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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3777216

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|------------------------------|--|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the CONVEYANCE TYPE previously recorded on Reel 032095 Frame 0701. Assignor(s) hereby confirms the RECORDING OF THIS CORRECTIVE ASSIGNMENT TO CORRECT THE CONVEYANCE TYPE FROM ASSIGNMENT TO SECURITY INTEREST. |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| HEXATECH, INC. | 01/15/2014 |

RECEIVING PARTY DATA

| | |
|--------------------------|-------------------------------------|
| Name: | INTERSOUTH PARTNERS VI, L.P. |
| Street Address: | 102 CITY HALL PLAZA, SUITE 200 |
| City: | DURHAM |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27701 |
| Name: | H.I.G. VENTURE PARTNERS II, L.P. |
| Street Address: | 1001 BRICKELL BAY DR. |
| City: | MIAMI |
| State/Country: | FLORIDA |
| Postal Code: | 33131 |
| Name: | H.I.G. VENTURES-HEXATECH, LLC |
| Street Address: | 1001 BRICKELL BAY DR. |
| City: | MIAMI |
| State/Country: | FLORIDA |
| Postal Code: | 33131 |
| Name: | SEVIN ROSEN FUND IX L.P. |
| Street Address: | TWO GALLERIA TOWER |
| Internal Address: | 13455 NOEL ROAD, SUITE 1670 |
| City: | DALLAS |
| State/Country: | TEXAS |
| Postal Code: | 75240 |
| Name: | SEVIN ROSEN IX AFFILIATES FUND L.P. |
| Street Address: | TWO GALLERIA TOWER |
| Internal Address: | 13455 NOEL ROAD, SUITE 1670 |
| City: | DALLAS |

| | |
|------------------------|-------------------------------|
| State/Country: | TEXAS |
| Postal Code: | 75240 |
| Name: | MCNC ENTERPRISE FUND, L.P. |
| Street Address: | 4505 EMPEROR BLVD., SUITE 130 |
| City: | DURHAM |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27703 |

PROPERTY NUMBERS Total: 11

| Property Type | Number |
|----------------------------|---------------|
| Patent Number: | 8734965 |
| Patent Number: | 8414677 |
| Patent Number: | 8974726 |
| Patent Number: | 8766274 |
| Patent Number: | 7815970 |
| Patent Number: | 7632454 |
| Patent Number: | 7678195 |
| Patent Number: | 7915178 |
| Patent Number: | 8148802 |
| Application Number: | 14422888 |
| Application Number: | 12997963 |

CORRESPONDENCE DATA

Fax Number: (919)781-4865

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 9197914000

Email: ip@wyrick.com

Correspondent Name: DEVON E. WHITE

Address Line 1: 4101 LAKE BOONE TRAIL

Address Line 2: SUITE 300

Address Line 4: RALEIGH, NORTH CAROLINA 27607

| | |
|--------------------------------|--|
| ATTORNEY DOCKET NUMBER: | 16041.018 |
| NAME OF SUBMITTER: | DEVON E. WHITE |
| SIGNATURE: | /DEW/ |
| DATE SIGNED: | 03/10/2016 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

Total Attachments: 13

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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

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|------------------------------|-------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HEXATECH, INC. | 01/15/2014 |
| RECEIVING PARTY DATA | |
| Name: | INTERSOUTH PARTNERS VI, L.P. |
| Street Address: | 102 CITY HALL PLAZA, SUITE 200 |
| City: | DURHAM |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27701 |
| Name: | H.I.G. VENTURE PARTNERS II, L.P. |
| Street Address: | 1001 BRICKELL BAY DR. |
| City: | MIAMI |
| State/Country: | FLORIDA |
| Postal Code: | 33131 |
| Name: | H.I.G. VENTURES-HEXATECH, LLC |
| Street Address: | 1001 BRICKELL BAY DR. |
| City: | MIAMI |
| State/Country: | FLORIDA |
| Postal Code: | 33131 |
| Name: | SEVIN ROSEN FUND IX L.P. |
| Street Address: | TWO GALLERIA TOWER |
| Internal Address: | 13455 NOEL ROAD, SUITE 1670 |
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| State/Country: | TEXAS |

