

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3392830

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
THE NANOSTEEL COMPANY, INC.	06/04/2015

RECEIVING PARTY DATA

Name:	HORIZON TECHNOLOGY FINANCE CORPORATION
Street Address:	312 FARMINGTON AVENUE
City:	FARMINGTON
State/Country:	CONNECTICUT
Postal Code:	06032

PROPERTY NUMBERS Total: 49

Property Type	Number
Patent Number:	7803223
Patent Number:	7205032
Patent Number:	7540403
Patent Number:	8070894
Patent Number:	7186306
Patent Number:	7267844
Patent Number:	7309807
Patent Number:	7482065
Patent Number:	8795448
Patent Number:	7449074
Patent Number:	7553382
Patent Number:	8704134
Patent Number:	7935198
Patent Number:	8133333
Patent Number:	8535764
Patent Number:	8062436
Patent Number:	8673402
Patent Number:	8317949
Patent Number:	8206520
Patent Number:	8679267

PATENT

Property Type	Number
Patent Number:	8882941
Patent Number:	8293036
Patent Number:	8356590
Patent Number:	8658934
Patent Number:	8858739
Patent Number:	8474541
Patent Number:	8689777
Patent Number:	8497027
Patent Number:	8807197
Patent Number:	8986472
Patent Number:	8474499
Patent Number:	8257512
Patent Number:	8419869
Patent Number:	8641840
Application Number:	13118035
Application Number:	13603198
Application Number:	13942340
Application Number:	14151310
Application Number:	14188567
Application Number:	14505175
Application Number:	14575301
Application Number:	14525859
Application Number:	14616296
Application Number:	14624076
Application Number:	14715164
Application Number:	62054728
Application Number:	62064903
Application Number:	62111395
Application Number:	62146048

CORRESPONDENCE DATA

Fax Number: (860)676-8655

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.

Email: lucia@horizontechfinance.com

Correspondent Name: HORIZON TECHNOLOGY FINANCE

Address Line 1: 312 FARMINGTON AVENUE

Address Line 4: FARMINGTON, CONNECTICUT 06032

NAME OF SUBMITTER:	ERIC S. DARMOFAL
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SIGNATURE:	/s/Eric S. Darmofal
DATE SIGNED:	06/11/2015
Total Attachments: 5 source=5 Grant of Security Interest - Patents (6-4-15) (NanoSteel)#page1.tif source=5 Grant of Security Interest - Patents (6-4-15) (NanoSteel)#page2.tif source=5 Grant of Security Interest - Patents (6-4-15) (NanoSteel)#page3.tif source=5 Grant of Security Interest - Patents (6-4-15) (NanoSteel)#page4.tif source=5 Grant of Security Interest - Patents (6-4-15) (NanoSteel)#page5.tif	

GRANT OF SECURITY INTEREST
PATENTS

THIS GRANT OF SECURITY INTEREST, dated as of June 4, 2015, is executed by THE NANOSTEEL COMPANY, INC., a Delaware corporation with an address of 272 West Exchange Street, Suite 300, Providence, Rhode Island 02903 ("Debtor"), in favor of HORIZON TECHNOLOGY FINANCE CORPORATION, a Delaware corporation with an address of 312 Farmington Avenue, Farmington, Connecticut 06032 ("Secured Party").

A. Pursuant to a certain Venture Loan and Security Agreement, dated on or about the date hereof (the "Agreement") by and between Debtor and the Secured Party, the Secured Party has agreed to extend credit to Debtor upon the terms and subject to the conditions set forth therein;

B. Debtor owns the patents and/or applications for patents, more particularly described on Schedules 1-A and 1-B annexed hereto as part hereof (collectively, the "Patents");


C. Pursuant to the Agreement, Debtor has granted to Secured Party a security interest in all right, title and interest of Debtor in and to the Patents, together with any reissue, continuation, continuation-in-part or extension thereof, and all proceeds thereof, including any and all causes of action which may exist by reason of infringement thereof for the full term of the Patents (the "Collateral"), to secure the prompt payment, performance and observance of the Obligations (as defined in the Agreement);

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Debtor does hereby further grant to Secured Party a security interest in the Collateral to secure the prompt payment, performance and observance of the Obligations.

