

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT4005385

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JAMES J. COLYAR	08/09/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	IFP ENERGIES NOUVELLES	
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<b>City:</b>	RUEIL-MALMAISON CEDEX	
<b>State/Country:</b>	FRANCE	
<b>Postal Code:</b>	92852	
<b>Name:</b>	AXENS	
<b>Street Address:</b>	89 BOULEVARD FRANKLIN ROOSEVELT	
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<b>Postal Code:</b>	92508	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15142159	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(609)454-3957	
<i>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.</i>		
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<b>ATTORNEY DOCKET NUMBER:</b>	AXENS1405	
<b>NAME OF SUBMITTER:</b>	COLLEEN F. MARONEY	
<b>SIGNATURE:</b>	/Colleen F. Maroney/	

<b>DATE SIGNED:</b>	08/12/2016
<b>Total Attachments: 1</b> source=HR1405_Assignment#page1.tif	

## ASSIGNMENT

(1) Whereas, James J. Colyar, a citizen of the United States residing at 219 Burgundy Lane, Newtown, PA 18940 has invented a technology entitled,

NEW GENERATION EBULLATED-BED REACTOR SYSTEM

X for which an Application for United States Letters Patent has been executed by me on April 4, 2016.

AND WHEREAS, IFP Energies nouvelles having a principle place of business at 1 et 4, avenue de Bois-Préau, 92852 Rueil-Malmaison Cedex, France, and Axens having a principal place of business at 89 Boulevard Franklin Roosevelt, BP 50802, 92508 Rueil-Malmaison Cedex, France as joint assignees, are desirous of jointly acquiring all right, title and interest in and to said invention and Letters Patent that may be granted therefor.

NOW THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I as assignor hereby sell, assign and set over to said joint assignees the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid application for Letters Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignees of the entire interest therein; and the undersigned for James J. Colyar legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignees or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

August 9, 2016  
date

James J. Colyar  
James J. Colyar

STATE OF NEW JERSEY:

:SS:

COUNTY OF MERCER:

On this 9 day of August, 2016, before me personally came the above named James J. Colyar to me personally known as the individual(s) who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his free will for the purposes therein set forth.

Milagros Valle Guzman  
Notary Public

(seal)

Notary Public, State of NJ  
Milagros Valle - Guzman  
My Commission Expires 2-11-17