| FORM PTO-16 Expires 06/30/99 OMB 0651-0027 | | 1-19-2001 | U.S. Department of Commerce Patent and Trademark Office PATENT |
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| MICO | 115101 | 101588493 | |
| TO: The Com Submission Type | missioner of Patents and Trademarks: P | Please record the attached of Conveyance Type | riginal document(s) or copy(ies). |
| New Resubmission Document ID# | (Non-Recordation) | Assignment License | Security Agreement Change of Name |
| Correction of F | PTO Error | | Other Notice of Grant of Security Interest U.S. Government |
| Reel # | Frame # | | Use ONLY by U.S. Government Agencies) |
| Corrective Doc Reel# | rument Frame # | | Departmental File Secret File |
| Conveying Party(i | es) Mark if addition | al names of conveying pa | |
| | | | Execution Date Month Day Year |
| Name (line 1) | Hercules Incorporated, a Delaw | rare corporation | 11/14/00 |
| Name (line 2) | | | |
| Second Party | | | Execution Date |
| Name (line 1) | Hercules Credit, Inc., a Delawa | re corporation | Month Day Year 11/14/00 |
| Name (line 2) | | | |
| Receiving Party | Mark if addition | al names of receiving par | ies attached |
| | | | If document to be recorded is an assignment |
| Name (line 1) | Bank of America, N.A., as C | Collateral Agent | and the receiving party is not domiciled in the |
| Name (line 2) | | | United States, an appointment of a domestic |
| Address (line 1) | 101 N. Tryon Street | | representative should be attached. (Designation |
| Address (line 2) | Independence Center, 15th Fl | oor | must be a separate document from Assignment.) |
| Address (line 3) | Charlotte [| North Carolina State/Country | 28255 Zip Code |
| Domestic Represent | ative Name and Address Enter | for the first Receiving Party on | |
| Name | N/A | | |
| Address (line 1) | | | |
| Address (line 2) | | | |
| Address (line 3) | | | |
| Address (line 4) 19/2001 DNGUYEN 000 | 000107 4370354 F | OR OFFICE USE ONLY | |
| FC:561Public burden repor | rting for this collection of Mormation is estimated to | average approximately 30 minutes | per Cover Sheet to be recorded, including time for reviewing the |
| Information Officer | ering the data needed to complete the Cover Sheet. S , Washington, D.C. 20231 and to the Office of Inform | end comments regarding this burde ation and Regulatory Affairs, Offic | n estimate to the U.S. Patent and Trademark Office, Chief e of Management and Budget, Paperwork Reduction Project (0651- rademark Assignment Practice. DO NOT SEND REQUESTS TO |

RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

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

| FORM PTO-1 Expires 06/30, OMB 0651-00 | /99 | Page 2 | U.S. Department of Commerce Patent and Trademark Office PATENT |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Correspondent ! | Name and Address | Area Code and Tele | ephone Number (919) 286-8000 |
| | | Area Code and Tele | phone Number (517) 280-8000 |
| Name | Steven D. Thomas | | |
| Address (line 1) | Moore & Van Allen PLLC | | |
| Address (line 2) | 2200 West Main Street | | |
| Address (line 3) | Suite 800 | | |
| Address (line 4) | Durham, North Carolina 27 | 705 | |
| Pages | Enter the total number of pages of including any attachments. | the attached conveyance document | # |
| | nber(s) or Patent Number(s) her the Patent Application Number <u>o</u> r | Mark if additional r | |
| 1 | Patent Application Number(s) | | Patent Number(s) |
| | | 4370354 | 4382129 4383077 |
| | | 4380603 | 4482681 4380602 |
| | ing filed together with a <u>new</u> Patent Applica med executing inventor. | 4469555 ation, enter the date the patent application was | 4404314 4450125 Month Day Year |
| Patent Cooperat | tion Treaty (PCT) | | |
| only if a | CT application number U.S. Application Number been assigned. | PCT PCT PCT | PCT PCT |
| Number of Prop | Enter the total nu | umber of properties involved. | # 45 |
| Fee Amount | Fee Amount for | Properties Listed (37 CFR 3.41): | \$ [1,800.00 |
| Deposit | of Payment: Enclosed \(\sum \) Account or payment by deposit account or if ac | Deposit Account Iditional fees can be charged to the accound Deposit Account Number: Authorization to charge additional fee | # 13-4365 |
| documen Steven | gnature st of my knowledge and belief, the forego t. Charges to deposit account are author D. Thomas f Person Signing | ing information is true and correct and any a ized as indicated herein. Signature | nttached copy is a true copy of the original Outer Signed |

