston Apparatus for Use in Web Pressing Components in Papermaking Machinery
784,610	8/10/1987	5,149,402	9/22/1992	Headbox Having a Primary Stock Flow and a Laterally Injected Secondary Flow
660,466	3/18/1991	5,152,078	10/6/1992	Vacuum Roll Transfer Apparatus
403,560	10/6/1992	5,152,874	9/6/1989	Apparatus and Method for Removing Fluid From a Fibrous Web
801,283	12/2/1991	5,160,583	11/3/1992	Controlled Jet Injection Apparatus for a Papermaking Machine Headbox
707,429	5/28/1991	5,160,584	11/3/1992	High Consistency Sheet Former
790,279	11/7/1991	5,167,768	12/1/1992	Wide Nip Web Press and Method Using a Press Shoe with Two Pivots
429,730	10/26/1989	5,175,945	1/5/1993	Apparatus for Drying a Web
772,521	10/7/1991	5,183,537	2/2/1993	Headbox Tube Bank Apparatus and Method of Directing Flow Therethrough
791,722	11/14/1991	5,192,591	3/9/1993	Short Dwell Coater Apparatus
792,558	11/15/1991	5,193,258	3/16/1993	Self-Loading Controlled Deflection Roll
784,288	10/29/1991	5,196,091	3/23/1993	Headbox Apparatus with Stock Dilution Conduits for Basis Weight Control
688,002	4/19/1991	5,199,991	4/6/1993	Short Dwell Coater Apparatus
713,186	6/10/1991	5,201,999	4/13/1993	Twin Wire Forming Apparatus

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Serial No.	Filing Date	Patent No.	Issue Date	Title
768,495	9/30/1991	5,202,000	4/13/1993	Saveall Apparatus for a Twin-Wire Former
801,284	12/2/1991	5,225,042	7/6/1993	Twin Wire Paper Forming Section with Heated Air Pressure Domes
606,654	10/31/1990	5,241,760	9/7/1993	Dryer Apparatus
977,364	11/17/1992	5,242,361	9/7/1993	Roller Mechanism for Axially Locating the Shell of a Self-Loading Controlled Deflection Roll
867,722	4/9/1992	5,249,372	10/5/1993	Apparatus for Drying a Web
946,992	9/17/1992	5,250,154	10/5/1993	Quick-Release Post for a Papermaking Machine Press Frame
873,420	4/24/1992	5,269,074	12/14/1993	Single Tier Dryer Section for Curl Control
530,386	5/30/1990	5,279,049	1/18/94	Process for the Restrained Drying of a Paper Web
871,319	4/20/1992	5,281,308	1/25/1994	Pick-Up Roll Apparatus
873,420	4/24/1992	5,283,960	2/8/1994	Single Tier Dryer Section for Curl Control
939,183	9/2/1992	5,286,946	2/15/1994	Method and Apparatus for Securing an End of a Headbox Flow Tube
888,954	5/26/1992	5,289,007	2/22/1994	Sheet Break Detector Apparatus
932,473	8/20/1992	5,298,125	3/29/1994	Fluid Jet Supported Headbox
905,256	6/26/1992	5,328,569	7/12/1994	Curved Suction Box Apparatus in a Papermaking Machine Press Section

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Serial No.	Filing Date	Patent No.	Issue Date	Title
374,527	6/11/1993	5,329,849	7/19/1994	Self-Loading Controlled Crown Roll
060,717	5/6/1993	5,370,327	12/6/1994	Method and Apparatus for Reeling A Wound Web Roll
064,840	5/19/1993	5,404,653	4/11/1995	Apparatus for Drying a Web
107,406	8/16/1993	5,427,654	6/27/1995	Multi-Ply Web Forming Apparatus
195,522	2/14/1994	5,439,559	8/8/1995	Heavy-Weight High-Temperature Pressing Apparatus
198,803	2/17/1994	5,441,604	8/15/1995	Extended Nip Press Apparatus
960,378	1/4/1993	5,468,348	11/21/1995	Multi-Ply Web Former and Method
290,317	8/15/1994	5,474,656	12/12/1995	Equal Lift Self-Loading Controlled Deflection Roll and Method for Operating Same
171,306	12/21/1993	5,480,486	1/2/1996	Continuous Adjustable Backing Bar For Profiling Coater Blade
381,162	1/31/1995	5,493,790	2/27/1996	Sheet Transfer Apparatus
379,372	1/27/1995	5,495,679	3/5/1996	Papermaking Dryer with Multi-Roll Vacuum Chamber
100,735	8/2/1993	5,507,104	4/16/1996	Web Drying Apparatus
248,272	5/24/1994	5,507,917	4/16/1996	Doctor for Creping Tissue