Postal Code: 75240

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| Name: | MCNC ENTERPRISE FUND, L.P. |
| Street Address: | 4505 EMPEROR BLVD., SUITE 130 |
| City: | DURHAM |
| State/Country: | NORTH CAROLINA |
| Postal Code: | 27703 |

PROPERTY NUMBERS Total: 13

| Property Type | Number |
|----------------------|--------------|
| Patent Number : | 7815970 |
| Application Number : | 12895018 |
| Patent Number : | 7632454 |
| Application Number : | 12556851 |
| Patent Number : | 7678195 |
| Patent Number : | 7915178 |
| Patent Number : | 8148802 |
| Application Number : | 13185544 |
| Application Number : | 13324261 |
| PCT Number : | US2012052022 |
| Application Number : | 61781991 |
| Application Number : | 61758053 |
| PCT Number : | US2009250626 |

CORRESPONDENCE DATA

Fax Number : (919)781-4865
 Email : pconnaghan@wyrick.com
 Correspondence will be sent via US Mail when the email attempt is unsuccessful.
 Correspondent Name : PAGE CONNAGHAN
 Address Line 1 : WYRICK ROBBINS, 4101 LAKE BOONE TRAIL
 Address Line 2 : SUITE 300
 Address Line 4 : RALEIGH, NORTH CAROLINA 27607

NAME OF SUBMITTER: PAGE CONNAGHAN

Signature: /Page Connaghan/

Date: 01/30/2014

Total Attachments: 10

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RECEIPT INFORMATION

EPASID: PAT2706250
Receipt Date: 01/30/2014

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "*Agreement*"), dated as of January 15, 2014, is hereby entered into by and among HexaTech, Inc., a Delaware corporation (the "*Borrower*"), the purchasers set forth on Exhibit A to that certain Note Purchase Agreement dated as of even date herewith (the "*Purchase Agreement*") (each, a "*Lender*" and sometimes collectively referred to herein as the "*Lenders*"), and Intersouth Partners VI, L.P., as the representative of the Lenders (the "*Lender Representative*").

RECITALS:

WHEREAS, the Lenders will make loans to Borrower (collectively, the "*Loan*"), which Loan shall be evidenced by Secured Convertible Promissory Notes (the "*Notes*") issued on or after the date hereof pursuant to the Purchase Agreement between the Lenders and the Borrower, but only if Borrower grants the Lenders a security interest in its copyrights, trademarks and patents and other collateral described in that certain Security Agreement between Borrower and the Lenders (the "*Collateral*"), executed in connection with the Loan and dated as of the date hereof (the "*Security Agreement*"); and

WHEREAS, Borrower has granted the Lenders a security interest in its presently existing or later acquired Collateral;

NOW, THEREFORE, for good and otherwise valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

AGREEMENT

1. Secured Obligations. This Agreement is given to secure the due and punctual payment of the principal of and interest on the Notes issued pursuant to the Purchase Agreement and the due and punctual performance of all other obligations under the Loan Documents (as defined in the Security Agreement) now existing and hereafter arising, including future advances (and additional Notes issued pursuant to the Purchase Agreement in respect thereof) made pursuant to the Purchase Agreement, together with any extensions and renewals of the foregoing obligations and reasonable attorneys' fees if collected by or through an attorney-at-law (collectively the "*Secured Obligations*"); provided, however, that "*Secured Obligations*" shall not include any obligations of Borrower to any Lender in Lender's capacity, as a holder of any of Borrower's capital stock.

