

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
FRED ALOKOZAI	09/10/2012
ROBERT BRENNAN MILLIGAN	09/10/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ASM IP HOLDINGS B.V.
<b>Street Address:</b>	VERSTERKERSTRAAT 8
<b>City:</b>	ALMERE
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	1322 AP
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14659152
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(602)382-6070
<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>	
<b>Phone:</b>	602-382-6000
<b>Email:</b>	IPDocket@swlaw.com
<b>Correspondent Name:</b>	SNELL & WILMER L.L.P. (ASM AMERICA)
<b>Address Line 1:</b>	400 EAST VAN BUREN STREET
<b>Address Line 2:</b>	ONE ARIZONA CENTER
<b>Address Line 4:</b>	PHOENIX, ARIZONA 85004-2202
<b>ATTORNEY DOCKET NUMBER:</b>	53358.03017
<b>NAME OF SUBMITTER:</b>	CYNTHIA L. PILLOTE
<b>SIGNATURE:</b>	/Cynthia L. Pillote/
<b>DATE SIGNED:</b>	03/16/2015
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

WHEREAS, we, Fred Alokozai of Fremont, California and Robert Brennan Milligan of Gold Canyon, Arizona, have invented subject matter disclosed and/or claimed in a patent application entitled PROCESS GAS MANAGEMENT FOR AN INDUCTIVELY-COUPLED PLASMA DEPOSITION REACTOR, the specification of which:

is attached hereto; or

was filed on September 12, 2012 and has been given application No. 13/612,538

(I hereby authorize the attorneys/agents at Alleman Hall McCoy Russell & Tuttle LLP, Customer Number 50488, to insert the filing date and application number of said application when known)

WHEREAS, ASM IP Holdings B.V., a corporation in the Netherlands, having its principal place of business at Versterkerstraat 8, 1322 AP Almere, the Netherlands, is desirous of acquiring an interest therein;

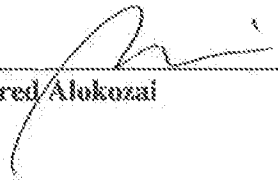
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which hereby are acknowledged, we, Fred Alokozai and Robert Brennan Milligan, have sold, assigned, and transferred, and do hereby sell, assign, and transfer, to ASM IP Holdings B.V., its successors and assigns, the full and exclusive right to the invention in the United States and its territorial possessions and in all foreign countries, and the entire right, title, and interest in and to any and all Letters Patent that may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all divisions, continuations, reissues, substitutions, and extensions thereof.

We hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to ASM IP Holdings B.V., as the assignee of our entire right, title, and interest in and to the same, for the sole use of ASM IP Holdings B.V., and its successors and assigns.

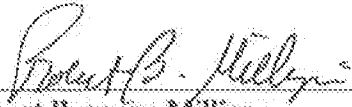
Further, we hereby covenant and agree to and with ASM IP Holdings B.V., and its successors and assigns, at the time of execution and delivery of these presents, that we are the sole and lawful owner of the entire right, title, and interest in and to the invention and the above-identified patent application, and that the same are unencumbered, and that we have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

Further, we agree that we will communicate to ASM IP Holdings B.V., or its representatives, any facts known to us respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue, substitution, and extension applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to ASM IP Holdings B.V., make all rightful oaths, and generally do everything possible to aid ASM IP Holdings B.V., and its successors and assigns, to obtain and enforce proper protection for the invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12<sup>th</sup> day of September, 2012

  
Fred Alukozai

IN TESTIMONY WHEREOF, I have hereunto set my hand this 10<sup>th</sup> day of September, 2012

  
Robert Brennan Milligan