

01-08-2003



102331862

Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) Tab settings

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): Hercules Incorporated 1313 North Market Street Wilmington, DE 19894-0001

12-27-02

2. Name and address of receiving party(ies) Name: Credit Suisse First Boston, as Collateral Agent Internal Address:

3. Nature of conveyance: [] Assignment [] Merger [] Security Agreement [] Change of Name [x] Other Notice of Grant of Security Interest

Street Address: Eleven Madison Avenue City: New York State: NY Zip: 10010

Execution Date: December 20, 2002

Additional name(s) & address(es) attached? [] Yes [x] 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) SEE ATTACHED SCHEDULE

B. Patent No.(s) SEE ATTACHED SCHEDULE Additional numbers attached? [x] Yes [] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Steven D. Thomas Internal Address: Moore & Van Allen PLLC Street Address: 2200 West Main Street, Suite 800 City: Durham State: NC Zip: 27705

6. Total number of applications and patents involved: 50 7. Total fee (37 CFR 3.41).....\$ 2,000.00 [x] Enclosed [x] Authorized to be charged to deposit account

8. Deposit account number: 50-2316

DO NOT USE THIS SPACE

9. Signature. Steven D. Thomas Name of Person Signing [Signature] Signature December 27, 2002 Date

Total number of pages including cover sheet, attachments, and documents: []

01/08/2003 LHMELLER 00000070 08146273 01 FC:8021 2000.00

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT REEL: 013608 FRAME: 0107

Patents & Patent Applications
Division Paper Chemicals/Paper Technology
Date of Report: 03DE2002

D-814B US P G 08/428593 25AP1995 5556510 17SE1996 21JA2014 PCH RAF
Assignee: Betz Laboratory

Title: METHOD FOR INHIBITING THE DEPOSITION OF ORGANIC CONTAMINANTS
IN PULP & PAPERMAKING PROCESSES

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
D-822A	US	G	08/146273	29OC1993	5369115	29NO1994	26MR2013	PCH	RAP
Title: MICROBIAL INHIBITING COMPOSITIONS AND THEIR USE Assignee: BetzDearborn Inc.									
D-885	US	G	08/183550	19JA1994	5416122	16MY1995	19JA2014	PCH	RAP
Title: METHOD & COMPOSITION FOR CONTROLLING THE GROWTH OF MICROORGANISMS Assignee: Betz Laboratories,									
H-1003	US	G	08/498326	05JUL1995	5632860	27MY1997	05JUL2015	PCH	RAP
Title: METHOD OF CONTROLLING FOAM IN AQUEOUS SYSTEMS Assignee: BetzDearborn Inc.									
H-1067	US	G	08/835779	08AP1997	5773590	30JEL1998	08AP2017	PCH	SDB
Title: METHODS OF SEPARATING LIGNIN SOLIDS AND BLACK LIQUOR FROM TALL OIL FATTY ACIDS Assignee: BetzDearborn Inc.									
H-1100	US	G	08/993085	09DE1997	5942219	24AU1999	09DE2017	PCH	JR
Title: COMPOSITION FOR INHIBITING MICROBIAL ADHESION ON SURFACES Assignee: BetzDearborn, Inc.									

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
H-805	US	G	08/000424	04JA1993	5269942	14DE1993	04JA2013	PCH	SDB
Title: QUATERNIZED POLYVINYLAMINES FOR DEINKING LOOP CLARIFICATION									
H-900	US	G	08/215983	23MR1994	5492595	09JA1996	23MR2014	PCH	RAP
Title: METHOD FOR IMPROVING RETENTION AND DRAINAGE CHARACTERISTICS IN ALKALINE PAPERMAKING									
H-911	US	G	08/233603	19AP1994	5538668	23JL1996	19AP2014	PCH	MWS
Title: ANTIFOAM COMPOSITION FOR AQUEOUS STARCH & PAPER COATING SYSTEMS									
K-684	US	G	07/674486	25MR1991	5167767	01DE1992	25MR2011	PCH	SDB
Title: PAPER MILL PRESS FELT CONDITIONER									
K-893A	US	C	08/404771	15MR1995	5575893	19NO1996	02FE2014	PCH	RAP
Title: FELT CONDITIONER FOR DEINKED RECYCLED NEWSPRINT PAPERMAKING SYSTEMS									

Assignee: BetzDearborn Inc

Assignee: BetzDearborn Inc.

