

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2977228

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNOR'S NAMES previously recorded on Reel 033295 Frame 0831. Assignor(s) hereby confirms the ASSIGNOR'S NAMES.

CONVEYING PARTY DATA

Name	Execution Date
LEONIDIO STEGMILLER	09/24/2013
JOSE ANTONINO ALVES E SILVA REIS	09/23/2013
REINALDO WALMIR DE JESUS	09/23/2013
LILIANE DURANS DE MORAES COSTA	09/05/2013
ANTONIO ALBERTO RIBEIRO FERNANDES	09/24/2013
ERICA DUTRA ALBUQUERQUE	09/24/2013
JEFERSON DA SILVA CORREA	09/24/2013
MAURICIO KUSTER CUNHA	09/24/2013
MARLON CHRISTIAN MARIANELLI BASTOS	09/24/2013
PATRICIA MACHADO BUENO FERNANDES	09/24/2013
POLIANA BELISARIO ZORZAL	09/24/2013

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13890996

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Fax Number: (202)857-6395

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

PATENT

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	035801.00173
NAME OF SUBMITTER:	GIANNA APONTE
SIGNATURE:	/Gianna Aponte/
DATE SIGNED:	08/08/2014

Total Attachments: 5

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Docket No. 024031.00173

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert
ASSIGNEE's
Name(s)
Address(es)]

VALE S.A.
 Avenida Graça Aranha, nº 26 Centro
 Rio de Janeiro RJ 20030-00 Brazil

UNIVERSIDADE FEDERAL DO ESPIRITO SANTO
 AV. Fernando Ferrari, 514, Goiabeiras
 Vitória-ES 29075-910 Brazil

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. §154, to the invention entitled

[Title of
Invention]

[*If the assignment
is being filed
after the filing of the
application, this
section must be
completed]

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on May 9, 2013, Serial No. 13/890,996
(Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)



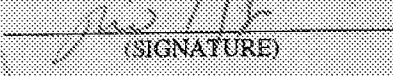

and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof, and any other application claiming priority thereto, for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.


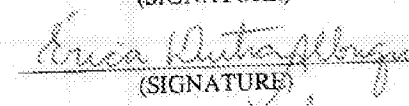

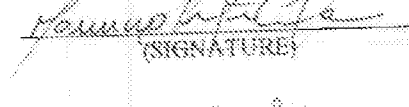
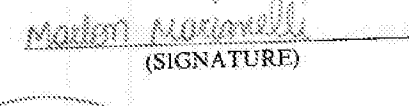
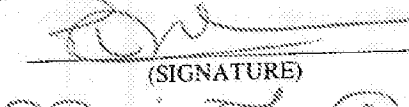
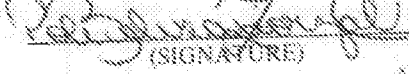
The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s)
of Assignor(s)]

 (SIGNATURE)	Leonidio STEGMILLER (TYPE NAME)	<u>24/09/2013</u> (DATE)
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 (SIGNATURE)	Liliane Durans de Moraes COSTA (TYPE NAME)	<u>05/09/13</u> (DATE)

TECH/1366168.1

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 (SIGNATURE)	Mauricio Kuster CUNHA (TYPE NAME)	24/09/2013 (DATE)
 (SIGNATURE)	Marlon Christian Marianelli BASTOS (TYPE NAME)	24/09/2013 (DATE)
 (SIGNATURE)	Patricia Machado Bueno FERNANDES (TYPE NAME)	24/09/2013 (DATE)
 (SIGNATURE)	Poliana Belisário ZORZAL (TYPE NAME)	24/09/2013 (DATE)



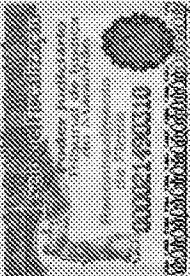
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Reconhecido a firma por AUTENTICIDADE de **WILLYE DARRAS DE
MAYES COSTA.**

002149030

S. LUGUESI, 3 de Setembro de 2012
Em [] de []

[Handwritten signature]



PATENT

REEL: 033513 FRAME: 0463



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NATURE OF CONVEYANCE:	ASSIGNMENT																								
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13890996

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:

035801.00173

NAME OF SUBMITTER:

GLORIA PEREIRA

Signature:

/gloria pereira/

Date:

07/10/2014

Total Attachments: 3

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