

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YUXUAN XIE	07/22/2011
CHEN ZHU	07/22/2011
JULIE M. CAIRNEY	07/25/2011
SIMON P. RINGER	07/26/2011
CHRIS R. KILLMORE	07/12/2011
FRANK BARBARO	07/12/2011
JIM WILLIAMS	07/12/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NUCOR CORPORATION
<b>Street Address:</b>	1915 REXFORD ROAD
<b>City:</b>	CHARLOTTE
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	28211
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16202473
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	213532.00302
<b>NAME OF SUBMITTER:</b>	JOEL S. SONNENBERG
<b>SIGNATURE:</b>	/Joel S. Sonnenberg/
<b>DATE SIGNED:</b>	01/28/2019

**Total Attachments: 3**

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Practitioner's Docket No. 201141.00636

PATENT

For: U.S. Rights and Foreign Rights  
For: U.S. Application  
By: Inventors

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS:**

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hereby sell, assign and transfer to

**ASSIGNEE:**

Nucor Corporation  
1915 Rexford Road  
Charlotte, NC 28211,  
US  
State of Formation: Delaware


and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to any and all improvements which are disclosed in the invention entitled:

**NITRIDING OF NIOBIUM STEEL AND PRODUCT MADE THEREBY**


and which is found in (37 C.F.R. Section 3.21) U.S. Application No. 13/030,170 filed on February 18, 2011, and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNORS further covenant that ASSIGNEE will, upon their request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or their legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 22/07/2011

  
\_\_\_\_\_  
Signature of Yuxuan XIE

Date: 22/07/2011

  
\_\_\_\_\_  
Signature of Chen ZHU

Date: 25/07/2011

  
\_\_\_\_\_  
Signature of Julie M. CAIRNEY

Date: 2/07/11

  
Signature of Simon P. RINGER

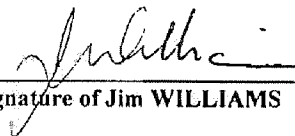
Date: 12/7/2011

  
Signature of Chris R. KILLMORE

Date: 12/7/2011

  
Signature of Frank BARBARO

Date: 12.7.11

  
Signature of Jim WILLIAMS