PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AK STEEL CORPORATION	12/14/2015

RECEIVING PARTY DATA

Name:	AK STEEL PROPERTIES, INC.
Street Address:	9227 CENTRE POINTE DRIVE
City:	WEST CHESTER
State/Country:	ОНЮ
Postal Code:	45069

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6739384

CORRESPONDENCE DATA

Fax Number: (513)651-6981

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.

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ATTORNEY DOCKET NUMBER:	1606001/.374644
NAME OF SUBMITTER:	ANN G. SCHOEN
SIGNATURE:	/Ann G. Schoen/
DATE SIGNED:	12/17/2015

Total Attachments: 3 source=AK 020#page1.tif source=AK 020#page2.tif source=AK 020#page3.tif

PATENT 503616228 REEL: 037315 FRAME: 0303

ASSIGNMENT

The undersigned (hereinafter "Assignor") of the address indicated below is the owner of rights in certain invention(s) and embodiment(s) thereof (hereinafter collectively the "Invention") described in a United States Patent Application Serial Number 10/243,020, filed on September 13, 2002 titled METHOD OF CONTINUOUSLY CASTING ELECTRICAL STEEL STRIP WITH CONTROLLED SPRAY COOLING (hereinafter the "Application").

AK Steel Properties, Inc., a corporation having a principal place of business at 9227 Centre Pointe Drive, West Chester, OH 45069, and its successors, assigns, and legal representatives (hereinafter collectively "Assignee") desires to secure the entire right, title and interest in and to the Invention.

For good and valuable consideration, the receipt and adequacy of which is acknowledged, Assignor hereby:

- 1. Sells, assigns and transfers to Assignee the entire right, title and interest in and to the Invention, the Application, any other applications to which the Application claims priority benefit, including but not limited to related provisional applications, any other patent applications based in whole or in part upon the Invention or Application in any country (including Patent Cooperation Treaty, divisional, renewal, substitute, continuation, and continuation-in-part applications), all patents and other forms of intellectual property protection which may be granted thereon (including all reissues, reexaminations, and extensions thereof), and all priority rights appertaining thereto;
- 2. Sells, assigns and transfers to Assignee the entire right to claim the benefit of priority to the Application and to the following applications to which the Application claims priority benefit: Provisional application 60/318,971 filed September 13, 2001;
- 3. Authorizes Assignee to file applications for patents and other forms of intellectual property protection on the Invention in any country in the name of Assignee, or otherwise as Assignee may deem advisable;
- 4. Authorizes and requests the Director of the United States Patent & Trademark Office, and such patent office officials in foreign countries as are duly authorized by their laws to issue patents, to issue any patents on the Invention to Assignee as the owner of the entire right, title, and interest therein or otherwise as Assignee may direct;
- 5. Agrees, without expense to Assignor but without further consideration, to carry out in good faith the intent and purpose of this Assignment by executing all divisional, renewal, substitute, continuation, continuation-in-part, reissue, and all other patent applications based on the Invention; executing all rightful oaths, assignments, powers of attorney and other papers; communicating to Assignee all facts known to Assignor relating to the Invention and the history thereof; and generally, doing everything reasonably possible which Assignee shall consider desirable for aiding in securing, maintaining, and enforcing proper protection for the Invention

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and for vesting title in Assignee to the Invention and all patent applications and patents based on the Invention;

- 6. Represents and warrants that Assignor has the full right to convey to Assignee the entire interest to the Invention, and that Assignor has not executed, and will not execute, any agreement in conflict herewith; and
- 7. Authorizes Frost Brown Todd, LLC to insert in this Assignment the serial number and filing date of the Application or any other information which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this Assignment.

Assignor:			
	AK STEEL CORPORATION		

West Chester, OH 45069

9227 Centre Pointe Drive

By: Full Name:

Joseph C. Alter

Title:

Vice President, General Counsel and Corporate Secretary

STATE OF OHTO) SS:

On this / day of December, 20/5, personally appeared before me Joseph C. Alter, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to on this Assignment, and acknowledged that he executed the same.

Notary Public:

My Commission Expires: June 20,2019

BETTY J. LONGWORTH Notary Public, State of Ohio My Commission Expires 06-20-2019

Date: 12/14/15

Assignee:	
By: Full Name: Title:	AK STEEL PROPERTIES, INC. 9227 Centre Pointe Drive Wext Chester, OH 45069 Date: 0/14/15 President
	BUTLER)ss:
who proved to	day of <u>Peccanber</u> , 20 <u>/5</u> , personally appeared before me Joseph C. Alter, one on the basis of satisfactory evidence to be the person whose name is subscribed to on ont, and acknowledged that he executed the same.
	Notary Public: Belly Inquorth My Commission Expires: June 20,2019

BETTY J. LONGWORTH
Notary Public, State of Ohio
My Commission Expires 06-20-2019

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