

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	BROOKS AUTOMATION, INC.	02/02/2010
RECEIVING PARTY DATA		
Name:	MURATA MACHINERY LTD.	
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City:	KYOTO	
State/Country:	JAPAN	
Postal Code:	601-8326	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14755928
CORRESPONDENCE DATA		
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NAME OF SUBMITTER:	ALISSA TIZZANO	
SIGNATURE:	/Alissa/	
DATE SIGNED:	09/13/2016	
Total Attachments: 5		
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PATENT ASSIGNMENT

WHEREAS, BROOKS AUTOMATION, INC., a Delaware corporation having a principal place of business at 15 Elizabeth Drive, Chelmsford, MA 01824 U.S.A. ("ASSIGNOR"), is the owner of the entire right, title and interest in and to certain United States patents and patent applications as well as certain foreign patents and patent applications corresponding thereto, said United States patents and patent applications being identified in the attached Schedule A and being hereinafter referred to as "PATENTS AND PATENT APPLICATIONS";

WHEREAS, MURATA MACHINERY, LTD., a Japanese corporation having a place of business at 3 Minami Ochiai-cho, Kisshoin, Minami-ku, Kyoto-shi, Kyoto 601-8326, JAPAN ("ASSIGNEE"), is desirous of obtaining the entire right, title and interest in and to the PATENTS AND PATENT APPLICATIONS;

WHEREAS, ASSIGNOR and ASSIGNEE have entered into a certain Patent Assignment and Agreement dated February 2, 2010, pursuant to which ASSIGNEE has agreed to purchase from ASSIGNOR, and ASSIGNOR has agreed to sell to ASSIGNEE, its entire right, title, and interest in the PATENTS AND PATENT APPLICATIONS;

NOW, THEREFORE, for good and valuable considerations paid by ASSIGNEE to ASSIGNOR, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. ASSIGNOR hereby grants, conveys, sells, assigns, and transfers to ASSIGNEE and its successors and assigns all of such ASSIGNOR's entire right, title, and interest throughout the world in and to the PATENTS AND PATENT APPLICATIONS, and all inventions and improvements described or claimed therein, and in any and all reissues, extensions, renewals, reexaminations, divisions, or continuations of such PATENTS AND PATENT APPLICATIONS, to the full end of the term or terms of the PATENTS AND PATENT APPLICATIONS or for which such reissues, extensions, renewals, reexaminations, divisions, or continuations issue, as well as all of the following:
 - a. All income, royalties, license fees, damages, and payments now and hereafter due and/or payable under and with respect to the Patents including (without

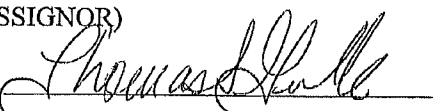
limitation) damages and payments for past, present or future infringements or misappropriations of the PATENTS AND PATENT APPLICATIONS;

- b. The right to sue and recover for past, present, and future infringements or misappropriations of the PATENTS AND PATENT APPLICATIONS;
 - c. All rights in and to the PATENTS AND PATENT APPLICATIONS throughout the world, including without limitation the right to grant licenses and the right to claim priority based on the filing date of the PATENTS AND PATENT APPLICATIONS 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.
2. The right, title, and interest hereby granted, conveyed, sold, assigned, and transferred to ASSIGNEE shall be prior to any right, title, and interest granted to any third party, and ASSIGNOR shall take all action necessary to preserve the validity and priority of such right, title, and interest.
3. ASSIGNOR agrees for itself and its successors, 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.

IN TESTIMONY WHEREOF, ASSIGNOR has caused this Assignment to be executed by its duly authorized officer.

(ASSIGNOR)

By



Title General Counsel and Secretary

Date February 2, 2010

ASSIGNEE hereby acknowledges receipt of the entire right, title and interest in and to the
PATENTS AND PATENT APPLICATIONS.

(ASSIGNEE)

By 

Title President & CEO

Date February 12, 2010

SCHEDULE A

Patents

Patent Number	Title	US Issue Date
US 4,926,753	Flexible material transport system	05-22-1990
US 5,673,804	Hoist system having triangular tension members	10-07-1997
US 6,053,478	Wafer hoist with self-aligning bands	04-25-2000
US 6,265,851	Ultracapacitor power supply for an electric vehicle	07-24-2001
US 6,273,237	Rotating shuttle payload platform	08-14-2001
US 6,278,201	Power sharing among multiple power supplies in a material handling system	08-21-2001
US 6,285,951	Dynamic traffic based routing algorithm	09-04-2001
US 6,290,188	Collision avoidance system for track-guided vehicles	09-18-2001
US 6,345,851	Robotic gripping device for gripping an object having a handle on an upper surface	02-12-2002
US 6,397,990	Materials transport system having inductive power transfer	06-04-2002
US 6,443,686	Material handling and transport system and process	09-03-2002
US 6,647,316	Traffic management system and method for materials handling using traffic balancing and traffic density	11-11-2003
US 6,686,823	Inductive power transmission and distribution apparatus using a coaxial transformer	02-03-2004
US 6,719,100	Interfloor vertical transport and horizontal closure system	04-13-2004
US 7,101,138	Extractor/buffer	09-05-2006
US 7,153,083	Material handling and transport process	12-26-2006
US 7,165,927	Automated material handling system for semiconductor manufacturing based on a combination of vertical carousels and overhead hoists	01-23-2007
US 7,194,332	Data based node penalties	03-20-2007
US 6,990,721	Growth model automated material handling system	01-31-2006

Patent Applications

US Patent Application Number	Publication Number	Title	US Filing Date
11/652,707	US 20070110547	Automated material handling system for semiconductor manufacturing based on a combination of vertical carousels and overhead hoists	January 12, 2007
10/697,528	US 20050095087	Automated Material Handling System	October 30, 2003
10/682,809	US 20040126208	Access to one or more levels of material storage shelves by an overhead hoist transport vehicle from a single track position	October 9, 2003
11/580,697	US 20070092359	Access to one or more levels of material storage shelves by an overhead hoist transport vehicle from a single track position	October 13, 2006