Assignee: PAPERCHEM

Assignee: PAPERCHEM

Assignee: BetzDearborn Inc.

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DEC2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
L-1078	US	G	08/870780	06JEL1997	5936024	10AUL1999	06JUL2017	PCH	PER
Title: METHODS AND COMPOSITIONS FOR TREATING STICKIES Assignee: BetzDearborn Inc.									
L-1078C	US	C	09/317212	24MY1999	6150452	21NO2000	06JUL2017	PCH	JR
Title: METHODS AND COMPOSITIONS FOR TREATING STICKIES Assignee: BetzDearborn, Inc.									
L-650	US	G	07/584955	19SE1990	5094716	10MR1992	19SE2010	PCH	RAP
Title: USE OF ANIONIC SURFACTANT/DISPERSANT BLENDS FOR THE DEINKING OF GROUNDWOOD NEWSPRINT Assignee: Betz Laboratories,									
L-650A-1	US	C	08/184723	21JAL1994	5387355	07FEL1995	07FEL2012	PCH	RAP
Title: USE OF ANIONIC SURFACTANT/DISPERSANT BLENDS FOR THE DEINKING OF GROUNDWOOD NEWSPRINT Assignee: BetzDearborn Inc.									
L-672A	US	P	07/913519	14JUL1992	5250152	05OCL1993	20FEL2011	PCH	RAP
Title: ETHOXYLATED ALCOHOL & DIALKYLPHENOL SURFACTANTS AS KRAFT PULPING ADDITIVES FOR REJECT...									

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology

Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Att'y
L-692A-2	US	P	08/217037	24MR1994	5415740	16MY1995	05JA2013	PCH	PVN
Title: METHOD FOR IMPROVING RETENTION AND DRAINAGE CHARACTERISTICS IN ALKALINE PAPERMAKING									
L-692A-3	US	D	08/373706	17JA1995	5532308	02JUL1996	24MR2014	PCH	PVN
Title: METHOD FOR IMPROVING RETENTION AND DRAINAGE CHARACTERISTICS IN ALKALINE PAPERMAKING									
L-692B	US	P	08/101139	03AU1993	5374336	20DE1994	05JA2013	PCH	GMH
Title: WATER SOLUBLE GRAFT COPOLYMERS & METHODS OF USE THEREOF									
L-692C	US	P	08/169819	17DE1993	5387318	07FE1995	05JA2013	PCH	PVN
Title: WATER SOLUBLE GRAFT COPOLYMERS FOR LASER PRINT DEINKING LOOP CLARIFICATION									
L-694	US	G	07/706826	29MY1991	5139616	18AU1992	29MY2011	PCH	GMH
Title: REDUCTION OF STICKIES CONTAMINATION IN PAPER- MAKING PROCESSES USING RECYCLED PAPER									

Assignee: PAPERCHEM

Assignee: BetzDearborn, Inc.

Assignee: BetzDearborn Inc.

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
M-819	US	G	08/029210	10MR1993	5344619	06SEP1994	10MR2013	PCH	GMH
Title: APPARATUS FOR DISSOLVING DRY POLYMER Assignee: BetzDearborn Inc.									
M-471	US	G	06/785420	08OC1985	4886575	12DE1989	12DE2006	PCH	GMH
Title: DETACKIFICATION OF ADHESIVE MATERIALS CONTAINED IN SECONDARY FIBER WITH POLYVINYL ALCOHOL Assignee: BetzDearborn Inc.									
M-471A	US	D	07/386543	27JL1989	4956051	11SE1990	11SE2007	PCH	GMH
Title: DETACKIFICATION OF ADHESIVE MATERIALS CONTAINED IN SECONDARY FIBER USING POLYVINYL ALCOHOL Assignee: BetzDearborn Inc.									
M-478	US	G	06/856733	28AP1986	4698133	06OC1987	28AP2006	PCH	ADR
Title: DETACKIFICATION OF ADHESIVE MATERIALS CONTAINED IN SECONDARY FIBER Assignee: BetzDearborn Inc.									
M-478A	US	D	07/075370	20JL1987	4781794	01NO1988	28AP2006	PCH	RTT
Title: DETACKIFICATION OF ADHESIVE MATERIALS CONTAINED IN SECONDARY FIBER Assignee: Betz Laboratories,									

