506586132 03/31/2021

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPHER DIBIASIO	01/07/2013
JOSEPH L. CHAREST	01/09/2013
JEFFREY T. BORENSTEIN	01/11/2013
ERNEST S. KIM	01/16/2013
DANIEL I. HARJES	01/16/2013
KEVIN HUFFORD	01/11/2013

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15601376	

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NAME OF SUBMITTER:	JENNIFER A. CORMIER
SIGNATURE:	/Jennifer A. Cormier/
DATE SIGNED:	03/31/2021

PATENT REEL: 055784 FRAME: 0536 506586132

Total Attachments: 6source=2-102590-0313_Executed-Assignment 4811-0857-9042 v.1#page1.tif source=2-102590-0313_Executed-Assignment 4811-0857-9042 v.1#page2.tif source=2-102590-0313_Executed-Assignment 4811-0857-9042 v.1#page3.tif source=2-102590-0313_Executed-Assignment 4811-0857-9042 v.1#page4.tif

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PATENT REEL: 055784 FRAME: 0537

Atty. Dkt. No. 102590-0313

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

The Charles Stark Draper Laboratory, Inc. 555 Technology Square Cambridge, MA 02139

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

COMPACT HYDRAULIC MANIFOLD STRUCTURE FOR SHEAR SENSITIVE FLUIDS

as set forth in t	his United States	Patent Application			
check one	[] executed con	ncurrently herewith,			
	1 Jeveconica ou		- concentrate ²		
	[X] Serial No.	13/736,685	Filed	January 8, 20)13

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

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ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of Foley & Lardner LLP the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Foley & Lardner LLP do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

-100 Jan		
Executed this <u>7</u> day of Janua	, 20 <u>13</u> .	
	CQ D,B	*****
	CHRISTOPHER DIBIASIO	77.7
State of Masachuselts)		
County of Middlesex)		
On this	oved to me on the basis of satisfactory evidence to be the person wheleshe executed the same in his/her authorized capacity, and that by	ose
WITNESS my hand afficial seal		
Signature Apple 1/2 1/2		
	HELLE R. KEAANS	
My Commission Expires: 3/2/1/	Notary Public NEALTH OF MASSACHUSETTS Commission Expires	
(Seal)	March 1, 1919	
	2017	
Executed this day of	,2013 .	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Maria L. (XVV)	ei,
	OSEPH L. CHAREST	oroj.
State of Massachusets	/	
The state of the s	X °	
County of Middlesex)	f H	
On this 9 day of Tourse - 7013 before	me Mickelle R Konzal is notary public in a	nd
On this	to me on the basis of satisfactory evidence to be the person whose	
for said county), personally appeared ANEPHO THAREST, who proved to name is subscribed to the within instrument and acknowledged to me that he	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by	
for said county), personally appeared JOSEPHC CHAREST, who proved to	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by	
for said county), personally appeared ANEPHO THAREST, who proved to name is subscribed to the within instrument and acknowledged to me that he	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by	
for said county), personally appeared RISEPHO EHAREST, who proved to name is subscribed to the within instrument and acknowledged to me that his/her signature on the instrument the person, or the entity upon behalf of WITNESS my hand and official seal.	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by which the person acted, executed the instrument.	
for said county), personally appeared ROSEPHO THAREST, who proved to name is subscribed to the within instrument and acknowledged to me that his/her signature on the instrument the person, or the entity upon behalf of WITNESS my hard and official seal. Signature	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by which the person acted, executed the instrument.	
for said county), personally appeared RISEPHOLHAREST, who proved to name is subscribed to the within instrument and acknowledged to me that his/her signature on the instrument the person, or the entity upon behalf of WITNESS my hand and official seal. Signature MICHELL Note:	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by which the person acted, executed the instrument. E. R. KEARNS	
for said county), personally appeared ROSEPHO THAREST, who proved to name is subscribed to the within instrument and acknowledged to me that his/her signature on the instrument the person, or the entity upon behalf of WITNESS my hand and official seal. Signature MICHELL Note My Commission Expires: 3/7/9	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by which the person acted, executed the instrument. E. R. KEARNS lary Public TH OF MASSACHUSETTS	
for said county), personally appeared ROSEPHO THAREST, who proved to name is subscribed to the within instrument and acknowledged to me that his/her signature on the instrument the person, or the entity upon behalf of WITNESS my hand and official seal. Signature MICHELL Note My Commission Expires: 3/1/14 My CommoNweALTI My CommoNweALTI My CommoNweALTI My CommoNweALTI	to me on the basis of satisfactory evidence to be the person whose he/she executed the same in his/her authorized capacity, and that by which the person acted, executed the instrument. E. R. KEARNS	

