

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5330958

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	OWEN DRUMM	09/19/2017
RECEIVING PARTY DATA		
Name:	RAPT IP LIMITED	
Street Address:	VISION EXCHANGE BUILDING	
Internal Address:	TERRITORIALS STREET	
City:	MRIEHEL	
State/Country:	MALTA	
Postal Code:	BKR 3000	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16138834
CORRESPONDENCE DATA		
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<i>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.</i>		
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Correspondent Name:	JOHN E. KIND	
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ATTORNEY DOCKET NUMBER:	28528-41602/US	
NAME OF SUBMITTER:	JOHN E. KIND REG. NO. 70,670	
SIGNATURE:	/John E. Kind/	
DATE SIGNED:	01/17/2019	
Total Attachments: 2		
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Rapt IP Limited**, a Gibraltar limited liability company, having a place of business at Vision Exchange Building, Territorials Street, Mriehel BKR 3000, Malta ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional or non-provisional application filed under 35 U.S.C. § 111, design application filed under 35 U.S.C. § 171, Registered Community Designs, international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

- Application No. **15/603,310**, entitled "**Instrument Detection with an Optical Touch Sensitive Device, with Associating Contacts with Active Instruments**," filed on **May 23, 2017**, is a continuation-in-part of U.S. Non-Provisional Application No. 14/971,913, filed December 16, 2015, which is a continuation-in-part of U.S. Non-Provisional Application No. 14/842,714, filed September 1, 2015, which claims priority from provisional application U.S. Provisional Application No. 62/044,875, filed September 2, 2014.

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

Title: Instrument Detection with an Optical Touch Sensitive Device, with Associating Contacts with
Active Instruments
Filed: May 23, 2017 Attorney Docket #: 28528-37668/US
Application #: 15/603,310

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature

Date of Signature



Owen Drumm

19 September 2017