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
N-1046	US	G	08/677181	09JUL1996	5746888	05MY1998	09JUL2016	PCH	PVN
Title:METHODS FOR INHIBITING ORGANIC CONTAMINANT DEPO- SITION IN PULP & PAPERMAKING SYSTEMS Assignee: BetzDearborn Inc.									
N-1046A	US	D	08/987836	09DE1997	5885419	23MR1999	09JUL2016	PCH	PVN
Title:METHODS FOR INHIBITING ORGANIC CONTAMINANT DEPO- SITION IN PULP & PAPERMAKING SYSTEMS Assignee: BetzDearborn Inc.									
N-1060	US	G	08/761110	05DE1996	5762757	09JE1998	05DE2016	PCH	JR
Title:(COMPOSITIONS &) METHODS FOR INHIBITING ORGANIC CONTAMINANT DEPOSITION IN PULP & PAPERMAKING... Assignee: BetzDearborn Inc.									
N-1060A	US	X	09/016180	30JAL1998	6143800	07NO2000	05DE2016	PCH	JR
Title:COMPOSITIONS AND METHODS FOR INHIBITING ORGANIC CONTAMINANT DEPOSITION IN PULP & PAPERMAKING SYSTEMS Assignee: BetzDearborn, Inc.									

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
N-669	US	G	07/651160	06FEE1991	5229033	20JL1993	06FE2011	PCH	GMH

Assignee: PAPERCHEM

Title: POLYBUTENE BASED FOAM CONTROL COMPOSITIONS FOR AQUEOUS SYSTEMS

N-716	US	G	07/775673	11OC1991	5283002	01FE1994	11OC2011	PCH	GMH
-------	----	---	-----------	----------	---------	----------	----------	-----	-----

Assignee: BetzDearborn Inc.

Title: ANTIFOAM/DEFOAMER COMPOSITION & METHOD OF USE THEREOF IN AQUEOUS SYSTEMS

N-978	US	G	08/421349	12AP1995	5536363	16JL1996	12AP2015	PCH	PVN
-------	----	---	-----------	----------	---------	----------	----------	-----	-----

Assignee: PAPERCHEM

Title: METHODS FOR INHIBITING THE DEPOSITION OF ORGANIC CONTAMINANTS IN PULP & PAPERMAKING SYSTEMS...

N-978A	US	P	08/651077	22MY1996	5779858	14JL1998	12AP2015	PCH	PVN
--------	----	---	-----------	----------	---------	----------	----------	-----	-----

Assignee: BetzDearborn Inc.

Title: DEPOSITION CONTROL IN PULP & PAPERMAKING SYSTEMS USING A COMPOSITION COMPRISING OF POLYVINYL...

N-978A-1	US	P	08/700974	21AU1996	5723021	03MR1998	22MY2016	PCH	PVN
----------	----	---	-----------	----------	---------	----------	----------	-----	-----

Assignee: BetzDearborn Inc.

Title: METHOD FOR INHIBITING DEPOSITION IN PULP & PAPER MAKING SYSTEMS USING A COMPOSITION COMPRISING...

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
N-978A-2	US	D	08/907325	06AU1997	5866618	02FE1999	22MY2016	PCH	PVN
Title: COMPOSITIONS (& METHODS) FOR INHIBITING THE DEPOSITION OF ORGANIC CONTAMINANTS IN PULP & PAPER..									
N-978A-3	US	D	08/932136	16SE1997	5952394	14SE1999	21AU2016	PCH	PVN
Title: COMPOSITIONS (& METHODS) FOR INHIBITING THE DEPOSITION OF ORGANIC CONTAMINANTS IN PULP & ...									
G-920	US	G	08/307975	16SE1994	5530137	25JE1996	16SE2014	PCH	PVN
Title: METHODS AND COMPOSITIONS FOR STABILIZING FATTY ACID IMIDAZOLINE SOLUTIONS									
P-622	US	G	07/541240	20JE1990	4997523	05MR1991	20JE2010	PCH	GMH
Title: METHOD FOR EFFECTIVELY BREAKING UP LATEX-COATED PAPER DURING PULPING TO DECREASE THE ...									
P-776	US	G	07/898974	15JE1992	5312841	17MY1994	15JE2012	PCH	RAP
Title: WATER BASED BIOCIDES									

Assignee: BetzDearborn Inc.