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RECORDATION FORM COVER SHEET

| CONTINUATION PATENTS ONLY | |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Conveying Party(ies) Mark if additional names of conveying parties attached Enter Additional Conveying Party | |
| | Execution Date Month Day Year |
| Name (line 1) Hercules Flavor, Inc., a Delaware corporation | 11/14/00 |
| Name (line 2) | Execution Date Month Day Year |
| Name (line 1) WSP, Inc., a Delaware corporation | 11/14/00 |
| Name (line 2) | Execution Date Month Day Year |
| Name (line 1) Aqualon Company, a Delaware partnership | 11/14/00 |
| Name (line 2) | |
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| Receiving Party(ies) Mark if additional names of receiving parties at Enter Additional Receiving Party | If document to be recorded |
| Name (line 1) | is an assignment and the receiving party is not domiciled in the United |
| Name (line 2) | States, an appointment of a domestic representative |
| Address (line 1) | should be attached. (Designation must be a separate document from |
| Address (line 2) | Assignment.) |
| Address (line 3) | |
| City State/Country | Zip Code If document to be recorded |
| Name (line 1) | is an assignment and the receiving party is not |
| Name (line 2) | domiciled in the United States, an appointment of a |
| Address (line 1) | domestic representative should be attached. (Designation must be a |
| Address (line 2) | separate document from Assignment.) |
| Address (line 3) City State/Country | |
| | Zip Code |
| Application Number(s) | attached bers for the same property). |
| Patent Application Number(s) Patent | Number(s) |
| 4414353 4456 | 724 4434267 |
| 4520171 44264 | 4403063 |
| 4419500 44194 | 4478682 |
| 4422878 45028 | 4522686 |
| 4487884 44839 | 959 4535013 |
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| Conveying Party(ies) Mark if additional names of conveying parties attached | | |
| Enter Additional Conveying Party Execution Date Month Day Your | | |
| Name (line 1) Hercules Finance Company, a Delaware partnership 11/14/00 | | |
| Name (line 2) Execution Date Month Day Year | | |
| Name (line 1) Fibervisions, L.L.C., a Delaware limited liability company 11/14/00 | | |
| Name (line 2) Execution Date Month Day Year | | |
| Name (line 1) Fibervisions Incorporated, a Delaware corporation 11/14/00 | | |
| Name (line 2) | | |
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| Receiving Party(ies) Enter Additional Receiving Party Mark if additional names of receiving parties attached If document to be recorded is an assignment and the | | |
| Name (line 1) receiving party is not domiciled in the United | | |
| Name (line 2) States, an appointment of a domestic representative | | |
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| Address (line 2) separate document from Assignment.) | | |
| Address (line 3) City State/Country Zip Code | | |
| Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). | | |
| Patent Application Number(s) Patent Number(s) | | |
| 4594396 4492781 4552794 | | |
| 4501862 4537657 4591617 | | |
| 4608123 4605709 4587302 | | |
| 4590063 4597831 4598006 | | |
| 4626467 4732936 4605694 | | |

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| Conveying Party(ies) | | if additional names of conveying parties | attached |
| Enter Additional Conv | eying Party | | Execution Date Month Day Year |
| Name (line 1) | Fibervisions Products, Inc | c., a Georgia corporation | 11/14/00 |
| Name (line 2) | | | Execution Date Month Day Year |
| Name (line I) | Hercules International Li | mited, a Delaware corporation | 11/14/00 |
| Name (line 2) | | | Execution Date Month Day Year |
| Name (line 1) | Betzdearborn Inc., a Penn | nsylvania corporation | 11/14/00 |
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| | | 4701517 | 4678684 4748070 |
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| Conveying Party(ies) Mark if additional names of conveying parties attached | |
| Enter Additional Conveying Party | Execution Date |
| Name (line 1) Betzdearborn Europe, Inc., a Pennsylvania corporation | Month Day Year 11/14/00 |
| Name (line 2) | Execution Date |
| Name (line 1) DRCLTD., a Delaware corporation | Month Day Year 11/14/00 |
| Name (line 2) | Execution Date |
| Name (line 1) BL Technologies, Inc., a Delaware corporation | Month Day Year 11/14/00 |
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| Receiving Party(ies) Mark if additional names of receiving parties a Enter Additional Receiving Party | ttached If document to be recorded |
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U.S. Department of Commerce Patent and Trademark Office **PATENT**

