

## 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>
IAN W. HUNTER	11/30/2010
ANDREW J. TABERNER	12/07/2010
N. CATHERINE HOGAN	11/30/2010
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<b>Postal Code:</b>	02139-4307
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15728988
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<b>ATTORNEY DOCKET NUMBER:</b>	0050.2124.008 (MIT 13318)
<b>NAME OF SUBMITTER:</b>	CARRIE L. HOWDER
<b>SIGNATURE:</b>	/Carrie L. Howder/
<b>DATE SIGNED:</b>	10/10/2017
<b>Total Attachments: 4</b>	
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Joint

ASSIGNMENT

WHEREAS, we, **Ian W. Hunter, Andrew J. Taberner, and N. Catherine Hogan**, have invented a certain improvement in **BI-DIRECTIONAL MOTION OF A LORENTZ-FORCE ACTUATED NEEDLE-FREE INJECTOR (NFI)** described in an application for Patent,

- ☒ the specification of which is about to be filed in the United States Patent Office (*use for utility (37 CFR § 1.53(b)) and design filings only*);
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☐ the specification of which is United States Application No. [    ], filed [    ];
- ☐ the specification of which is a Patent Cooperation Treaty Application, International Application No. [    ], filed [    ], which designates the United States of America [and is assigned United States Application No. [    ]];
- ☐ which was patented under United States Patent No. [    ].

WHEREAS, **Massachusetts Institute of Technology** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Massachusetts**, and having a usual place of business at **77 Massachusetts Avenue, Cambridge, Massachusetts 02139-4307** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: \_\_\_\_\_

Ian W. Hunter

State/Commonwealth  
of Massachusetts  
County of Middlesex

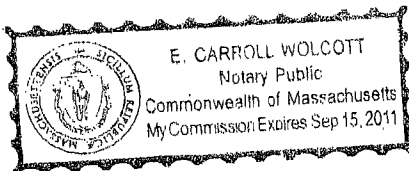
On this 30 day of Nov 2010, before me, the undersigned notary public, personally appeared Ian W. Hunter,

☒ personally known to me, or

☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public

E Carroll Wolcott (print name)

My Commission expires 9/15/11

Docket No. 0050.2124-005

Inventor

*Andrew J. Taberner*

Date 7 Dec 2010

Andrew J. Taberner

Address 4/6 Penrhyn Rd

Mt. Eden, Auckland 1024, New Zealand

Witness Signature

*Mark Finch*

Print Witness Name

Mark Finch

Address

16A Maungahuru rd. EPSOM, AUCKLAND  
NEW ZEALAND

Witness Signature

*Thomas Lyster*

Print Witness Name

Thomas Lyster

Address

45 Seafield View Rd.  
Grafton, Auckland, New Zealand

Inventor's Signature:

N. Catherine Hogan

State/Commonwealth

of

County of

On this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_, before me, the undersigned notary public, personally appeared N. Catherine Hogan,

☐

personally known to me, or

☐

proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Notary Public

(print name)

My Commission expires \_\_\_\_/\_\_\_\_/\_\_\_\_

Inventor Andrew J. Taberner Date \_\_\_\_\_

Address 4/6 Penrhyn Rd  
Mt. Eden, Auckland 1024, New Zealand

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Witness Signature \_\_\_\_\_

Print Witness Name \_\_\_\_\_

Address \_\_\_\_\_

Inventor's Signature:   
N. Catherine Hogan

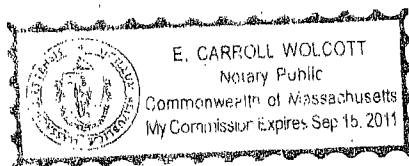
State/Commonwealth  
of Massachusetts  
County of Middlesex

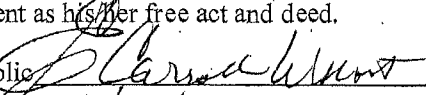
On this 30 day of Nov 2010, before me, the undersigned notary public, personally appeared N. Catherine Hogan,

- ☒ personally known to me, or  
☐ proved to me through satisfactory evidence of identification, which was

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)



Notary Public   
E Carroll Wolcott (print name)  
My Commission expires 9/15/11