Debtor does hereby further acknowledge and affirm that the rights and remedies of Secured Party with respect to the security interest in the Collateral granted hereby are more fully set forth in the Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

IN WITNESS WHEREOF, Debtor has caused this instrument to be executed as of the day and year first written above.

THE NANOSTEEL COMPANY, INC.

By: 
Name: *Ellen W. Bossert*
Title: *Corporate Secretary*

SCHEDULE 1-A

Patent	Owner	Registration Number	Registration Date
Formation of Metallic Thermal Barrier Alloys	The NanoSteel Company, Inc.	7803223	28-Sep-2010
Controlled Thermal Expansion of Welds to Enhance Toughness	The NanoSteel Company, Inc.	7205032	17-Apr-2007
Controlled Thermal Expansion of Welds to Enhance Toughness	The NanoSteel Company, Inc.	7540403	02-Jun-2009
Highly Active Liquid Melts Used to Form Coatings	The NanoSteel Company, Inc.	8070894	06-Dec-2011
Method of Modifying Iron Based Glasses to Increase Crystallization Temperature Without Changing Melting Temperature	The NanoSteel Company, Inc.	7186306	06-Mar-2007
Improved Properties Of Amorphous/Partially Crystalline Coatings	The NanoSteel Company, Inc.	7267844	11-Sep-2007
Method of Containing Radioactive Contamination	The NanoSteel Company, Inc.	7309807	18-Dec-2007
Layered Metallic Material Formed From Iron Based Glass Alloys	The NanoSteel Company, Inc.	7482065	27-Jan-2009
Wear Resistant Materials	The NanoSteel Company, Inc.	8,795,448	05-Aug-2014
Nano-Crystalline Steel Sheet	The NanoSteel Company, Inc.	7449074	11-Nov-2008
Improved Glass Stability, Glass Forming Ability, and Microstructural Refinement (CIP) High Hardness/High Wear Resistant Iron Based Weld Overlay Materials	The NanoSteel Company, Inc.	7,553,382	30-Jun-2009
Improved Glass Stability, Glass Forming Ability, and Microstructural Refinement (CIP) High Hardness/High Wear Resistant Iron Based Weld Overlay Materials	The NanoSteel Company, Inc.	8,704,134	22-Apr-2014
Improved Glass Stability, Glass Forming Ability, and Microstructural Refinement (CIP) High Hardness/High Wear Resistant Iron Based Weld Overlay Materials	The NanoSteel Company, Inc.	7935198	03-May-2011
Improved Processing Method For The Production Of Amorphous / Nanoscale/ Near	The NanoSteel Company, Inc.	8,133,333	13-Mar-2012

