

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4027310

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HOUMAN ASHRAFIAN	08/16/2010
MICHAEL PAUL FRENNEAUX	08/09/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HEART METABOLICS LIMITED
<b>Street Address:</b>	46 NORTHGATE
<b>Internal Address:</b>	PRINCE ALBERT ROAD
<b>City:</b>	LONDON
<b>State/Country:</b>	UNITED KINGDOM
<b>Postal Code:</b>	NW8 7EG
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13839313
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)428-7045
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<b>ATTORNEY DOCKET NUMBER:</b>	51048-003006
<b>NAME OF SUBMITTER:</b>	KRISTINA BIEKER-BRADY, PH.D.
<b>SIGNATURE:</b>	/Kristina Bieker-Brady, Ph.D./
<b>DATE SIGNED:</b>	08/29/2016
<b>Total Attachments: 4</b>	
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source=Executed Assignment#page3.tif	



Attorney's Docket No.: 638-12

**PATENT**

For: ☒ U.S. and/or ☐ Foreign Rights  
For: ☒ U.S. Application;  
☐ U.S. Provisional Application;  
☐ U.S. Patent; or  
☐ PCT Application  
By: ☒ Inventors or ☐ Present Owners

### ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS: (inventor(s) or person(s) or entity(ies) who own the invention)

Houman Ashrafian  
Name

Michael P. Frenneaux  
Name

46 Northgate, Prince Albert Road  
Address

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London NW8 7EG, United Kingdom

Banchory AB31 4RU, United Kingdom

United Kingdom  
Nationality

United Kingdom  
Nationality

(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)

Recorded on \_\_\_\_\_

Reel \_\_\_\_\_  
Frame \_\_\_\_\_

hereby sells, assigns and transfers to

ASSIGNEE:

Heart Metabolics Limited  
(Type or print name of ASSIGNEE)

46 Northgate, Prince Albert Road  
Address

London NW8 7EG, United Kingdom

United Kingdom  
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE,

(complete one of the following)

- ☒ the entire right, title and interest  
☐ an undivided \_\_\_\_\_ percent (\_\_\_\_%) interest

for the United States and its territorial possessions

- ☐ and in all foreign countries, including all rights to claim priority,

in and to any and all improvements which are disclosed in the invention entitled:

**TREATMENT OF HF<sub>n</sub>EF**

and which is found in

(check and complete (a), (b), (c), (d), (e), (f), or (g))

- (a) ☒ U.S. patent application executed on even date herewith  
☒ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known: U.S. Application Serial No. 12/785,077 filed on May 21, 2010
- (b) ☐ U.S. patent application executed on \_\_\_\_\_
- (c) ☐ U.S. provisional application naming the above inventor(s) for the above-identified invention.  
☐ Express Mail label No.: \_\_\_\_\_, mailed: \_\_\_\_\_
- (d) ☐ U.S. application Serial No. \_\_\_\_\_ filed on \_\_\_\_\_
- (e) ☐ International application No. PCT/\_\_\_\_\_/\_\_\_\_\_
- (f) ☐ U.S. Patent No. \_\_\_\_\_ issued \_\_\_\_\_  
☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.
- (g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any re-issue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

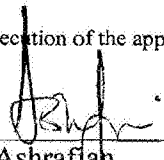
ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE 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.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this

**WARNING:** Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Date: X 16/8/10  
Date of signing

X   
Houman Ashraflan

Date: X 9/8/10  
Date of signing

X   
Michael P. Frenneaux

**NOTE:** No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

☒ Notarization or Legalization Page Added.

STATE OF  
SS  
COUNTY OF

On this       day of       ,       , before me personally appeared Houman Ashrafian to me personally known and known to me to be the person who signed the foregoing Assignment and acknowledged the signing of same as his/her free act and deed.

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

STATE OF  
SS  
COUNTY OF

On this       day of       ,       , before me personally appeared Michael P. Frenneaux to me personally known and known to me to be the person who signed the foregoing Assignment and acknowledged the signing of same as his/her free act and deed.

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