2. Security Interest. As security for the due and punctual payment and performance by Borrower of the Secured Obligations, Borrower hereby grants the Lenders a security interest (which shall be subject and subordinate to the Permitted Liens, as defined in the Security Agreement) in all right, title and interest in its Intellectual Property (as defined below). As used herein, the term "*Intellectual Property*" shall include:

(a) All copyrights, trademarks, and patents of Borrower, including, without limitation, the copyrights, trademarks, and patents listed on Schedule A attached hereto, all amendments, renewals, extensions relating thereto, and all licenses or other rights to use the foregoing and all license fees and royalties from such use. With respect to trademarks, the term

Intellectual Property includes the entire goodwill of Grantor's business connected with the use of and symbolized by such trademarks;

(b) Any trade secrets and any intellectual property rights in computer software and computer software products now or later existing, created, acquired or held by Borrower;

(c) All design rights which may be available to Borrower now or later created, acquired or held by Borrower;

(d) Any claims for damages (past, present or future) for infringement of any of the rights above, with the right, but not the obligation, to sue and collect damages for use or infringement of the intellectual property rights above; and

(e) All proceeds and products of any of the foregoing, including any and all insurance, indemnity or warranty payments, license royalties, proceeds of infringement suits, the right to sue for past, present and future infringements rights throughout the world, and all re-issues, divisions continuations, renewals, extensions and continuations-in-part with respect to any of the foregoing.

3. Term of Agreement. Borrower acknowledges and agrees that the number and amount of the Secured Obligations may fluctuate from time to time hereafter. Borrower expressly agrees that this Agreement and the security interest in the Intellectual Property conveyed to the Lenders hereunder shall remain valid and in full force and effect, notwithstanding any such fluctuations and future payments. This Agreement shall terminate, and each Lender shall release its security interest in the Intellectual Property and shall execute and deliver to Borrower all termination statements and similar documents which Borrower shall reasonably request to evidence such termination, only upon the earlier to occur of (a) the payment in full by or on behalf of Borrower of all of the then outstanding Notes issued pursuant to the Purchase Agreement and all other obligations of Borrower pursuant to any of the Loan Documents, or (b) the conversion of the full amounts then outstanding under the Notes into shares of the Borrower's capital stock pursuant to the terms of such Notes.

4. Security Agreement. This security interest is granted hereunder in conjunction with the security interest in the Collateral granted under the Security Agreement. The Lenders' rights and remedies in the Intellectual Property granted hereunder are in addition to those in the Purchase Agreement, the Security Agreement and other documents related thereto, and are in addition to those available at law or in equity. The Lenders' rights, powers and remedies herein are cumulative with every right, power or remedy provided in the Security Agreement. The Lenders' exercise of their rights, powers or remedies in this Agreement, the Purchase Agreement, the Security Agreement or any other documents related thereto does not preclude the simultaneous or later exercise of any or all other rights, powers or remedies.

5. Amendment. This Agreement may be amended only in a writing signed by both Borrower and the Lender Representative, and any amendment so effected shall be binding upon each of the Lenders; provided, however, that any such amendment or waiver that disproportionately affects any of the holders of the then-outstanding Notes shall require the written consent of all such disproportionately affected holders. No delay or failure on the part of

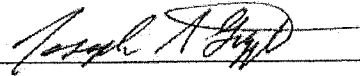
any Lender in the exercise of any right, power or privilege under this Agreement shall impair any such right, power or privilege or be construed as a waiver of any default or any acquiescence therein. No single or partial exercise of such right, power or privilege shall preclude the further exercise of such right, power or privilege or the exercise of any other right, power or privilege. No waiver shall be valid against the Lenders unless made in writing and signed by the Lender Representative, and then only to the extent expressly specified therein. Borrower hereby waives presentment and notice of dishonor and protest of all instruments included or evidencing the liability of Borrower in respect to the Secured Obligations or the Collateral and any and all notices and demands whatsoever, whether or not relating to such instruments, except as otherwise provided in such instruments. Notwithstanding the foregoing, Borrower may amend **Schedule A** from time-to-time as necessary to add any after-acquired Intellectual Property, by filing a Confirmatory Intellectual Property Security Agreement ("Confirmatory Security Agreement"), in a form substantially similar to **Exhibit A** to this Agreement, in the United States Patent and Trademark Office or the United States Copyright Office, as applicable. A copy of any such Confirmatory Security Agreement filed by Borrower shall be provided to Lender Representative.

[Signature pages follow.]

This Intellectual Property Security Agreement is hereby executed as of the year and date first above written.

BORROWER:

HEXATECH, INC.

By: 
Name: _____
Title: _____

LENDER REPRESENTATIVE:

INTERSOUTH PARTNERS VI, L.P.