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| Conveying Party(ies) Enter Additional Conveying Party Name (line 1) BLI Holdings Corp., a Delaware corporation Name (line 2) Name (line 1) Hercules Shared Services Corporation, a Delaware corporation Name (line 1) Betzdearborn International, Inc., a Pennsylvania corporation Name (line 2) Receiving Party(ies) Enter Additional Receiving Party Mark if additional names of receiving parties attached Enter Additional Receiving Party Receiving Party(ies) Enter Additional Receiving Party Name (line 1) Name (line 2) Address (line 3) City State/Country Mark if additional names of conveying parties attached It document to be recorded is an assignment and the receiving party is not domicible of the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Assignment.) Address (line 1) Name (line 2) Address (line 2) Address (line 3) City State/Country Zip Code Lift document to be recorded is an assignment and the receiving party is not domicible in the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Assignment.) Address (line 2) Address (line 3) City State/Country Zip Code | CONTINUATION PATENTS ONLY | |
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| Name (line 1) BLI Holdings Corp., a Delaware corporation Name (line 2) Name (line 1) Hercules Shared Services Corporation, a Delaware corporation Name (line 2) Name (line 2) Name (line 1) Betzdearborn International, Inc., a Pennsylvania corporation Name (line 2) Receiving Party(ies) Enter Additional Receiving Party Name (line 1) Mark if additional names of receiving parties attached Enter Additional Receiving Party Name (line 2) Address (line 1) Name (line 2) Address (line 2) Name (line 2) Address (line 2) Name (line 2) Address (line 3) City State/Country Execution Date Month Day Year [I /14/00 Execution Date Month Day Year [I | Conveying Party(ies) Mark if additional names of conveying parties attached | |
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| Name (line 1) BLI Holdings Corp., a Delaware corporation Name (line 2) | | = |
| Name (line 1) Hercules Shared Services Corporation, a Delaware corporation Name (line 2) | Name (line 1) BLI Holdings Corp., a Delaware corporation | |
| Name (line 1) Hercules Shared Services Corporation, a Delaware corporation Name (line 2) Name (line 1) Betzdearborn International, Inc., a Pennsylvania corporation Name (line 2) Receiving Party(ies) Enter Additional Receiving Party Name (line 1) Name (line 2) Mark if additional names of receiving parties attached Enter Address (line 1) Address (line 3) City State/Country City State/Country Address (line 2) Address (line 2) Address (line 2) Address (line 3) City State/Country Address (line 2) Address (line 2) Address (line 3) City State/Country Address (line 2) Address (line 2) Address (line 3) City State/Country Address (line 2) Address (line 2) Address (line 3) City State/Country Address (line 3) City State/Country Address (line 2) Address (line 2) Address (line 3) City State/Country Address (line 2) Address (line 3) City State/Country Address (line 3) City Address (line 3) City State/Country Application Number(s) or Patent Number (property). | Name (line 2) | Execution Date |
| Name (line 1) Receiving Party(ies) Enter Additional Receiving Party Name (line 2) Mark if additional names of receiving parties attached If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative should be attached. Address (line 2) Address (line 3) City State/Country Tip Code If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Assignment.) Address (line 2) Address (line 3) City State/Country Zip Code If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Assignment.) Address (line 2) Address (line 3) City State/Country Zip Code Application Number(s) or Patent Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). | Nome (line 1) | |
| Name (line 1) Betzdearborn International, Inc., a Pennsylvania corporation Name (line 2) Receiving Party(les) | Hercules Shared Services Corporation, a Delaware corporation | 11/14/00 |
| Name (line 1) Receiving Party(ies) Enter Additional Receiving Party Name (line 1) Name (line 2) Mark if additional names of receiving parties attached Enter Additional Receiving Party Name (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3) City State/Country Zip Code If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Assignment.) Address (line 3) City State/Country Zip Code If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Address (line 1) Address (line 2) Address (line 3) City State/Country Zip Code Address (line 3) City State/Country Zip Code Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number of the Patent Number (DO NOT ENTER BOTH numbers for the same property). | Name (line 2) | |
| Receiving Party(ies) | Name (line 1) Betzdearborn International, Inc., a Pennsylvania corporation | |
| Enter Additional Receiving Party Name (line 1) Name (line 2) Address (line 1) Address (line 2) Address (line 3) City State/Country State/Country Address (line 1) Name (line 2) Address (line 3) City State/Country State/Country Address (line 3) City State/Country Address (line 3) States, an appointment to be recorded is an assignment.) Address (line 3) Address (line 3) City State/Country Address (line 4) States, an appointment to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Assignment.) Address (line 1) Address (line 2) Address (line 2) Address (line 3) City State/Country Zip Code Application Number(s) or Patent Number(s) Mark if additional numbers attached Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property). | Name (line 2) | |
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| RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY | |
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| Conveying Party(ies) Mark if additional names of conveying parties attache | d |
| Enter Additional Conveying Party | Execution Date |
| Name (line 1) Athens Holdings, Inc., a Delaware corporation | Month Day Year 11/14/00 |
| Name (line 2) | Execution Date |
| Name (line 1) Betzdearborn China, Ltd., a Delaware corporation | Month Day Year 11/14/00 |
| Name (line 2) | Execution Date |
| Name (line 1) BL Chemicals Inc., a Delaware corporation | Month Day Year 11/14/00 |
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| Receiving Party(ies) Enter Additional Receiving Party Mark if additional names of receiving parties | If document to be recorded is an assignment and the |
| Name (line 1) | receiving party is not domiciled in the United |
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| Conveying Party(ies) | | ed | |
| Enter Additional Conv | veying Party | Execution Date | |
| 1 | | Month Day Year | |
| Name (line 1) | Chemical Technologies India, Ltd., a Delaware corporation | 11/14/00 | |
| Name (line 2) | | Execution Date Month Day Year | |
| Name (line 1) | Covington Holdings, Inc., a Delaware corporation | 11/14/00 | |
| Name (line 2) | | Execution Date Month Day Year | |
| Name (line 1) | East Bay Realty Services, Inc., a Delaware corporation | 11/14/00 | |
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| | (s) or Patent Number(s) Mark if additional number er the Patent Number (DO NOT ENTER BOTH number (DO NOT ENTER BOTH number) | | |
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U.S. Department of Commerce Patent and Trademark Office **PATENT**

