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To the Director of the Patent and Trademark
Please record the attached documents or the

Attorney Dkt. No.: 033794/302512

1. Name of conveying party(ies):

Sebastião Curimbaba
Gabriel Warwick Kerr de Paiva Cortes
Guilherme de Paiva Cortes

2. Name and address of receiving party(ies):

Mineração Curimbaba Ltda.
Av. João Pinheiro, 3665
37704-392 Poços de Caldas - MG
Brazil

Additional name(s) of conveying party(ies) attached? Yes ☐ No ☒

3. Nature of conveyance/ Execution Date(s):

Execution Date(s) 01/10/2006

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

Additional name(s) & address(es) attached? Yes ☐ No ☒

4. Application or patent number(s):

A. Patent Application No.(s) 10/554,690

B. Patent No.(s)

☐ This document is being filed together with a new application.Additional numbers attached? Yes ☐ No ☒

5. Name and address of party to whom correspondence concerning document should be mailed:

ALSTON & BIRD LLP
Bank of America Plaza
101 South Tryon Street, Suite 4000
Charlotte, NC 28280-4000

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account
☐ None required (government interest not affecting title)

8. Deposit account number: 16-0605

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Name of Person Signing: Jason P. Cooper
Reg. No. 38,114

October 9, 2006
Date

Total number of pages including cover sheet, attachments, and documents: 4

USPTO Fax Number for New Assignments (571) 273-0140

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

MINERAÇÃO CURIMBABA LTDA.
Av. João Pinheiro, 3665
37704-392 Poços de Caldas - MG
Brazil

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"PROPPANT FOR HYDRAULIC FRACTURING OF OIL AND GAS WELLS AND PROCESS FOR DECREASING OR ELIMINATING "FLOW-BACK" EFFECT IN OIL AND GAS WELLS"**

as set forth in this United States Patent Application

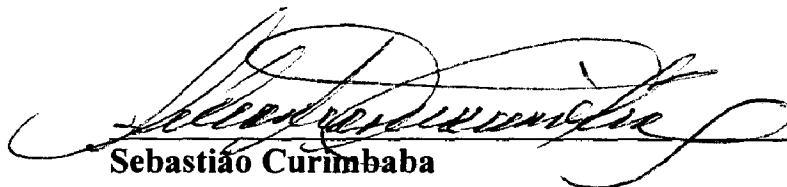
- ☐ executed concurrently herewith
☐ executed on _____
☒ International Application No. PCT/BR2003/000074; filed June 9, 2003
☒ Application claims priority from Brazilian Application No. PI0301036-8, filed April 29, 2003, all applications listed above being hereinafter referred to as the "application(s)";

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in

form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

January 10, 2006
Date


Sebastião Curimbaba

WITNESSES:

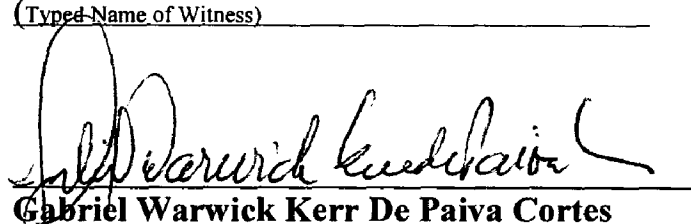


(Typed Name of Witness) BALBINA DE

FÁTIMA BERTOZZI

(Typed Name of Witness) _____

January 10, 2006
Date


Gabriel Warwick Kerr De Paiva Cortes

WITNESSES:

BALBINA DE FÁTIMA BERTOZZI

(Typed Name of Witness) 

(Typed Name of Witness) _____

January 10, 2006
Date

Guilherme De Paiva Cortes
Guilherme De Paiva Cortes

WITNESSES:

Danielle Padua de S. Leão Velloso

(Typed Name of Witness) DANIELE CERDEIRA DE

SOUSA LEÃO VELLOSO

(Typed Name of Witness)

CLT01/4760110v1