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Serial No.	Filing Date	Patent No.	Issue Date	Title
164,515	12/8/1993	5,512,139	4/30/1996	Method and Device for Making Tissue
192,219	2/4/1994	5,517,765	5/21/1996	Dryer Section Apparatus
313,530	2/4/1993	5,520,354	5/28/1996	Reel for a Papermaking Machine
379,386	1/27/1995	5,522,151	6/4/1996	Single Tier Dryer Section with Dual Reversing Rolls
293,978	8/22/1994	5,534,117	7/9/1996	Position Control For Self-Loading Roll
111,368	8/24/1993	5,538,557	7/23/1996	Short Dwell Coater Apparatus
119,927	9/10/1993	5,542,192	8/6/1996	Vacuum Roll Apparatus
873,420	4/24/1992	5,542,193	8/6/1996	Dryer Group for Curl Control
292,594	8/13/1996	5,544,841	8/18/1994	Method and Apparatus for Reeling a Traveling Web Into a Wound Web Roll
155,990	11/22/1993	5,546,675	8/20/1996	Single Tier Drying Section Apparatus
451,389	5/26/1995	5,556,514	9/17/1996	Extended Nip Press Apparatus with Geared Blanket Edge Clamp
339,046	11/14/1994	5,560,566	10/1/1996	Winder with Elevated Spool Support Rail
412,631	3/29/1995	5,560,807	10/1/1996	Headbox Additive Injection System
261,480	6/17/1994	5,567,273	10/22/1996	Method of Reducing Surface Irregularities in Paper Machine Headbox Components

**SCHEDULE OF US PATENTS BEING ASSIGNED FROM
BELOIT TECHNOLOGIES INC. TO METSO PAPER INC. & MHI, LTD. JOINTLY**

Serial No.	Filing Date	Patent No.	Issue Date	Title
373,661	1/17/1995	5,573,593	11/12/1996	Coating Apparatus For Selectively Coating Either or Both Sides of a Traveling Paper Web
506,408	7/24/1995	5,599,392	2/4/1997	Rod holder with separate Positionable Contact Elements For Rod Metering
527,048	9/12/1995	5,600,898	2/11/1997	Curl Control by Dryer Aircaps in Top Felted Dryer Section
889,882	5/29/1992	5,611,500	3/18/1997	Reel Wound Roll Load Sensing Arrangement
443,126	5/17/1995	5,611,860	3/18/1997	Hydrostatic Shear Inducing Short Dwell Coater
530,935	9/19/1995	5,622,601	4/22/1997	Method and Apparatus For Effecting a Clipped Tail in a Traveling Paper Web
418,145	4/5/1995	5,628,124	5/13/1997	Apparatus for Drying a Web
631,576	04/12/1996	5,636,448	06/10/1997	Web Drying Apparatus
119,927	9/10/1993	5,640,782	6/24/1997	Vacuum Roll Apparatus
613,591	11/15/1990	5,641,387	6/24/1997	On-Line Coater Apparatus
659,815	6/7/1996	5,643,416	7/1/1997	Extended Nip Press with Oscillating Blanket for Extended Wear
595,000	1/31/1996	5,650,048	7/22/1997	Extended Nip Press with Hydraulic Pressure Equalizer Valve
541,447	10/10/1995	5,664,737	9/9/1997	Centerwind Assist For a Paper Winder System