Assignee: BetzDearborn Inc.

Assignee: PAPERCHEM

Assignee: BetzDearborn Inc.

Assignee: BetzDearborn Inc.

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docct Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
P-847	US	G	08/080910	22JJE1993	5405498	11AP1995	22JJE2013	PCH	RAP

Title:METHOD FOR IMPROVING PULP WASHING EFFICIENCY
 Assignee: BetzDearborn Inc

P-875	US	G	08/132076	05OC1993	5464502	07NO1995	05OC2013	PCH	RAP
-------	----	---	-----------	----------	---------	----------	----------	-----	-----

Title:ANIONIC SULFONATE SURFACTANTS IN THE WASHING AND PULPING
 Assignee: PAPERCHEM

P-883	US	G	08/182814	14JA1994	5415798	16MY1995	14JA2014	PCH	PVN
-------	----	---	-----------	----------	---------	----------	----------	-----	-----

Title:CONCENTRATED HIGH FLASH POINT SURFACTANT COMPO- SITIONS
 Assignee: PAPERCHEM

P-932	US	G	08/307969	16SE1994	5626718	06MY1997	16SE2014	PCH	RAP
-------	----	---	-----------	----------	---------	----------	----------	-----	-----

Title:USE OF POLYMERS IN THE RECYCLED FIBER WASHING/ DEINKING
 PROCESS
 Assignee: BetzDearborn Inc

R-1057	US	G	08/749873	15NO1996	5885413	23MR1999	15NO2016	PCH	RAP
--------	----	---	-----------	----------	---------	----------	----------	-----	-----

Title:DEINKING WASTEPAPER CONTAINING ELECTROSTATIC PRINTED INK
 USING BRANCHED ALCOHOL ALKOXYLATE...
 Assignee: BetzDearborn Inc

Patents & Patent Applications
 Division Paper Chemicals/Paper Technology
 Date of Report: 03DE2002

Docket Number	Country	Status	Application Number	Application Date	Patent Number	Patent Date	Exp.	Div.	Atty
R-689	US	G	07/691210	25AP1991	5141598	25AUI992	25AP2011	PCH	RAP

Title: PROCESS & COMPOSITION FOR DEINKING DRY TONER ELECTROSTATIC PRINTED WASTE PAPER
 Assignee: PAPERCHEM

S-1076	US	G	08/856218	14MY1997	5800719	01SE1998	14MY2017	PCH	PVN
--------	----	---	-----------	----------	---------	----------	----------	-----	-----

Title: METHOD FOR DEWATERING DEINKING SLUDGE USING A WATER SOLUBLE BLOCK COPOLYMER
 Assignee: BetzDearborn Inc.

S-1130	US	G	09/152695	19AUI998	6168686	02JAZ2001	19AU2018	PCH	GS
--------	----	---	-----------	----------	---------	-----------	----------	-----	----

Title: PAPERMAKING AID
 Assignee: BetzDearborn Inc.

S-513	US	G	07/029827	24MR1987	4715931	29DE1987	24MR2007	PCH	JDD
-------	----	---	-----------	----------	---------	----------	----------	-----	-----

Title: PROCESS FOR INHIBITING ALUMINUM HYDROXIDE DEPOSITION IN PAPERMAKING FELTS
 Assignee: BetzDearborn Inc.

T-533	US	G	07/240774	02SE1988	5061346	29OC1991	29OC2008	PCH	RAP
-------	----	---	-----------	----------	---------	----------	----------	-----	-----

Title: PAPERMAKING USING CATIONIC STARCH & CMC OR ITS ADDITIONALLY SUBSTITUTED DERIVATIVES
 Assignee: BetzDearborn Inc.

