

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LUMEN DYNAMICS GROUP, INC.	10/07/2011
RECEIVING PARTY DATA	
Name:	Thorlabs, Inc.
Street Address:	435 Route 206 North
City:	Newton
State/Country:	NEW JERSEY
Postal Code:	07860
PROPERTY NUMBERS Total: 4	
Property Type	Number
Patent Number:	6251658
Patent Number:	5751090
Patent Number:	7511403
Patent Number:	7768177
CORRESPONDENCE DATA	
Fax Number:	(866)864-3947
Phone:	973-401-7157
Email:	patent@grahamcurtin.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Harris A. Wolin
Address Line 1:	Graham Curtin, P.A.
Address Line 2:	4 Headquarters Plaza, P.O. Box 1991
Address Line 4:	Morristown, NEW JERSEY 07962-1991
ATTORNEY DOCKET NUMBER:	THOR 3054-3057
NAME OF SUBMITTER:	Harris A. Wolin
Total Attachments: 3 source=thor_3054_to_3057_lumen_assignment#page1.tif source=thor_3054_to_3057_lumen_assignment#page2.tif source=thor_3054_to_3057_lumen_assignment#page3.tif	

OP \$160.00 6251658

501702713

PATENT  
REEL: 027120 FRAME: 0975

**PATENT ASSIGNMENT**

This PATENT ASSIGNMENT (this "Assignment") is made for registration purposes as of October 7, 2011 by and between LUMEN DYNAMICS GROUP, INC., a corporation organized under the laws of the Province of Ontario under Ontario Corporation Number 001834229, Canada ("Assignor"), and THORLABS, INC., a corporation duly formed under the laws of New Jersey, with a principal address at 435 Route 206 North, Newton, NJ 07860 ("Assignee"), pursuant to a Purchase Agreement, dated as of even date herewith, by and between Assignor, Assignee and Lumen Dynamics Holdings, Inc. (the "Purchase Agreement"). In the event of a conflict between this Assignment and the Purchase Agreement, the Purchase Agreement shall take precedence.

For good and sufficient consideration (including the premises and covenants set forth in the Purchase Agreement), receipt of which is hereby acknowledged, Assignor does hereby sell, assign and convey to Assignee, its successors, assigns and legal representatives, on the terms and conditions stated in the Purchase Agreement, its entire right, title and interest in and to the following (collectively, the "Patents):

1. USA Patent No. 6,251,658 for Inertial impact drill for cytological applications;
2. USA Patent No. 5,751,090 for Peristaltic driver apparatus;
3. USA Patent No. 7,511,403 for High power actuators and actuating systems for extended range and precise positioning; and
4. USA Patent No. 7,768,177 for Compact size electromechanical translation apparatus.

including any and all benefits under the International Convention for the Protection of Intellectual Property, under any and all Letters Patent which may be granted therefore, and under any and all extensions, divisions, reissues and continuations of said Letters Patents. This Assignment includes the right to sue past, current, and future infringers of the Patents, and to obtain damages and injunctive relief from or against all such infringers.

Assignor will, when reasonably requested, without charge to Assignee, sign all papers and take all rightful oaths which may be necessary, desirable or convenient for securing and maintaining the Patents in any and all countries and for vesting and registering title thereto in Assignee, its successors, assigns and legal representatives, or such other nominees as Assignee may designate, as the owner of the Patents.

Assignor will, without charge to Assignee but at Assignee's expense, do all acts that may be reasonably necessary, desirable or convenient for registering Assignee its successors, assigns and legal representatives, or to such other nominees as Assignee may designate as the owner of the Patents.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, this Patent Assignment has been duly executed and delivered by the duly authorized officers of the Assignor and the Assignee as of the date and year first written above.

**LUMEN DYNAMICS GROUP, INC.,**  
As Assignor

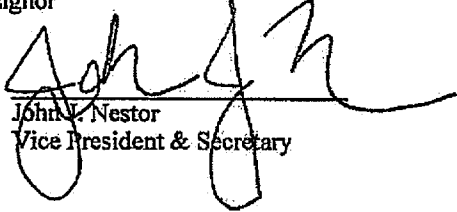
By: \_\_\_\_\_  
Name: John J. Nestor  
Title: Vice President & Secretary

**THORLABS, INC.,**  
As Assignee

By: \_\_\_\_\_  
Name: Alex Cable  
Title: President

IN WITNESS WHEREOF, this Patent Assignment has been duly executed and delivered by the duly authorized officers of the Assignor and the Assignee as of the date and year first written above.

**LUMEN DYNAMICS GROUP, INC.,**  
As Assignor

By:   
Name: John V. Nestor  
Title: Vice President & Secretary

**THORLABS, INC.,**  
As Assignee

By: \_\_\_\_\_  
Name: Alex Cable  
Title: President