By: Intersouth Associates VI, L.P.,
Its General Partner

By: _____
Name: _____
Title: _____

LENDERS:

INTERSOUTH PARTNERS VI, L.P.

By: Intersouth Associates VI, L.P.,
Its General Partner

By: _____
Name: _____
Title: _____

H.I.G. VENTURE PARTNERS II, L.P.

By: _____
Name: _____
Title: _____

H.I.G. VENTURES – HEXATECH, LLC

By: _____
Name: _____
Title: _____

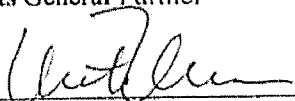
This Intellectual Property Security Agreement is hereby executed as of the year and date first above written.

BORROWER: **HEXATECH, INC.**

By: _____
Name: _____
Title: _____

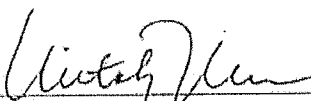
LENDER REPRESENTATIVE: **INTERSOUTH PARTNERS VI, L.P.**

By: Intersouth Associates VI, L.P.,
Its General Partner

By: 
Name: Mitch Mumma
Title: Member Manager

LENDERS: **INTERSOUTH PARTNERS VI, L.P.**

By: Intersouth Associates VI, L.P.,
Its General Partner

By: 
Name: Mitch Mumma
Title: Member Manager

H.I.G. VENTURE PARTNERS II, L.P.

By: _____
Name: _____
Title: _____

H.I.G. VENTURES – HEXATECH, LLC

By: _____
Name: _____
Title: _____

[Signature Page to Intellectual Property Security Agreement]

This Intellectual Property Security Agreement is hereby executed as of the year and date first above written.

BORROWER:

HEXATECH, INC.

By: _____
Name: _____
Title: _____

LENDER REPRESENTATIVE:

INTERSOUTH PARTNERS VI, L.P.

By: Intersouth Associates VI, L.P.,
Its General Partner

By: _____
Name: _____
Title: _____

LENDERS:

INTERSOUTH PARTNERS VI, L.P.

By: Intersouth Associates VI, L.P.,
Its General Partner

By: _____
Name: _____
Title: _____

H.I.G. VENTURE PARTNERS-H, L.P.

By: _____
Name: **Richard Siegel**
Title: **Authorized Signatory**

H.I.G. VENTURES - HEXATECH, LLC

By: _____
Name: **Richard Siegel**
Title: **Authorized Signatory**

[Signature Page to Intellectual Property Security Agreement]

MCNC ENTERPRISE FUND, L.P.

By: John W Cambier
Name: John Cambier
CFO & Treasurer, NC IDEA
Sole Member and Manager, MCNC Ventures

SEVIN ROSEN IX AFFILIATES FUND L.P.

By: SRB ASSOCIATES IX L.P.,
Its General Partner

By: SRB ASSOCIATES IX L.L.C.
Its General Partner

By: _____
Member
John V. Jagers
Print Name

SEVIN ROSEN IX AFFILIATES FUND L.P.

By: SRB ASSOCIATES IX L.P.,
Its General Partner

By: SRB ASSOCIATES IX L.L.C.
Its General Partner

By: _____
Member
John V. Jagers
Print Name

[Signature Page to Intellectual Property Security Agreement]

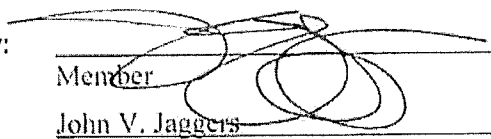
MCNC ENTERPRISE FUND, L.P.

By: _____
Name: _____

SEVIN ROSEN FUND IX L.P.

By: SRB ASSOCIATES IX L.P.,
Its General Partner

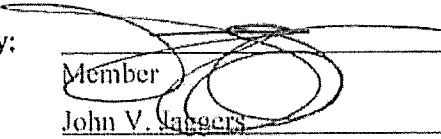
By: SRB ASSOCIATES IX L.L.C.
Its General Partner

By: _____
Member

John V. Jagers
Print Name

SEVIN ROSEN IX AFFILIATES FUND L.P.

