

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6981968

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	TOMMY E. HOWARD	10/20/2021
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	HAPLOMICS, INC.	
<b>Street Address:</b>	2651 FJRM AVENUE, SUITE 111	
<b>City:</b>	BROWNSVILLE	
<b>State/Country:</b>	TEXAS	
<b>Postal Code:</b>	78520-3201	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	16361027
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(512)703-6399	
<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>		
<b>Phone:</b>	512-703-6300	
<b>Email:</b>	ipdocket@dykema.com, joyhenart@dykema.com	
<b>Correspondent Name:</b>	DYKEMA GOSSETT PLLC	
<b>Address Line 1:</b>	111 CONGRESS AVENUE	
<b>Address Line 2:</b>	SUITE 1800	
<b>Address Line 4:</b>	AUSTIN, TEXAS 78701-4068	
<b>ATTORNEY DOCKET NUMBER:</b>	120165-000005	
<b>NAME OF SUBMITTER:</b>	DENISE L. MAYFIELD	
<b>SIGNATURE:</b>	/Denise L. Mayfield/	
<b>DATE SIGNED:</b>	10/21/2021	
<b>Total Attachments: 3</b>		
source=120165-000005_Assignment#page1.tif		
source=120165-000005_Assignment#page2.tif		
source=120165-000005_Assignment#page3.tif		

**ASSIGNMENT BY INVENTOR**

**THIS ASSIGNMENT**, made this 20th day of October, 2021, by Tommy E. Howard, a resident of Brownsville, TX (hereinafter referred to as Assignor);

**WHEREAS**, Assignor has invented certain new and useful improvement for ALLELIC VARIANTS OF HUMAN FACTOR VIII for which United States patent application number 16/361,027 was filed on March 21, 2019, which is a continuation of United States patent application number 14/691,544 which was filed on March 24, 2010, which was a continuation of United States patent application number 11/720,945 which was filed on December 6, 2005, and which was a National Stage filing of Patent Convention Treaty application number PCT/US2005/044229, which claimed benefit of United States provisional patent number 60/634,065 which was filed on December 6, 2004, and United States provisional patent application number 60/737,779 which was filed on November 16, 2005, collectively the "Application"); and

**WHEREAS**, HAPLOMICS, INC., a corporation organized under and pursuant to the laws of the State of California, having its principal place of business at 2651 FJRM Avenue, Suite 111, Brownsville, TX 78520-3201 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to and under said inventions, said Applications, and in any and all patents to be obtained therefor throughout the world, therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above said inventions, Application, and in and to any and all related applications, including all provisionals, non-provisionals, direct and indirect divisions, continuations and continuations-in-part of said Application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under any international conventions, including the International Convention for the Protection of Industrial Property, including all rights of priority, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors,

legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.

**AND** for the same consideration, Assignor hereby represents and warrants to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, that Assignor is the sole and lawful owner of the entire right, title and interest in and to the said invention and Applications above-mentioned, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise; that any proceeding in connection with said inventions, or said Application, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any provisionals, non-provisionals division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignor authorizes Assignee, its successors and assigns, or anyone it may properly designate, to apply for patents, in Assignee's own name if desired, in any and all foreign countries, and additionally to claim priority to the filing date of said United States application and to otherwise take advantage of the provisions of all international conventions;

**AND** Assignor authorizes and requests any official of any State outside of the United States whose duty consists of issuing patents, or other evidence of forms of any

industrial property protection on any aforesaid application to issue same to Assignee, its successors and assigns, in accordance herewith;

AND Assignor hereby requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

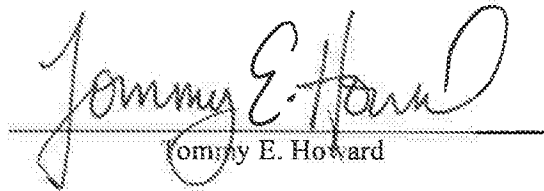
AND Assignor hereby grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office, or any other domestic or foreign office, for recordation of this document:

DYKEMA GOSSETT PLC

All practitioners at Customer Number 78086

AND Assignor acknowledges an obligation of assignment of this invention to Assignee at the time the invention was made.

ASSIGNOR:

  
Tommy E. Howard

Date: 10/20/2021

United States of America )  
State of \_\_\_\_\_ ) ss.:  
County of \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, before me personally came Tommy E. Howard, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

\_\_\_\_\_  
Notary Public