SCHEDULE 1-A

Nanoscale Steel Sheet

Protective Coating For Concrete Delivery System Components	The NanoSteel Company, Inc.	8,535,764	17-Sep-2013
TENSILE ELONGATION OF NEAR METALLIC GLASS ALLOYS	The NanoSteel Company, Inc.	8,062,436	22-Nov-2011
Spray Clad Wear Plate	The NanoSteel Company, Inc.	8,673,402	18-Mar-2014
Ductile Metallic Glasses	The NanoSteel Company, Inc.	8,317,949	27-Nov-2012
Ductile Metallic Glasses in Ribbon Form	The NanoSteel Company, Inc.	8,206,520	26-Jun-2012
Ductile Metallic Glasses in Ribbon Form	The NanoSteel Company, Inc.	8,679,267	25-Mar-2014
Mechanism of Structural Formation For Metallic Glass Based Composites Exhibiting Ductility	The NanoSteel Company, Inc.	8,882,941	11-Nov-2014
Exploitation Of Deformation Mechanisms For Industrial Usage In Thin Product Forms	The NanoSteel Company, Inc.	8,293,036	23-Oct-2012
Method and Product for Cutting Materials	The NanoSteel Company, Inc.	8,356,590	22-Jan-2013
Feedstock Powder For Production of High Hardness Overlays	The NanoSteel Company, Inc.	8,658,934	25-Feb-2014
Process For Continuous Production Of Ductile Microwires From Glass Forming Systems	The NanoSteel Company, Inc.	8,858,739	14-Oct-2014
Glass Forming Hardbanding Material	The NanoSteel Company, Inc.	8,474,541	02-Jul-2013
Wire and Methodology for Cutting Materials With Wire	The NanoSteel Company, Inc.	8,689,777	08-Apr-2014
Utilization of Amorphous Steel Sheets In Honeycomb Structures	The NanoSteel Company, Inc.	8,497,027	30-Jul-2013
Utilization of Carbon Dioxide And/Or Carbon Monoxide Gases in Processing Metallic Glass Compositions	The NanoSteel Company, Inc.	8,807,197	19-Aug-2014
Glassy Nano-Materials	The NanoSteel Company, Inc.	8,986,472	24-Mar-2015
PUNCTURE RESISTANT TIRE	The NanoSteel Company, Inc.	8,474,499	02-Jul-2013
Classes of Modal Structured Steel With Static Refinement and Dynamic Strengthening	The NanoSteel Company, Inc.	8,257,512	04-Sep-2012

SCHEDULE 1-A

New Classes of Non-Stainless Steels With High Strength And High Ductility	The NanoSteel Company, Inc.	8,419,869	16-Apr-2013
New Classes of Non-Stainless Steels With High Strength And High Ductility	The NanoSteel Company, Inc.	8,641,840	04-Feb-2014

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SCHEDULE 1-B

Patent Application	Owner	Application Number	Application Date
Alloys Exhibiting Spinodal Glass Matrix Microconstituents Structure And Deformation Mechanisms	The NanoSteel Company, Inc.	13/118,035	27-May-2011
Glassy Metal Body Armor	The NanoSteel Company, Inc.	13/603,198	04-Sep-2012
Glassy Metal Fiber Metal Laminate	The NanoSteel Company, Inc.	13/942,340	15-Jul-2013
New Classes of Steels For Tubular Products	The NanoSteel Company, Inc.	14/151,310	09-Jan-2014
New Class of Warm Forming Advanced High Strength Steel	The NanoSteel Company, Inc.	14/188,567	24-Feb-2014
Recrystallization, Refinement, and Strengthening Mechanisms For Production Of Advanced High Strength Metal Alloys	The NanoSteel Company, Inc.	14/505,175	02-Oct-2014
Recrystallization, Refinement, and Strengthening Mechanisms For Production Of Advanced High Strength Metal Alloys	The NanoSteel Company, Inc.	14/575,301	18-Dec-2014
Metal Steel Production by Slab Casting	The NanoSteel Company, Inc.	14/525,859	28-Oct-2014
Metal Steel Production by Slab Casting	The NanoSteel Company, Inc.	14/616,296	06-Feb-2015
Shot Material and Shot Peening Method	The NanoSteel Company, Inc.	14/624,076	17-Feb-2015
Layered Construction of Metallic Materials	The NanoSteel Company, Inc.	14/715,164	18-May-2015
High Ductility Steel Alloys with New Mixed Microconstituent Structure	The NanoSteel Company, Inc.	62/054,728	24-Sep-2014
High Ductility Steel Alloys with New Mixed Microconstituent Structure	The NanoSteel Company, Inc.	62/064,903	16-Oct-2014
Infiltrated Ferrous Materials	The NanoSteel Company, Inc.	62/111,395	03-Feb-2015
Improved Edge Formability In Metallic Alloys	The NanoSteel Company, Inc.	62/146,048	10-Apr-2015