505290283 01/22/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5337060

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DR. WILLIAM T. FREEMAN	01/18/2019
DR. FREDERIC DURAND	01/18/2019

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Street Address:	77 MASSACHUSETTS AVENUE
City:	CAMBRIDGE
State/Country:	MASSACHUSETTS
Postal Code:	02139

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15579924

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	33005.45			
NAME OF SUBMITTER:	ROBERT B. LYONS			
SIGNATURE:	/ROBERT B. LYONS REG. 40708/			
DATE SIGNED:	01/22/2019			

Total Attachments: 5

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> **PATENT** REEL: 048095 FRAME: 0584 505290283

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PATENT REEL: 048095 FRAME: 0585

ASSIGNMENT

WHEREAS, MOHAMED ABDELAZIZ A. MOHAMED ELGHARIB, a citizen/citizens of Egypt, residing at/whose address is EZDAN TOWER 1, #2511, AL-DAFNA, DOHA, QATAR; MOHAMED M. HEFEEDA, a citizen/citizens of Canada, residing at/whose address is 452 AL WAAB STREET, NO. 6, DOHA, QATAR; WILLIAM T. FREEMAN, a citizen/citizens of the United States, residing at/whose address is 16 HALF MOON HILL, ACTON, MASSACHUSETTS 01720; and FREDERIC DURAND, a citizen/citizens of France, residing at/whose address is 17 KINGSTON STREET, SOMERVILLE, MASSACHUSETTS 02144, METHOD FOR DYNAMIC presently own(s) the invention entitled MAGNIFICATION, for a full description of which reference is made to a non-provisional application for Letters Patent of the United States Serial Number 15/579,924 filed on December 5, 2017, (filed herewith under Attorney Docket No. 33005.45), which claims the benefit of PCT Patent Application Serial Number PCT/US2016/035687, filed on June 3, 2016, (filed under Attorney Docket No. 32705.27), which claims the benefit of U.S. Provisional Patent Application Serial Number 62/171,816, filed on June 5, 2015; and

WHEREAS, the MASSACHUSETTS INSTITUTE OF TECHNOLOGY, a university organized and existing under the laws of the Commonwealth of Massachusetts, having its principal place of business/business address at 77 MASSACHUSETTS AVENUE, CAMBRIDGE, MASSACHUSETTS 02139, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest of the above-mentioned WILLIAM T. FREEMAN and FREDERIC DURAND, hereinafter referred to as the "Assignors", in and to said invention, the above noted application, and to any Letters Patent which may be obtained for said invention, and as hereinafter more fully set forth,

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that for and in the consideration of the sum of One Dollar (\$1.00) and other valuable and legally sufficient consideration, the receipt of which by said Assignor(s) from said Assignee is hereby acknowledged, the said Assignor(s) has/have sold, assigned and transferred, and by these presents does/do sell, assign and transfer unto the said Assignee, their entire right, title and interest in the United States to the invention and above noted application, and in and to any division, continuation, or continuation-in-part of said application, and in and to any Letters Patent of the United States and reissues and extensions thereof that may issue for said invention, together with their entire right, title and interest in and to said invention and applications for Letters Patent and Letters Patent therefor in all countries foreign to the United States; and their entire right, title and interest in any international applications, such as those filed under the Patent Cooperation Treaty and any continuations or continuations-in-part thereof, to have and to hold for the sole and exclusive use and benefit of the said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue.

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AND the said Assignor(s) does/do hereby covenant and agree, for himself/themselves and his/their legal representatives, that he/they will assist said Assignee in making and prosecuting any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinbefore set forth, investing in the said Assignee like exclusive title in and to all such other applications and Letters Patent, together with all claims for damages and profits by reason of past infringement of all or any of the patents issuing from the Patent Application, with the right to sue for and collect same for Assignee's own use (and for the use of Assignee's successors and assigns); and in the prosecution of any interference which may arise involving said invention, or any application for Letters Patent herein contemplated; and that he/they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this agreement.

AND the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this agreement.

IN TESTIMONY WHEREOF, said Assignor, V hand and affixed his seal this 18th day of 10 AA	VILLIAM T. FREEMAN, has hereunto set his val
	Withan Mouneyseal
and (WILLIAM T. FREEMAN
STATE OF MASSQ(husetts) ss COUNTY OF MILABOLX)	
COUNTY OF MILE (1956 X)	
Subscribed and sworn to before me this	18th January
Subscribed and sworn to before the this $\underline{}$	day of
20	O HII
Amir Hani Hafez NOTARY PUBLIC Commonwealth of Massachusetts Commonwealth of Massachusetts	Notary Public
(SIFA) My Commission Expires Aug. 22, 2022	
IN TESTIMONY WHEREOF, said Assignor,	FREDERIC DURAND, has hereunto set his
hand and affixed his seal this day of	
	[SEAL]
	FREDERIC DURAND
	TREBERGE BORGING
STATE OF)	
) ss	
COUNTY OF)	

Subscribed	and sworn to before me this	day of	
20			
		Notary Public	
(SEAL)			

AND the said Assignor(s) does/do hereby covenant and agree, for himself/themselves and his/their legal representatives, that he/they will assist said Assignee in making and prosecuting any other applications for Letters Patent that the said Assignee may elect to make covering the invention herein identified, as hereinbefore set forth, investing in the said Assignee like exclusive title in and to all such other applications and Letters Patent, together with all claims for damages and profits by reason of past infringement of all or any of the patents issuing from the Patent Application, with the right to sue for and collect same for Assignee's own use (and for the use of Assignee's successors and assigns); and in the prosecution of any interference which may arise involving said invention, or any application for Letters Patent herein contemplated; and that he/they will execute and deliver to the said Assignee any and all additional papers which may be requested by the said Assignee to fully carry out the terms of this agreement.

AND the Commissioner of Patents and Trademarks is hereby authorized and requested to issue Letters Patent to the said Assignee in accordance with the terms of this agreement.

IN TESTIMONY WHEREOF, said Assignor, hand and affixed his seal this day of	WILLIAM T. FREEMAN, has hereunto set his, 20
	[SEAL]
	WILLIAM T. FREEMAN
STATE OF)	
COUNTY OF)	
Subscribed and sworn to before me this _20	day of
	Notary Public
(SEAL)	
IN TESTIMONY WHEREOF, said Assignor hand and affixed his seal this 18 day of 10 day	FREDERIC DURAND, has hereunto set his
	[SEAL] FREDERIC DURAND
STATE OF Massachusetts)	
STATE OF Massachusetts)) ss COUNTY OF Middlesex	

Frederic Subscribed	and	sworn	to	before	me	this	19th day of January	_,
~ \(\ldots \)							Notary Public	٠.

(SEAL)

DAVID C. GRIEB, JR.
Notary Public
Commonwealth of Massachusetts
My Commission Expires
November 23, 2023