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Serial No.	Filing Date	Patent No.	Issue Date	Title
518,093	8/22/1995	5,665,163	9/9/1997	Film Applicator with Entrained Air Removal and Surface Control
574,824	12/19/1995	5,673,870	10/7/1997	Method and Apparatus for Reeling a Traveling Paper Web
527,048	9/12/1995	5,678,321	10/21/1997	Air Caps For Two Tier Double Felted Dryer
563,127	11/29/1995	5,683,510	11/4/1997	Coater with Air Collector
733,045	10/16/1996	5,700,357	12/23/1997	Mechanical Blanket Clamp in Rotating Head Assembly
611,337	3/8/1996	5,720,816	2/24/1998	Reverse Feed Film Applicator
691,044	8/1/1996	5,733,415	3/31/1998	Closed Shoe Press Head Indexing System
537,598	10/2/1995	5,735,957	4/7/1998	Dual Chamber Film Applicator with In-Pond Overflow
596,903	3/12/1996	5,738,007	4/14/1998	High Nip Load Calender
787,346	1/27/1997	5,762,759	6/9/1998	Tail Threading System for a Papermaking Machine
692,025	8/1/1996	5,766,422	6/16/1998	Lightweight High Temperature Pressing
643,557	5/6/1996	5,783,045	7/21/1998	Pulp and Linerboard Former with Improved Dewatering

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Serial No.	Filing Date	Patent No.	Issue Date	Title
542,368	10/12/1995	5,785,633	7/28/1998	Composite Roll Shell
291,382	8/16/1994	5,788,619	8/4/1998	Hydrostatic Self-Loading Controlled Deflection Roll
761,183	12/3/1996	5,792,322	8/11/1998	Flow Splitting Device for Web Profile Control Stock Dilution System
726,308	10/2/1996	5,797,826	8/25/1998	Hydrostatic Shoe For Controlled Crown Rolls
880,659	6/23/1997	5,820,732	10/13/1998	Cleaning Apparatus For Cleaning a Forming Wire
857,290	4/8/1998	5,820,734	10/13/1998	Trailing Element for a Headbox
669,688	6/24/1996	5,824,369	10/20/1998	Method and Apparatus for Coating a Traveling Paper Web
732,907	09/05/1996	5,832,625	11/10/1998	Apparatus for drying a web
786,626	1/21/1997	5,833,808	11/10/1998	Method of Controlling Curl Employing Inline Headbox Edge Flow Control Valve
799,126	2/13/1997	5,843,529	12/1/1998	Pre-Metering Rod
719,498	9/25/1996	5,873,180	2/23/1999	Papermaking Dryer Section with Partitioned Vacuum Box for Threading
955,541	10/22/1997	5,881,472	3/16/1999	Ventilator Apparatus For Inhibiting Flutter in a Web Dryer
518,093	8/22/1995	5,882,406	3/16/1999	Film Applicator with Adjustable Dynamic Extraction Flow Regulator

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Serial No.	Filing Date	Patent No.	Issue Date	Title
661,274	6/10/1996	5,882,482	3/16/1999	Convergent Flow Headbox
895,224	6/10/1998	5,882,483	3/16/1999	Extended Nip Press Apparatus
873,420	4/24/1992	5,884,415	3/23/1999	Paper Making Machine Providing Curl Control
899,927	7/24/1997	5,885,201	3/23/1999	Non-Self Loading Controlled Deflection Roll
789,971	1/31/1997	5,887,358	3/30/1999	Pocket Ventilation and Sheet Support System in a Papermaking Machine Dryer Section
724,874	10/3/1996	5,888,353	3/30/1999	Flatsided Parabolic Header for Headboxes
597,521	2/2/1996	5,891,308	4/6/1999	Method of Pressing a Paper Web of Tropical Hardwood Fibers
920,157	8/26/1997	5,891,309	4/6/1999	Web Stabilizing Device
908,853	8/8/1997	5,897,747	4/27/1999	Machine Direction Profiling of Extended Nip Press Shoe
691,044	8/1/1996	5,900,118	5/4/1999	Closed Shoe Press Head Indexing System
955,011	10/20/1997	5,919,338	7/6/1999	Cleaning Apparatus for a Papermachine Forming Wire
787,344	1/27/1997	5,921,000	7/13/1999	Alternating Top and Bottom Felted Dryers Connected Without Open Draw

