

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	GEORGE D. HARTMAN	02/18/2015
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	NOVIRA THERAPEUTICS INC.	
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<b>City:</b>	DOYLESTOWN	
<b>State/Country:</b>	PENNSYLVANIA	
<b>Postal Code:</b>	18902	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	16235210	
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<b>SIGNATURE:</b>	/BRIAN C. TRINQUE/	
<b>DATE SIGNED:</b>	07/16/2019	
<b>Total Attachments: 3</b>		
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**ASSIGNMENT**

WHEREAS, I, **George D. Hartman** of Lansdale, Pennsylvania, have invented a certain new and useful invention, described in the following U.S. patent application:

**COMBINATION THERAPY FOR TREATMENT  
OF HBV INFECTIONS**

**Application No. 14/615,292, filed February 5, 2015**

for which I am about to make or have made application for Patent of the United States;  
and

WHEREAS, **NOVIRA THERAPEUTICS, INC.**, a Delaware corporation having its principal place of business at 3805 Old Easton Road, Doylestown, PA 18902-8400, is desirous of acquiring all rights, title and interests in and to said invention, said applications, and in and to any and all Letters Patent which may be granted for or upon said invention and applications in the United States of America and anywhere in the world.

NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I **George D. Hartman**, have sold, assigned and transferred, and by these presents to sell, assign and transfer unto the said **NOVIRA THERAPEUTICS, INC.**, the full and exclusive right, title and interest, throughout the world, in, to and under the following:

- (a) said invention as fully set forth and described in the specification prepared, and executed by us preparatory to obtaining Letters Patent of the United States therefor;
- (b) said applications;
- (c) any and all refilings, divisions, continuations and continuations-in-part of said applications;
- (d) any and all Letters Patent of the United States of America which may issue from said applications, refilings, divisions, continuations and continuations-in-part;
- (e) any and all reissues and reexaminations of said Letters Patent of the United States of America;

- (f) any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America;
- (g) any and all refilings, divisions and continuations of said foreign-filed applications;
- (h) all claims, causes of action and damages for past infringement, if any, of said application;
- (i) any and all Letters Patent of countries foreign to the United States of America which may issue from the said foreign-filed applications, refilings, divisions and continuations; and
- (j) any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America.

I, **George D. Hartman** further agree that upon request I will provide promptly all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to **NOVIRA THERAPEUTICS, INC.** or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ALL of the above shall be held and enjoyed by said **NOVIRA THERAPEUTICS, INC.**, for its own use and benefit, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent in accordance with this Assignment.

This assignment is to have effect as of the filing date of February 5, 2015.

Feb 18, 2015  
Date:

George D. Hartman  
George D. Hartman

Signed in my presence and acknowledged to be an assignment of the application herein  
above referred to:

WITNESS

Michelle Zagnone  
Name  
Michelle Zagnone  
Signature

Feb 18, 2015  
Date