# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
DIEGO GALLARDO	06/18/2019

### **RECEIVING PARTY DATA**

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## **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16444236	

### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER:	LAWRENCE S. DRASNER
SIGNATURE:	/Lawrence S. Drasner/
DATE SIGNED:	06/18/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

## **Total Attachments: 3**

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PATENT 505530619 REEL: 049503 FRAME: 0128

co	MBINED DECI	LARATION AND ASSIGNMENT (ORIGINAL, DESIGN, NAT		
Title:	OPTICAL S	SHAPE SENSOR FOR DETEITE	RMINING SHAPE OF	A FLEXIBLE
		i. DECL	ARATION	
As a be	low named inve	entor or joint inventor, I hereby de	eclare that:	
This dec	claration is dire	cted to:		
(a) <u>X</u>	the attached	d application, or		
(b)	United State	es application or PCT internation	al application number _	
The abo	ve-identified ap	oplication was made or authorize	d by me.	
l believe	that I am the o	original inventor or an original joir	t inventor of a claimed in	vention in the application.
I hereby	state that I hav	ve reviewed and understand the	contents of the above-ide	entified application.
		the duty to disclose to the U.S. P ability as defined in 37 C.F.R. §1		ice all information known to m
		that any willful false statement nment of not more than five (5) y		n is punishable under 18 US0
		PRIORIT	Y CLAIM	
patent of than the patent of than the	or inventor's ce United States or inventor's ce United States	priority benefits under Title 35, Ur rtificate or of any PCT internation of America listed below and ha rtificate or any PCT internationa of America filed by me on the sa priority is claimed.	nal application(s) designa ave also identified below il application(s) designal	ating at least one country other any foreign application(s) foring at least one country other
(c) <u>X</u>	no such app	plication have been filed.		
(d)	such applica	ations have been filed as follows.	•	
		ST FOREIGN APPLICATION(S), MONTHS FOR DESIGN) PRIOR		
C	OUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC §119
				Yes No Yes No Yes No

09/01/2012

#### II. ASSIGNMENT

As a below named assignor, for good and valuable consideration acknowledged and received I hereby sell and assign my entire worldwide right, title and interest in the application and the invention(s), so far as concerns the United States and the Territories and Possessions thereof and all foreign countries to:

#### ASSIGNEE:

SHARP KABUSHIKI KAISHA 1 Takumi-cho, Sakai-ku, Sakai City Osaka, Japan 590-8522

#### Including:

any and all related patent application(s) in the United States or a country foreign thereto, including continuations, continuations-in-part, divisionals, conversions, renewals, substitutes, reissues, reexaminations, extensions, non-provisional applications, convention, International (e.g., Patent Cooperation Treaty (PCT)) and other applications based in whole or in part upon the invention(s) or upon the application(s);

any and all Letters Patent, renewals, reissues, reexamination certificates and extensions of Letters Patent granted for the invention(s) or upon the application(s); and

every priority right that is or may be predicated upon or arise from the invention(s), the application(s) and the Letters Patent.

I additionally authorize the Assignee to file patent applications in my or the Assignee's name for Letters Patent in any country (by international convention, treaty or otherwise), to be held and enjoyed by the Assignee, its successors and assigns, to the full end of the term or terms for which Letters Patent respectively may be granted, reissued, reexamined or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this Assignment and transfer not been made.

I hereby covenant that I have the full right to convey the entire interests herein assigned, and that I have not executed and will not execute any agreement in conflict herewith and that such assigned rights are not encumbered by any grant, license or other right previously given.

I agree that each time a request is made, and without undue delay, I will execute and deliver all such papers as may be necessary or desirable to perfect the title in and to the invention(s), the application(s) and the Letters Patent, to the Assignee, its successors or assigns.

I agree, without undue delay, to undertake all reasonable acts to assure that said invention(s), patent application(s) and Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly: to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, declarations, powers of attorney, assignments, invention disclaimers and lawful affidavits in form and substance which may be requested by the Assignee; to furnish the Assignee with all facts relating to said invention(s) or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said invention(s); and to testify in any proceedings relating to said invention(s), patent application(s) and Letters Patent.

I authorize the patent attorney of record and/or having power of attorney in the U.S. patent application identified above to insert the serial number and filing date information for the patent application in the appropriate spaces in this document when that information becomes available.

09/01/2012

Full Name of Sole In	ventor and Assignor: Diego GALLAR	DO		
Inventor's signature:	- 4 150-32.	Date:	18/6/2	719
Post Office Address:	c/o Sharp Laboratories of Europe Ltd, Edmu Park, Oxford, OX4 4GB, UK	ind Halley	Road, Oxford Scien	ce
	HECK FOR ANY OF THE FOLLOWING ADD II A PART OF THIS COMBINED DECLARAT			
Signature for six	th and subsequent joint inventors and assign	ors: numbe	er of pages added	
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	his combined declaration and assignment for art (CIP) application.	div <b>i</b> sional,	continuation, or	
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