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Atty. Dkt. No. 102590-0313 (CSDL 2157 CIP)

Executed this day of	Junu , 20/3		
		165 M	**************************************
State of Massachusetts		JUFFREY T. BORENS	TEIN
County of Made sex			
On this day of	and acknowledged to me that he/she	on the basis of satisfactory evidence e executed the same in his/her autho	rized capacity, and
WITNESS my pany and professal season			
Signature 1900 Sept.			
My Commission Expires. 3/7/19	MICHELLE R Notary F COMMONWEALTH OF	Public (
(Seal)	My Commissi March 7,		
Executed this 歫 day of	January, 20/3	~/2	<u> </u>
State of Mossach salts		ERNEST S. KIM	
County of Middle see)			
On this // day of // or two // for said county), personally appeared ERNESUS subscribed to the within instrument and acknowled signature on the instrument the person, or the entity	IM, who proved to me on the basis ed to me that he/she executed the s	of satisfactory evidence to be the pe ame in his/her authorized capacity, a	notary public in and rson whose name is and that by his/her
WITNESS my hand and official scal. Signature			
My Commission Expires: 3/2/19	MICHELLE R. F Notery Pub COMMONWEALTH OF MA My Commission	(EARNS) lic SSACHUSETTS	
(Seal)	March 7, 20		

Page 4 of 5

Executed this 11 day of Jone	<u>ory</u> , 20 <u>(3</u> .
	120113
a 00 0000	DANIEL ITHARJES
State of Massachwelts	imilia tatatan
County of Millosac)	× 900
On this day of	before me, Michale R. Hearn's (a notary public in and
	roved to me on the basis of satisfactory evidence to be the person whose name at he/she executed the same in his/her authorized capacity, and that by his/her
WITNESS my hand and official scale /	
Signature JAMA K. Jan	
V smillsmillsmillsmillsmillsmillsmillsmil	
7 / 1819A la	ICHELLE R. KEARNS Notary Public
(Seal)	IONWEALTH OF MASSACHUSETTS My Commission Expires
(Sear)	March 7, 2019
Executed this day of	
	KEVIN HUFFORD
State of)	
County of)	
for said county), personally appeared KEVIN HUFFORD, who pre-	before me, (a notary public in and pred to me on the basis of satisfactory evidence to be the person whose name is the/she executed the same in his/her authorized capacity, and that by his/her f which the person acted, executed the instrument.
WITNESS my hand and official seal.	
Signature	
i	
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My Commission Expires:	
My Commission Expires:	

Page 5 of 5

Atty, Dkt. No. 102590-0313 (CSDL 2157 CIP)

Executed this	day of	,20
		DANIEL I. HARJES
State of)	
County of		
for said county), personally appeared is subscribed to the within instrument	DANTEL L HARJES t and acknowledged to	, 20 before me,
WITNESS my hand and official scal.		
Signature		
My Commission Expires:		
(Scal)		
Executed this	day of _ 5 /	HNUARY , 2013.
		Kei HShi
		KEVINVIÚFFORD
State of FLOATOA)	
County of Householder	<u>rt</u>)	
subscribed to the within instrument a	and acknowledged to	2013, before me. <u>CISETMER FROM SC</u> Is notary public in and who proved to me on the basis of satisfactory evidence to be the person whose name is me that he/she executed the same in his/her authorized capacity, and that by his/her behalf of which the person acted, executed the instrument.
WITNESS my hand and official scal	Ĺ	
signature Usercy Ca	als.(q)	
My Commission Expires:	g 16,3015	
(Scal)		
MY COM	RYLA ABRIGO MISSION / EE 063190	

Page 5 of 5

RECORDED: 03/31/2021