

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Nicolaus J. Hofmeister	06/27/2007
Steven P. Caliendo	06/27/2007
Thomas G. Tetreault	06/27/2007
Ruairidh MacCrimmon	06/27/2007
RECEIVING PARTY DATA	
Name:	Tokyo Electron Limited
Street Address:	TBS Broadcast Center
Internal Address:	3-6 Akasaka 5-chome, Minato-Ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	107-8481
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11770405
CORRESPONDENCE DATA	
Fax Number:	(513)241-6234
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	5132412324
Email:	wallen@whepatent.com
Correspondent Name:	William R. Allen
Address Line 1:	441 Vine Street
Address Line 2:	Suite 2700
Address Line 4:	Cincinnati, OHIO 45202
ATTORNEY DOCKET NUMBER:	EP-116
NAME OF SUBMITTER:	William R. Allen

OP \$40.00 11770405

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PATENT
REEL: 019495 FRAME: 0318

ASSIGNMENT OF INVENTION AND PATENTS THEREON

For valuable consideration, we, **Nicolaus J. Hofmeester, Steven P. Caliendo, Thomas G. Tetreault and Ruairidh MacCrimmon**, hereby assign to **Tokyo Electron Limited**, a Corporation of Japan and having a place of business at **TBS Broadcast Center, 3-6 Akasaka 5-chome, Minato-Ku, Tokyo 107-8481 JAPAN**, and its successors and assigns (collectively hereinafter called "the Assignee"), our entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent entitled **METHODS AND APPARATUS FOR ASSIGNING A BEAM INTENSITY PROFILE TO A GAS CLUSTER ION BEAM USED TO PROCESS WORKPIECES**, and filed on June 28, 2007 as Patent Application No. 11/770,405

preparatory to obtaining Letters Patent of the United States therefor, this assignment including said application, any continuation, division or continuation-in-part thereof and/or substitute therefor, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and agree for ourselves and our heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment. We hereby authorize and request any one of the attorneys of **Wood, Herron & Evans, L.L.P., 2700 Carew Tower, 441 Vine Street, Cincinnati, OH 45202**, to insert herein the filing date and application serial number of said application when known.

Inventor's Signature Nicolaus J. Hofmeester Date 6/27/07
 Full Name: Nicolaus J. Hofmeester
 Residence: Danvers, MA

Inventor's Signature Steven P. Caliendo Date 6/27/07
 Full Name: Steven P. Caliendo
 Residence: Ashby, MA

Inventor's Signature Thomas G. Tetreault Date 27 June 2007
 Full Name: Thomas G. Tetreault
 Residence: Manchester, NH

Inventor's Signature Ruairidh MacCrimmon Date 27 June 2007
 Full Name: Ruairidh MacCrimmon
 Residence: Arlington, MA