

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																					
NATURE OF CONVEYANCE:	ASSIGNMENT																					
CONVEYING PARTY DATA																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr><td>Wilson Kenzo HUZIWARA</td><td>06/03/2008</td></tr> <tr><td>Emanuel Freire SANDES</td><td>06/03/2008</td></tr> <tr><td>Luiz Carlos CASAVECHIA</td><td>06/03/2008</td></tr> <tr><td>Jose Geraldo Furtado RAMOS</td><td>06/03/2008</td></tr> <tr><td>Andrea de Rezende PINHO</td><td>06/03/2008</td></tr> <tr><td>Shelton Rolim CERCAL</td><td>07/09/2008</td></tr> <tr><td>Aurelio Medina DUBOIS</td><td>07/16/2008</td></tr> <tr><td>Paulo Sergio FREIRE</td><td>06/03/2008</td></tr> <tr><td>Nelson PATRICIO JUNIOR</td><td>06/03/2008</td></tr> </tbody> </table>			Name	Execution Date	Wilson Kenzo HUZIWARA	06/03/2008	Emanuel Freire SANDES	06/03/2008	Luiz Carlos CASAVECHIA	06/03/2008	Jose Geraldo Furtado RAMOS	06/03/2008	Andrea de Rezende PINHO	06/03/2008	Shelton Rolim CERCAL	07/09/2008	Aurelio Medina DUBOIS	07/16/2008	Paulo Sergio FREIRE	06/03/2008	Nelson PATRICIO JUNIOR	06/03/2008
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>PETROLEO BRASILEIRO S.A. - PETROBRAS</td> </tr> <tr> <td>Street Address:</td> <td>Av. Republica do Chile n. 65,</td> </tr> <tr> <td>City:</td> <td>Rio de Janeiro</td> </tr> <tr> <td>State/Country:</td> <td>BRAZIL</td> </tr> </table>			Name:	PETROLEO BRASILEIRO S.A. - PETROBRAS	Street Address:	Av. Republica do Chile n. 65,	City:	Rio de Janeiro	State/Country:	BRAZIL												
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CORRESPONDENCE DATA																						
Fax Number: (703)816-4100 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 703-816-4000 Email: teh@nixonvan.com Correspondent Name: NIXON & VANDERHYE, PC Address Line 1: 901 NORTH GLEBE ROAD, 11TH FLOOR Address Line 4: ARLINGTON, VIRGINIA 22203																						
ATTORNEY DOCKET NUMBER:	MNL-2764-204																					

OP \$40.00 12183546

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**PATENT**  
**REEL: 021324 FRAME: 0280**

NAME OF SUBMITTER:

Michelle N. Lester

Total Attachments: 2

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# ASSIGNMENT OF PATENT APPLICATION

(Inventors) **Wilson Kenzo Huziware**  
**Emanuel Freire Sandes**  
**Luiz Carlos Casavechia**  
**José Geraldo Furtado Ramos**  
**Andrea de Rezende Pinho**  
**Shelton Rolim Cercal**  
**Aurélío Medina Dubois**  
**Paulo Sérgio Freire**  
**Nelson Patrício Junior**

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) **PETRÓLEO BRASILEIRO S.A. - PETROBRAS**  
 (Address) **of Av. República do Chile nº. 65, Rio de Janeiro, RJ, BRAZIL**  
 (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of

(Other Countries) **in the invention, and all application(s) for patent and any Letters Patent which may**  
 (Title) **be granted therefor, known as**  
**SYSTEM AND PROCESS FOR THE SEPARATION OF SUSPENSIONS OF SPENT CATALYSTS AND HYDROCARBONS FORMED IN A FLUID CATALYTIC CRACKING UNIT WITH MULTIPLE ASCENDING FLOW REACTION TUBES**  
 (Case No. \_\_\_\_\_)  
 for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on \_\_\_\_\_ or has already filed in \_\_\_\_\_  
 U.S. appln. Serial No. \_\_\_\_\_ filed on \_\_\_\_\_  
 The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

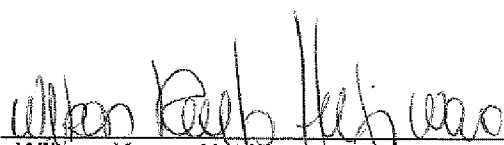
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date 3<sup>rd</sup> June, 2008 Signature of inventor

  
Wilson Kenzo Huziwara

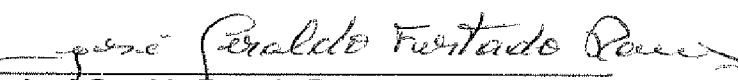
Date June 3<sup>rd</sup>, 2008 Signature of inventor

  
Emanuel Freire Sandes

Date 3<sup>th</sup> JUN 2008 Signature of inventor

  
Luiz Carlos Casavechia


Date 3<sup>rd</sup> JUN 2008 Signature of inventor

  
José Geraldo Furtado Ramos

Date 3<sup>th</sup> JUN 2008 Signature of inventor

  
Andrea de Rezende Pinho


Date July 9<sup>th</sup> 2008 Signature of inventor

  
Shelton Rolim Cercal

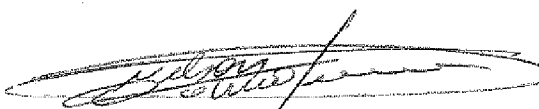
Date July 16<sup>th</sup> 2008 Signature of inventor

  
Aurélio Medina Dubois

Date 3<sup>rd</sup> JUNE, 2008 Signature of inventor

  
Paulo Sergio Freire

Date 3<sup>rd</sup> JUNE, 2008 Signature of inventor

  
Nelson Patrício Junior