505403365 04/01/2019

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5450159

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
VAMSY CHODAVARAPU	07/02/2015
GEORGE XEREAS	10/08/2015

#### **RECEIVING PARTY DATA**

Name:	THE ROYAL INSTITUTION FOR THE ADVANCEMENT OF LEARNING / MCGILL UNIVERSITY
Street Address:	845 SHERBROOKE STREET WEST
Internal Address:	JAMES ADMINISTRATION BUILDING
City:	MONTREAL
State/Country:	CANADA
Postal Code:	H3A 0G4

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16369757

#### **CORRESPONDENCE DATA**

**Fax Number:** (312)913-0002

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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

**Phone:** (312)913-0001

Email: docketing@mbhb.com

Correspondent Name: MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP

Address Line 1: 300 SOUTH WACKER DRIVE

Address Line 2: SUITE 3100

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	18-1886-US-CON
NAME OF SUBMITTER:	BRETT W. SCOTT
SIGNATURE:	/Brett W. Scott/
DATE SIGNED:	04/01/2019

**Total Attachments: 4** 

source=18-1886-US-CON\_assignment#page1.tif source=18-1886-US-CON\_assignment#page2.tif

PATENT REEL: 048749 FRAME: 0926

505403365

source=18-1886-US-CON\_assignment#page3.tif source=18-1886-US-CON\_assignment#page4.tif

#### ASSIGNMENT OF INVENTION UNIVERSAL

WHEREAS, I/We

Vamsy Chodavarapu, whose full post office address is 63 Cushing Drive, Essex Junction, Vermont, 05452, USA

George Xereas, whose full post office address is 21-5235 Chemin de la Cote-Saint Luc, Montreal, Quebec, H3W 2H8, Canada

have invented certain improvements relating to MEMS Resonator Devices which have described within documents including, but not limited to, those listed below and have and / or will be described within and the subject of Utility Patent Applications and Design Patent Applications including, but not limited to, those listed below:

"Methods and Devices for Microelectromechanical Sensors", filed on July 2, 2014 under Application No. US 62/020,049 with the United States Patent and Trademark Office; and

WHEREAS, The Royal Institution for the Advancement of Learning / McGill University, hereinafter referred to as the assignee, whose full post office address is James Administration Building, 845 Sherbrooke Street West, Montreal, Quebec, H3A 0G4, Canada is desirous of acquiring the entire right, title and interest in and to said invention or inventions and in and to any and all patents to be obtained therefor:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, we have and by these presents do hereby sell, assign and transfer unto said assignee, its successors and assigns, the entire right, title and interest in and to said invention or inventions, as described in the aforesaid application / disclosure, in any form or embodiment thereof, and in and to the aforesaid application, and in and to any applications filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention; also the entire right, title and interest in and to any and all patents, reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions, and any divisional, continuation, substitute application(s) or supplementary disclosure(s) which may be filed upon said invention or inventions, in any country; and we hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said assignee.

WE FURTHER AGREE without any payment by said assignee other than expenses incurred by the undersigned, to communicate to said assignee, its representatives or agents, any facts relating to said invention or inventions, including evidence for interference purposes or for other proceedings, whenever requested; testify in any interference or other proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns.

WITNESS:		ASSIGNOR
Date:	July 2, 2015	
Printed Name of Witness	<u>ŠIRISMA KARRI</u>	
Signature of Witness	<u> </u>	Vamsy Chodavarapu
WITNESS:		ASSIGNOR
Date:	·	
Printed Name of Witness		
Signature of Witness		George Xereas

#### ASSIGNMENT OF INVENTION UNIVERSAL

WHEREAS, IWe

Vamsy Chodavarapu, whose full post office address is 7640 Rue de Lima, Brossard, Quebec, J4Y 0H7, Canada

George Xereas, whose full post office address is 21-5235 Chemin de la Cote-Saint Luc, Montreal, Quebec, H3W 2H8, Canada

have invented certain improvements relating to MEMS Resonator Devices which have described within documents including, but not limited to, those listed below and have and / or will be described within and the subject of Utility Patent Applications and Design Patent Applications including, but not limited to, those listed below:

"Methods and Devices for Microelectromechanical Sensors", filed on July 2, 2014 under Application No. US 62/020,049 with the United States Patent and Trademark Office; and

WHEREAS, The Royal Institution for the Advancement of Learning / McGill University, hereinafter referred to as the assignee, whose full post office address is James Administration Building, 845 Sherbrooke Street West, Montreal, Quebec, H3A 0G4, Canada is desirous of acquiring the entire right, title and interest in and to said invention or inventions and in and to any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which is hereby acknowledged, we have and by these presents do hereby sell, assign and transfer unto said assignee, its successors and assigns, the entire right, title and interest in and to said invention or inventions, as described in the aforesaid application / disclosure, in any form or embodiment thereof, and in and to the aforesaid application, and in and to any applications filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention; also the entire right, title and interest in and to any and all patents, reissues or extensions thereof to be obtained in this or any foreign country upon said invention or inventions, and any divisional, continuation, substitute application(s) or supplementary disclosure(s) which may be filed upon said invention or inventions, in any country; and we hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said assignee.

WE FURTHER AGREE without any payment by said assignee other than expenses incurred by the undersigned, to communicate to said assignee, its representatives or agents, any facts relating to said invention or inventions, including evidence for interference purposes or for other proceedings, whenever requested; testify in any interference or other proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective, and likewise make these provisions binding upon our heirs, legal representatives, administrators and assigns.

WITNESS:	ASSIGNOR
Date:	
Printed Name of Witness	
Signature of Witness	Vamsy Chodavarapu
WITNESS:	Assignor
Date: 0+ 5" 2019	)
Printed Name of Witness	4/
Signature of Witness	George Xereas

PATENT REEL: 048749 FRAME: 0931

**RECORDED: 04/01/2019**