RECORDATION FORM COVER SHEET

| CONTINUATION PATENTS ONLY | |
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| Conveying Party(ies) Mark if additional names of conveying parties attache | d |
| Enter Additional Conveying Party | Execution Date |
| Name (line 1) Fibervisions, L.P., a Delaware limited partnership | Month Day Year 11/14/00 |
| Name (line 2) | Execution Date Month Day Year |
| Name (line 1) Hercules Chemical Corporation, a Delaware corporation | 11/14/00 |
| Name (line 2) | Execution Date Month Day Year |
| Name (line 1) Hercules Country Club, Inc., a Delaware corporation | 11/14/00 |
| Name (line 2) | |
| Receiving Party(ies) Mark if additional names of receiving parties | attached |
| Enter Additional Receiving Party | If document to be recorded is an assignment and the |
| Name (line 1) | receiving party is not domiciled in the United |
| Name (line 2) | States, an appointment of a domestic representative |
| Address (line 1) | should be attached. (Designation must be a separate document from |
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| Address (line 2) | separate document from Assignment.) |
| Address (line 3) City State/Country | Zip Code |
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U.S. Department of Commerce Patent and Trademark Office **PATENT**

| RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY | |
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| Conveying Party(ies) Mark if additional names of conveying parties attac | hed |
| Enter Additional Conveying Party | Execution Date |
| Name (line 1) Hercules Euro Holdings, LLC, a Delaware limited liability company | Month Day Year 11/14/00 |
| Name (line 2) | Execution Date |
| Name (line 1) Hercules International Limited, L.L.C., a Delaware limited liability company | Month Day Year 11/14/00 |
| Name (line 2) | Execution Date |
| Name (line 1) Hercules Investments, LLC, a Delaware limited liability company | Month Day Year 11/14/00 |
| Name (line 2) | |
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| Name (line 2) | States, an appointment of a domestic representative |
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| Address (line 2) | separate document from Assignment.) |
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| Name (line 2) | domiciled in the United States, an appointment of a |
| Address (line 1) | domestic representative should be attached. (Designation must be a |
| Address (line 2) | separate document from Assignment.) |
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U.S. Department of Commerce Patent and Trademark Office PATENT

RECORDATION FORM COVER SHEET CONTINUATION PATENTS ONLY

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NOTICE

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GRANT OF SECURITY INTEREST

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PATENTS

United States Patent and Trademark Office

Gentlemen:

Please be advised that pursuant to the Security Agreement dated as of November 14, 2000 (the "Security Agreement") by and among the Obligors party thereto (each an "Obligor" and collectively, the "Obligors") and Bank of America, N.A., as Collateral Agent (the "Agent") for the Secured Parties referenced therein (the "Secured Parties"), each of the undersigned Obligors has granted a continuing security interest in and continuing lien upon, the patents and patent applications to the extent owned by such Obligor and shown on the attached Schedule A to the Collateral Agent for the ratable benefit of the Secured Parties:

