

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6150931

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	NUNC PRO TUNC ASSIGNMENT	
<b>EFFECTIVE DATE:</b>	06/29/2016	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	ULTRAHAPTICS LIMITED	08/14/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	ULTRAHAPTICS IP LTD	
<b>Street Address:</b>	THE WEST WING, GLASS WHARF	
<b>City:</b>	BRISTOL	
<b>State/Country:</b>	UNITED KINGDOM	
<b>Postal Code:</b>	BS2 0EL	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	16899720
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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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<b>ATTORNEY DOCKET NUMBER:</b>	1133.0272 [19-US-CON II]	
<b>NAME OF SUBMITTER:</b>	MARK I. KOFFSKY	
<b>SIGNATURE:</b>	/Mark I. Koffsky/	
<b>DATE SIGNED:</b>	06/12/2020	
<b>Total Attachments: 2</b>		
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PATENT  
1133.0038**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to ULTRAHAPTICS IP LTD (the "Assignee"), a corporation organized and existing under and by virtue of the laws of England and Wales, and having its principal place of business at The West Wing, Glass Wharf, Bristol, England BS2 0EL, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the patent applications set forth in **Schedule 1**, such applications and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

The foregoing is retroactively effective as of **June 29, 2016**.

ULTRAHAPTICS LIMITED

(Signature) Steve Cliffe Date: August 14, 2016  
Name: Steven Cliffe  
Title: CEO

PATENT  
1133.0038**SCHEDULE 1**

<b>Title</b>	<b>Filing Date</b>	<b>Serial No.</b>	<b>Type</b>
Focusing with Multiple Frequencies in a Haptic System	20-Feb-2015	62/118,543	Provisional
Amplitude Multiplexing with Dominant Eigenvectors in a Haptic System	2-Apr-2015	62/141,935	Provisional
Reducing Requirements for Machines Solving for Control Points in Haptic Systems	16-July-2015	62/193,125	Provisional
Modulated Pattern Focusing and Grouped Transducers in Haptic Systems	16-July-2015	62/193,194	Provisional
Pre-Processing Of Fourier Domain Solutions In Haptic Systems	17-Dec-2015	62/268,573	Provisional
Dynamic solution space sampling	5-Jan-2016	62/275,002	Provisional
Algorithm Improvements in a Haptic System	19-Feb-2016	15/047,791	Non-provisional