By: SRB ASSOCIATES IX L.P.,
Its General Partner

By: SRB ASSOCIATES IX L.L.C.
Its General Partner

By: _____
Member

John V. Jagers
Print Name

SCHEDULE A

INTELLECTUAL PROPERTY

1. Copyrights/Software:

| Software Program / Description | Registration/ Application Number | Registration/ Application Date |
|--------------------------------|--|--------------------------------------|
| NONE | | |

2. Patents and patent applications

| Title / Description | Inventor Names(s) | Registration/ Application Number | Registration/ Application Date |
|---|--|--|--|
| Controlled Polarity Group III-Nitride Films and Methods of Preparing Such Films | Raoul Schlessler Vladimir Noveski Ramon R. Collazo | US 11/382,806 Patent No. 7,815,970 | Filed 5/11/2006 Issued 10/6/2010 |
| | | US 12/895,018 | Filed 9/30/2010 |
| | | EP 05852374.7 | Filed 11/29/2005 |
| | | JP 2008-511103 | Filed 11/29/2005 |
| Dense Shaped Articles Constructed of a Refractory Material and Methods of Preparing Such Articles Raoul Schlessler | Raoul Schlessler Rafael F. Dalmau Vladimir Noveski Zlatko Sitar | US 11/398,270 Patent No. 7,632,454 | Filed 4/5/2006 Issued 12/15/2009 |
| | | US 12/556,851 | Filed 9/10/2009 |
| | | EP 06758277.5 | Granted 4/5/2006 |
| | | JP 2008-505509 | Filed 4/5/2006 |
| | | EP 11167505.4 | Granted 11/21/2012 |
| Seeded Growth Process for Preparing Aluminum Nitride Single Crystals | Raoul Schlessler Vladimir Noveski Zlatko Sitar | US 11/399,713 Patent No. 7,678,195 | Filed 4/6/2006 Issued 3/16/2010 |
| | | EP 06749479.9 | Declaration to grant 02/27/2013 |
| | | JP 2008-505555 | Filed 4/6/2006 |

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|--|--|--|--|
| Surface Preparation and Passivation of AlN Wafers for Epitaxial Thin Film Growth | Ramon Collazo Zlatko Sitar Rafael Dalmau | US 12/182,475 Patent No. 7,915,178 | Filed 7/30/2008 Issued 3/29/2011 |
| | | US 13/028,505 Patent No. 8,148,802 | Filed 2/16/2011 Issued 4/3/2012 |
| | | EP 09790902.2 | Filed 7/29/2009 |
| | | JP 2011-521263 | Filed 7/29/2009 |

| | | | |
|--|---|-----------------------|-------------------------------------|
| Liquid Sanitation Device | Raoul Schlessler James M. LeMunyon | US 2009/0250626 | Filed 4/3/2009 Pub. Oct. 8, 2009 |
| Polycrystalline AlN Material and Method of Production Thereof | Baxter Moody Rafael Dalmau David Henshall Raoul Schlessler | US 13/185,544 | Filed 7/19/2011 |
| Thermal Expansion Engineering for Polycrystalline AlN Sintered Bodies | Spalding Craft Baxter Moody Rafael Dalmau Raoul Schlessler | US 13/324,261 | Filed 12/13/2011 |
| Highly Transparent Aluminum Nitride Single Crystalline Layers and Devices Made Therefrom | Joint Patent between: - HexaTech, Inc. - North Carolina State University - Tokuyama Corp. (Japan) - Tokyo University of Agriculture and Technology (TUAT) | PCT/US2012/05 2022 | Filed 8/23/2012 |
| Optoelectric Devices Incorporating Single Crystalline Aluminum Nitride Substrate | Jinqiao Xie Baxter Moody Seiji Mita | 61/758,053 | Provisional filed 01/29/2013 |
| Power Semiconductor Incorporating Single Crystalline Aluminum Nitride Substrates | Baxter Moody Seiji Mita Jinqiao Xie | 61/781,991 | Provisional filed 03/14/2013 |

3. Trademarks and trademark applications

| Title / Description | Registration/ Application Number | Registration/ Application Date |
|---------------------|--|--------------------------------------|
| NONE | | |