

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3551183

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KLEBER A. SERNIK	07/30/2015
ALAERCIO SALVADOR MARTINS VIEIRA	07/30/2015
ADRIANO PORFIRIO RIOS	07/30/2015
DANIEL PALLOS FRIDMAN	07/30/2015
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<b>City:</b>	SAO PAULO, SP
<b>State/Country:</b>	BRAZIL
<b>Postal Code:</b>	04578-910
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14533741
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	1514242.00002 (96101)
<b>NAME OF SUBMITTER:</b>	ALICIA J. CARROLL
<b>SIGNATURE:</b>	/Alicia J. Carroll/
<b>DATE SIGNED:</b>	10/01/2015
<b>Total Attachments: 3</b>	
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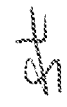
## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Kleber A. Sernik; Alaércio Salvador Martins Vieira; Adriano Porfirio Rios; and Daniel Pallos Fridman (hereinafter referred to as "Assignors"), residing at 129 Unity Square, Greensburg, Pennsylvania 15601; das Avencas Street 75, 38182-194 Araxa, BRAZIL; Thieres Botelho Street 405, 38183-208 Araxa, BRAZIL; and das Camélias Street 62, 38182-186 Araxa, BRAZIL, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in **PROCESSES FOR PRODUCING LOW NITROGEN METALLIC CHROMIUM AND CHROMIUM-CONTAINING ALLOYS AND THE RESULTING PRODUCTS**, set forth in an Application for Letters Patent of the United States (hereinafter referred to as "Application for Letters Patent"), filed on November 5, 2014 as U.S. Application No. 14/533,741; and

**WHEREAS**, CBMM - Companhia Brasileira de Metalurgia e Mineracao, a Corporation organized under and pursuant to the laws of Brazil having its principal place of business at Avenida das Nacoes Unidas, 12901 23rd Floor, Brooklin Novo, 04578-910 Sao Paulo, SP, BRAZIL (hereinafter referred to as "Assignee"), is desirous of receiving the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon.

**NOW, THEREFORE**, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have assigned, transferred and set over, and by these presents do assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and Application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said Application for Letters Patent, and any and all Letters Patent in the United States and all foreign countries throughout the world which may be granted therefor and thereon, and all reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or



terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and Application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to assign and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns that: Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions throughout the world, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise; that any proceeding in connection with said inventions, or said Application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to post-issuance proceedings, is lawful and desirable; and, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following entity the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply

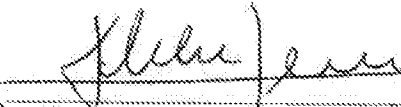
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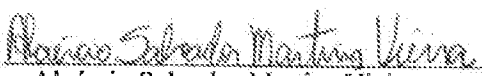
with the rules of the United States Patent and Trademark Office for recordation of this document:


CBMM - Companhia Brasileira de Metalurgia e Mineracao


AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

ASSIGNORS:

Date: July 30th 2015 Signature:   
Kleber A. Sernik

Date: July 30th 2015 Signature:   
Alaércio Salvador Martins Vieira

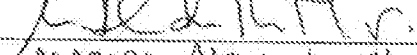
Date: July 30th 2015 Signature:   
Adriano Porfirio Rios

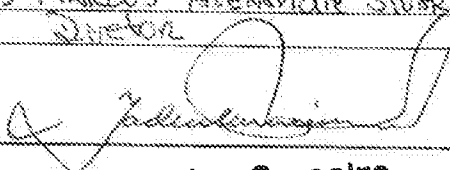
Date: July 30th 2015 Signature:   
Daniel Pallos Fridman

ASSIGNEE:

CBMM - Companhia Brasileira de Metalurgia e Mineracao

Date: July 30th, 2015

By:   
Name: MARCOS ALEXANDRE STUBER NOGUEIRA  
Title: DIRECTOR

  
Tadeu Carneiro  
Director