The Obligors and the Collateral Agent, on behalf of the Secured Parties, 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,

a Delaware corporation

HERCULES CREDIT, INC.,

a Delaware corporation

HERCULES FLAVOR, INC.,

a Delaware corporation

WSP, INC.,

a Delaware corporation

AQUALON COMPANY,

a Delaware partnership

HERCULES FINANCE COMPANY,

a Delaware partnership

FIBERVISIONS, L.L.C.,

a Delaware limited liability company

FIBERVISIONS INCORPORATED,

a Delaware corporation

FIBERVISIONS PRODUCTS, INC.,

a Georgia corporation

HERCULES INTERNATIONAL LIMITED,

a Delaware corporation

BETZDEARBORN INC.,

a Pennsylvania corporation

BETZDEARBORN EUROPE, INC.,

a Pennsylvania corporation

DRCLTD.,

a Delaware corporation

BL TECHNOLOGIES, INC.,

a Delaware corporation

BLI HOLDINGS CORP.,

a Delaware corporation

HERCULES SHARED SERVICES CORPORATION,

a Delaware corporation

BETZDEARBORN INTERNATIONAL, INC.,

a Pennsylvania corporation

ATHENS HOLDINGS, INC.,

a Delaware corporation

[signature pages continue]

BETZDEARBORN CHINA, LTD., a Delaware corporation

BL CHEMICALS INC., a Delaware corporation

CHEMICAL TECHNOLOGIES INDIA, LTD.,

a Delaware corporation

COVINGTON HOLDINGS, INC.,

a Delaware corporation

EAST BAY REALTY SERVICES, INC.,

a Delaware corporation

FIBERVISIONS, L.P.,

a Delaware partnership

HERCULES CHEMICAL CORPORATION,

a Delaware corporation

HERCULES COUNTRY CLUB, INC.,

a Delaware corporation

HERCULES EURO HOLDINGS, LLC,

a Delaware limited liability company

HERCULES INTERNATIONAL LIMITED, L.L.C.,

a Delaware limited liability company

HERCULES INVESTMENTS, LLC,

a Delaware limited liability company

HISPAN CORPORATION,

a Delaware corporation

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| | for ea | ch of th | e foreg | oing | 1 | |

Acknowledged and Accepted:

BANK OF AMERICA, N.A., as Collateral Agent

By:______
Name:_____
Title:

BETZDEARBORN CHINA, LTD.,

a Delaware corporation

BL CHEMICALS INC.,

a Delaware corporation

CHEMICAL TECHNOLOGIES INDIA, LTD.,

a Delaware corporation

COVINGTON HOLDINGS, INC.,

a Delaware corporation

EAST BAY REALTY SERVICES, INC.,

a Delaware corporation

FIBERVISIONS, L.P.,

a Delaware partnership

HERCULES CHEMICAL CORPORATION,

a Delaware corporation

HERCULES COUNTRY CLUB, INC.,

a Delaware corporation

HERCULES EURO HOLDINGS, LLC,

a Delaware limited liability company

HERCULES INTERNATIONAL LIMITED, L.L.C.,

a Delaware limited liability company

HERCULES INVESTMENTS, LLC,

a Delaware limited liability company

HISPAN CORPORATION,

a Delaware corporation

| By: | |
|--------|---------------------------|
| Name: | |
| Title: | |
| | for each of the foregoing |

Acknowledged and Accepted:

BANK OF AMERICA, N.A., as Collateral Agent

By: Level The Name: DONALD J. CHIN

Title: MANAGING DIRECTOR

United States Country Date of Report: 13NO2000 Hercules Patents World-wide By

| ************* | Owner:Hercules Incorporated | Li | Owner:Hercules Incorporated | Owner:Hercules Incorporated | ı | es Incorporated | | Owner:Hercules Incorporated |
|-----------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------|------------------|----------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------|
| ******* | Owner:Hercul | | Owner:Hercul | Owner:Hercul | | Owner:Hercules | | Owner:Hercul |
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| ************** | Grant Dt Pat No 25JA1983 4370354 Attorney:DE | ION OF CALCIUM ION WITH 03MY1983 4382129 | Case: BANKERT 7 Title:ACRYLAMIDE-MODIFIED DICYANDIAMIDE/FORMALDEHYDE CONDENSATES, | 10MY1983 4383077 Attorney:HLD | CON | 19AP1983 4380603 Attorney:HLD | AMIDE/FORMALDEHYDE | 13NO1984 4482681 Attorney:MCS POLYMERS WITH SELECTED THIO |
| ********** | Types Status | CO INHIBIT REACT | TED DICYANDIAMI | ъ | .CYANDIAMIDE/FOR | | DIFIED DICYANDIA | G TAD 1 OGENATED POLYMEI |
| ************************************ | Docket No. Ctry 3188 US Case: LEIPOLD 1 | Title:USE OF XANTHAN TO INHIBIT REACTION OF CALC. 3190 US G 03MY1983 | Case: BANKERT 7 Title:ACRYLAMIDE-MODIF | 3191 US Case: BANKERT 8 | e:UREA-MODIFIED | 3192 US Case: BANKERT 9 | IICIE:EFIHALOHYDKIN-MODIFIED DICYANDIAMIDE/FORMALDEHYDE | 3193 US G Case: BERTA & KYLLINGSTAD 1 Title:CROSSLINKING HALOGENATED |

| Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated |
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| СН | 04SE2001 CH | 12JA2002 EX |
| Business Unit:PCH | 04MR1996 Business Unit:PCH ILLERS | 13MR1995 Business Unit:TEX AS |
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| Attorney:HLD ONDENSATES MODII | 04SE1984) Attorney: CLES AS SELF-1 | 13SE1983 Attorney:JFC -ACRYLATE TYPE |
| гренуре сс | G 5 (1-2-11) FEX PARTIC | G LAMIDE-CO |
| T Case: DUMAS 15 Title:DICYANDIAMIDE/FORMALDEHYDE CONDENSATES MODIFIED WITH | 13198 US D G 04SE1984 56 Se: MASLANKA & SPENCE 15 (1-2-11) Attorney: 57 Set Maslanka & SPENCE 15 (1-2-11) Attorney: 58 SELF- | Title:ALKALI-TREATED ACRYLAMIDE-CO-ACRYLATE TYPE POLYMERS |
| Tase: | ® PATE RATE 11425 I | ENST & STEEL |

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Owner: Hercules Incorporated

22MY2001

Business Unit:TEX

Q 3222 **O** Case: PLESKA & VOITURON 2 Attorney:CLD **G** Title:MAKING POLYPROPYLENE PULP BY SPURTING FROM HEXANE MEDIUM **H** 3195 **H** Case: DUMAS 15

United States Country Date of Report: 13NO2000 Hercules Patents World-wide By

| | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated |
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| Nxt Tax Dt Exp Dt | 08MY1995 08NO2000 Business Unit:PCH FILLERS | 26DE1995 26JE2001 Business Unit:PCH FILLERS | 28AU1995 28FE2001 Business Unit:PCH FITLERS | 28NO1996 28MY2002 Business Unit:TEX | 17JL1995 17JA2001 Business Unit:PCH FILLERS | 06MR1995 06SE2000 Business Unit:PCH FILLERS | 06JE1995 06DE2000 Business Unit:PCH | 06JE1995 06DE2000 Business Unit:PCH :DE-BASED | 23AP1996 23OC2001 Business Unit:PCH |
| Grant Dt Pat No. | m | ₹ . | 31984 4434267 rney:CLB SELF-RETAINING | 28MY1985 4520171 Attorney:JEC 3D AMINE AND | m | :1983 4403063 ney:CLB SELF-RETAINING | 06DE1983 4419500 Attorney:HLD FOR MAKING | 06DE1983 4419498 06 Attorney:HLD Busines FOR MAKING AMINOPOLYAMIDE-BASED | 230C1984 4478682 Attorney:CLB PAPER SIZE INCLUDING |
| Docket No. Ctry Types Status | 3231 US D G 08NO1983 441435. Case: MASLANKA & SPENCE 16 (1-2-6) Attorney:CLB Title:SURFACE-MODIFIED LATEX PARTICLES AS SELF-RETAINING | 3232 US D G 26JE1984 445672. Case: MASLANKA & SPENCE 17 (1-2-6) Attorney:CLB Title:SURFACE-MODIFIED LATEX PARTICLES AS SELF-RETAINING | 3233 US D G 28FI Case: MASLANKA & SPENCE 18 (1-2-6) Attol Title:SURFACE-MODIFIED LATEX PARTICLES AS | 3246 US G 28MY19 Case: DIVELEY & CLAYTON 1 Attorney Title:POLYMERIC CONDENSATE OF HINDERED AMINE | 3250 US D G 17JA1984 442648: Case: MASLANKA & SPENCE 19 (1-2-8) Attorney:CLB Title:SURFACE-MODIFIED LATEX PARTICLES AS SELF-RETAINING | 3259 US D G 06SE Case: MASLANKA & SPENCE 21 (1-2-5) Attor Title:SURFACE-MODIFIED LATEX PARTICLES AS | 3262 US D G G Se: BANKERT 10 (6) | US D G Case: BANKERT 11 (6) Title:EPICHLOROHYDRIN-FREE PROCESS FO | O 3273 CASE: BANKERT & DUMAS 2 (1) Title:PROMOTER RESIN FOR KETENE DIMER PAPER |