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Serial No.	Filing Date	Patent No.	Issue Date	Title
949,628	10/14/1997	5,928,067	7/27/1999	Headbox Apron Finishing and Lapping Device
911,228	8/15/1997	5,931,770	8/3/1999	Controlled deflection roll bearing pad
657,754	5/30/1996	5,933,977	8/10/1999	Curl Control with Dryer Aircaps
961,615	10/31/1997	5,933,979	8/10/1999	Restraint Dryer for the Drying End of a Papermaking Machine and a Method thereof
228,150	1/11/1999	5,933,980	8/10/1999	Method for Controlling Curl with Dryer Aircaps
911,447	8/14/1997	5,944,959	8/31/1999	Integral Outboard Bearing Support For Doctor Oscillator
878,611	6/19/1997	5,951,824	9/14/1999	Compliant hydrodynamic/hydrostatic shoe for papermaking press
882,092	6/25/1997	5,958,190	9/28/1999	Cleaning Apparatus for Cleaning a Forming Wire
915,027	8/20/1997	5,980,388	11/9/1999	Joint Assembly for Linking End-Aligned Shaft Segments
980,533	12/1/1997	5,980,634	11/9/1999	Coating Applicator with Blade Shaping
048,440	3/26/1998	5,980,693	11/9/1999	Extended Nip Press Apparatus
980,191	11/26/1997	5,984,847	11/16/1999	Self Loading Controlled Deflection Roll
021,803	2/11/1998	5,992,040	11/30/1999	Drying Section Apparatus
028,627	2/24/1998	6,004,431	12/21/1999	Headbox with Active Local Flow Control

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Serial No.	Filing Date	Patent No.	Issue Date	Title
014,751	1/28/1998	6,004,432	12/21/1999	Sheet Turn with Vectored Air Supply
050,495	3/30/1998	6,024,797	2/15/00	Method and apparatus for controlling coat-weight profile
156,108	9/18/1998	6,032,385	3/7/00	Method for pocket ventilation and sheet support system in a papermaking machine dryer section
110,585	7/6/1998	6,033,527	3/7/00	Paper machine edge fiber alignment control by angled headbox sides
081,622	5/19/1998	6,039,843	3/21/00	Loaded clamped foil blade for use in a web-forming section of a papermaking machine
089,690	6/3/1998	6,045,658	4/4/00	An extended nip press apparatus
966,830	11/10/1997	6,049,998	4/18/00	High temperature pressing followed by high intensity drying
871,573	6/9/1997	6,049,999	4/18/00	Machine and Process for the Restrained Drying of a Paper Web
128,486	8/4/1998	6,085,646	7/11/2000	Multiple Nip Calendar for a Paper Making Machine
049,766	3/27/1998	6,099,691	8/8/2000	Apparatus for Cleaning a Papermaking Machine Forming Fabric
007,659	1/15/98	6,106,672	8/22/2000	Adjustable Height Forming Blade Apparatus
060,591	4/15/98	6,117,271	9/12/2000	Slice Lip Apparatus
056,079	4/6/1998	6,152,069	11/28/2000	Multi-Chamber Short Dwell Coater
056,425	4/6/1998	6,153,055	11/28/2000	Apparatus for Assisting in the Release of a Web

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Serial No.	Filing Date	Patent No.	Issue Date	Title
111,581	7/8/1998	6,159,343	12/12/2000	Press-to-Dryer Apparatus
122,203	7/24/1998	6,164,586	12/26/2000	Support Drum Assembly with Cross-Shaft Linkage for Variable Backlash Control
324,469	6/2/1999	6,231,723	5/15/2001	Papermaking Machine for Forming Tissue Employing an Air Press
164,608	12/8/1993	6,231,724	5/15/2001	Thermal-Distortion-Free Doctor for Papermaking
226,700	1/7/1999	6,235,115	5/22/2001	Fountain Coating Applicator and Support Beam
260,347	3/2/1999	6,235,159	5/22/2001	Convergent Flow Head Box