NOTICE
OF
GRANT OF SECURITY INTEREST
IN
PATENTS

United States Patent and Trademark Office

Gentlemen:

Please be advised that pursuant to the Security Agreement dated as of December 20, 2002 (the "Security Agreement") by and among the Obligor party thereto (each an "Obligor" and collectively, the "Obligors") and Credit Suisse First Boston, as Collateral Agent (the "Collateral Agent") for the benefit of the Lenders referenced therein (the "Lenders"), the undersigned Obligor has granted a continuing security interest in and continuing lien upon, the patents and patent applications shown below to the Collateral Agent for the ratable benefit of the Lenders:

PATENTS

<u>Patent No.</u>	Description of Patent <u>Item</u>	Date of <u>Patent</u>
-------------------	--------------------------------------	--------------------------

[please see attached Exhibit A]

Patent Applications

<u>Patent Applications No.</u>	Description of Patent <u>Applied For</u>	Date of Patent <u>Applications</u>
------------------------------------	---	---------------------------------------

[please see attached Exhibit A]

The Obligors and the Collateral Agent, on behalf of the Lenders, hereby acknowledge and agree that the security interest in the foregoing patents and patent applications (i) may only be terminated in accordance with the terms of the Security Agreement and (ii) is not to be construed as an assignment of any patent or patent application.

Very truly yours,

HERCULES INCORPORATED

By: Israel J. Floyd
Name: ISRAEL J. FLOYD
Title: DULY AUTHORIZED REPRESENTATIVE

Acknowledged and Accepted:

CREDIT SUISSE FIRST BOSTON, as Collateral Agent

By: _____
Name: _____
Title: _____

By: _____
Name: _____
Title: _____

The Obligors and the Collateral Agent, on behalf of the Lenders, hereby acknowledge and agree that the security interest in the foregoing patents and patent applications (i) may only be terminated in accordance with the terms of the Security Agreement and (ii) is not to be construed as an assignment of any patent or patent application.


Very truly yours,

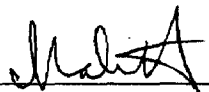
HERCULES INCORPORATED

By: _____
Name: _____
Title: _____

Acknowledged and Accepted:

CREDIT SUISSE FIRST BOSTON, as Collateral Agent

By: 
Name: JAMES P. MORAN
Title: DIRECTOR

By: 
Name: IAN W. NALITT
Title: ASSOCIATE

December 27, 2002

Steven D. Thomas
Attorney at Law

T 919 286 8122
F 919 416 8322
steventhomas@mvalaw.com

Via Express Mail:
EV194466370US

Commissioner of Patents and Trademarks
BOX ASSIGNMENTS
Washington, D.C. 20231

Moore & Van Allen PLLC

Offices:
Suite 800
2200 West Main Street
Durham, NC 27705-4658

Re: Recordation of Notice of Grant of Security Interest in Patents
Attorney Docket Number: 032037.01

Mailing Address:
Post Office Box 3843
Durham, NC 27702-3843

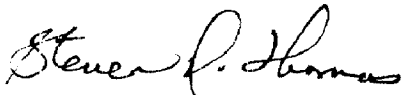
Dear Sir/Madam:

Please find enclosed the following documents for recording with the Patent and Trademark Office.

1. Recordation Form Cover Sheet – Patents;
2. Notice of Grant of Security Interest in Patents, executed December 20, 2002 between Hercules Incorporated and Credit Suisse First Boston, as Collateral Agent;
3. Check No. 35780 in the amount of Two Thousand Dollars (\$2,000.00);
4. Postcard acknowledgment of filed Notice of Grant of Security Interest in Patents documents.

Sincerely yours,

Moore & Van Allen PLLC



Steven D. Thomas

CERTIFICATE OF MAILING BY "EXPRESS MAIL"
"Express Mail" mailing label number EV194466370US
I hereby certify that this correspondence is addressed to the Commissioner of Patents and Trademarks, BOX ASSIGNMENTS, Washington, DC 20231 and is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date noted below.

Kim Oakley
(Typed or printed name of person mailing paper or fee)

K. Oakley
(Signature of person mailing papers or fee)

12-27-2002
(Date of Signature)