Hercules Patents World-wide By Country - United States Date of Report: 13NO2000

| Docket No. | Ctry | $	ext{Types}$ | Types Status | Grant Dt | Pat No. | Nxt Tax Dt | Exp Dt | |
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| 3283 | ns | 1 1 1 1 | ָן | 27DE1983 | 4422878 | 27JE1995 | 29NO2002 | |
| Case: FRY 1 Title:ASPHALT | | MIXTURE | Attorne PAVING MIXTURES CONTAINING FIB | Attorney:JEC NING FIBROUS | Y:JEC B. | Business Unit:TEX | EX | Owner:Hercules Incorporated |
| 3292 US P G 05MR19 Case: TRIMBLE 9 (8) Attorne Title:CONTINUOUS DISPENSING AND SPREADING OF | US 9 (8) OUS DISPI | P ENSING A | G AND SPRE? | ∞ >₁_ | 5 4502814 :JEC WET-LAID | 05SE1996 Business Unit:TEX | 05MR2002 EX | Owner:Hercules Incorporated |
| 3335 US C G 11JE19 Case: DUMAS 16 (14) Attorne Title:BLENDS OF STABILIZED KETENE DIMER EMUL | US 6 (14) OF STABII | C LIZED KE | G ETENE DIP | 11JE1985 Attorney:HLD MER EMULSION | 85 4522686 Y:HLD Busi SION AND STABILIZED | 11DE1996 Business Unit:PCH IZED | 11JE2002 CH | Owner:Hercules Incorporated |
| 3348 US G 11DE1984 4487884 Case: MASLANKA 6 Attorney:HLD Title:WET-STRENGTH RESINS BASED ON EPIHALOHYDRIN-MODIFIED | US A 6 ENGTH RES | SINS BAS | G SED ON EP | 11DE1984 Attorney:HLD PIHALOHYDRIN- | 4487884) .MODIFIED | 11JE1996 Business Unit:PCH | 27AP2003 CH | Owner:Hercules Incorporated |
| 3351 US D G 20NO1984 4483959 Case: MASLANKA & SPENCE 23 (1-2-7-13 Attorney:CLB Title:SURFACE-MODIFIED LATEX PARTICLES AS SELF-RETAINING | US A & SPENC -MODIFIEI | D CE 23 (1 D LATEX | G 1-2-7-13 PARTICLE | 20NO1984 Attorney:CLE 3S AS SELF-RE | 4483959 3 ETAINING F1 | Dusiness Unit:PCH | 20NO2001 CH | Owner:Hercules Incorporated |
| ### 3362 US G 13AU1985 4535013 ### Case: KUHN 1 #### Title:IMPROVING STRENGTH OF LATEX-BONDED NONWOVEN POLYOLEFIN | US IG STRENC | STH OF I | G .ATEX-BON | 13AU1985 Attorney:JEC VDED NONWOVEN | 4535013 | 13FE1997 Business Unit:TEX .N | 15AU2003 EX | Owner:Hercules Incorporated |

Owner: Hercules Incorporated

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Owner: Hercules Incorporated

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United States Country Hercules Patents World-wide By Date of Report: 13NO2000

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| 3461P US Case: KEIM 47 (46) Title:WET-STRENGTH | US (46) ENGTH RES | 3461P US P G 26FE198 Case: KEIM 47 (46) Title:WET-STRENGTH RESINS BASED ON EPIHALOHYD | 26FE1985 Attorney:HLD | | 26AU1996 23MY2003 Business Unit:PCH | Owner:Hercules Incorporated |
| 3462D Case: KEIM 48 (46-47) Title:PAPER TREATED W | US (46-47) REATED WI | 3462D US D G 27AU199 Case: KEIM 48 (46-47) Attorne Title:PAPER TREATED WITH WET-STRENGTH RESINS | 27AU1985 4 Attorney:HLD TH RESINS BASED | 4537657) 3D ON | 27FE1997 27AP2003 Business Unit:PCH | Owner:Hercules Incorporated |
| 3477 Case: BERTA 6 Title:SULFUR/N | US NONSULFUF | 3477 G 27MY198 Case: BERTA 6 Attorney Title:SULFUR/NONSULFUR CROSSLINKING COMPOSITI | 27MY1986 Attorney:MCS COMPOSITION F | 6 4591617 :MCS ON FOR BLENDS | 27NO1997 14JA2005 Business Unit:RSN OF | Owner:Hercules Incorporated |
| 3488 Case: LEAHY 1 Title:USE OF W | US NATER-DIS | 3488 | φ | 4608123 JLH IN PAPERMAKING AS | 26FE1998 20FE2005 Business Unit:TEX VG AS | Owner:Hercules Incorporated |
| 3489C US Case: MASLANKA 10 (5-7) Title:WET-STRENGTH RESIN | US A 10 (5- ENGTH RES | 3489C US C G 12AU198 Case: MASLANKA 10 (5-7) Attorney Title:WET-STRENGTH RESINS BASED ON EPIHALOHYD | 12AU1986 Attorney:IGS | 6 4605709 :IGS RIN-MODIFIED | 12FE1998 12AU2003 Business Unit:PCH | Owner:Hercules Incorporated |

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| | Owner:Hercules Incorporated | |
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Owner: Hercules Incorporated

310C2003

Owner: Hercules Incorporated

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Business Unit:FFI 01JA1998

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| VIE | Title: USE OF FOAMED ROSIN-BASED SIZE TO ACHIEVE UNIFORM SIZE | AMED ROSI | N-BAS | SED SIZE | TO ACHIEVE | UNIFORM S | IZE |
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| 07 | 3584 | ns | | ט | 01JL1986 | 4598006 | |
| ' 1: | Case: SAND 1 | | | | Attorney: DR | ū | Bus |
| 2 | V Title: IMPREGNATING THERMOPLASTIC POLYMER WITH FRAGRANCE, ETC., | ING THERM | OPLAS | STIC POLY | MER WITH FR | AGRANCE, | ETC., |

United States Country Hercules Patents World-wide By Date of Report: 13NO2000

| | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated | Owner:Hercules Incorporated |
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| a t | 462646 NT FOR | 8 4732936 :JPL ETHYLSTYRENE] | 4605694 LLITATE | 4701517 IP USEFUL AS | 4678684 GRANCE, |
| Grant Dt | 02DE1986 Attorney:JEC H CONTROL AGE | 22MR1988 Attorney:JPL UENE [P-METHY | 12AU1986 Attorney:WEP TION OF TRIME | 200C1987 4701517 Attorney:JWP TERPOLYMERS, USEFUL AS | - |
| | FIN AS A QUENC | 75 3607C US C G 22MR1988 O Case: HOLOHAN 3 (1-2) Attorney: Title:ALPHA-METHYLSTYRENE/P-VINYLTOLUENE [P-MET | 3619 Case: WALKER(JF) 8 Attorney Title:PVC PLASTICIZED WITH A COMBINATION OF T | G NOL/TERPENE | 3630 US M G 07JL198 Case: SAND 2 (1) Title:IMPREGNATING THERMOPLASTIC POLYMER WITH |
| Ctry | US STTER 1 CHED POLYOLE | US IAN 3 (1-2) \-METHYLSTYR | US SR(JF) 8 PLASTICIZED | 3625 Case: DAUGHENBAUGH(NE) 1 Title:VINYL AROMATIC/PHE | US 2 (1) GNATING THE |
| Docket No. | 3606 7 Case: HOSTE 7 Title:BRANC | 2007 3607C 100 Title:ALPHA | 3619 Case: WALKER(JF) 8 Title:PVC PLASTICI | 3625 Case: DAUGH Title:VINYL | 3630 Case: SAND 2 (1) Title:IMPREGNAT1 |

| | Owner:Hercules Incorporated | | |
|---------------|-----------------------------|------------------------------------------------------------------|--|
| 24MR2006 | EX | | |
| 30NO1999 | Business Unit:TEX | FILM | |
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| 31MY1988 | Attorney: WSA | Y ORIENTED POL | |
| ט | | OF BIAXIALL | |
| SU | Case: BEEHLER(DC) 1 | Title:LAMINATED PRODUCT OF BIAXIALLY ORIENTED POLYPROPYLENE FILM | |
| a 3632 | Case: | Title: | |

| | Owner:Hercules Incorporated | • | | | Owner: Hercules Incorporated | 4 |
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| OLYMER LATEX | ტ | | Title: HYDROPHOBICALLY MODIFIED HYDROXYETHYL |
| NG ACRYLIC F | ns | G(DH) 4 | OPHOBICALLY |
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