PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Patricia Oliver-Shaffer	03/29/2013
Gideon Shapiro	03/29/2013
Richard Chesworth	03/29/2013

RECEIVING PARTY DATA

Name:	EnVivo Pharmaceuticals, Inc.	
Street Address:	500 Arsenal Street	
City:	Watertown	
State/Country:	MASSACHUSETTS	
Postal Code:	02472	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13698759

CORRESPONDENCE DATA

Fax Number: 2026261700

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 2028795467

Email: kmhutchison@jonesday.com

Correspondent Name: Paul L. Sharer Address Line 1: 222 East 41st Street Address Line 2: c/o Jones Day

Address Line 4: New York, NEW YORK 10017

ATTORNEY DOCKET NUMBER:	013171-0004-999
NAME OF SUBMITTER:	Paul L. Sharer
Signature:	/Paul L Sharer/

REEL: 030143 FRAME: 0440

PATENT

Date:	04/03/2013
Total Attachments: 3 source=13698759USAssignment#page1.tif source=13698759USAssignment#page2.tif source=13698759USAssignment#page3.tif	

PATENT REEL: 030143 FRAME: 0441 Please return signed/recorded to: Jones Day Intellectual Property Group 51 Louisiana Avenue, N.W. Washington, D.C. 20001-2113 Attorney Reference: 013171-0004-999 Client Reference: EVP-52WO

ASSIGNMENT OF NON-PROVISIONAL APPLICATION

WHEREAS, the undersigned hereby:

INSERT NAME(S) OF INVENTOR(S)	(1) Patricia Oliver-Shaffer	(2) Gideon		
	(3) Richard Chesworth		continued on page 2	
(collectively hereina	after "ASSIGNOR") has/have made an invention of	entitled:		
TITLE OF INVENTION	A Crystalline Form of (R)-7-chloro-N-(Quinuclio Monohydrate	din-3-YL)benzo[B] thioph	ene-2-Carboxamide Hydrochloride	
for which applicatio	ns for Letters Patents of the United States of Ame	erica:		
	were executed on even date herewith and will were filed on 17 May 2011 as	I be filed in the U.S. Pa Application No. PCT		
AND WHEREAS,				
INSERT	EnVivo Pharmaceuticals, Inc.			
NAME(S) AND ADDRESS(ES) OF	500 Arsenal Street			
ASSIGNEE(S)	Watertown, Massachusetts 02472 United States of America			
(hereinafter "ASSIG	NEE"), desires to acquire an interest therein of the	ne above-identified inver	ition:	
•	REFORE, in consideration of good and valuable		·	
acknowledged, the	said ASSIGNOR, does hereby sell, assign and tra	ansfer unto ASSIGNEE,	its successors, assigns and legal	
	full and exclusive right, title and interest to the sa- resaid application, and to the said application and			
	portinuations, divisions, and renewals thereof, and			
thereon and all reiss	sues and extensions thereof; and all applications	for industrial property pr	otection, including, without limitation,	
	atents, utility models, and designs which may he I States, together with the right to file such applic			
right to claim for the	same the priority rights derived from said United	States application unde	r the Patent Laws of the United	
	onal Convention for the Protection of Industrial Pr			
	n which any such application is filed, as may be a f Patents to issue said Letters Patent to ASSIGN			
legal representatives	s;			
AND ASSI	SNOR hereby agrees, without further remuneration	on, to execute any pape	rs requested by ASSIGNEE, its	
	and legal representatives, deemed essential for and additionally, the undersigned further authoriz			
	t hereon any further identification necessary or d			
IN TESTIM	ONY WHEREOF, we hereunto set our respective	e signatures on the day	and year set forth below.	
INVEN	FOR SIGNATURES	DATE SIGNED	WITNESSES	
	1 1		0	
w Ari	Dwistelle	2 20 12	Elin Wills Cardida	
1) Name: Patricia	Oliver-Shaffer	3-29-13	Constant of Constants	
valie. Talifold offer ordanici y				
2)				
Name: Gideon	Shapiro			
3)	Chesworth			
Name: Richard	Olles MOLITI			

Please return signed/recorded to: Jones Day Intellectual Property Group 51 Louisiana Avenue, N.W. Washington, D.C. 20001-2113

Attorney Reference: 013171-0004-999 Client Reference: EVP-52WO

ASSIGNMENT OF NON-PROVISIONAL APPLICATION

WHEREAS, the undersigned hereby:

INSERT NAME(S) OF		(1) Patricia Oliver-Shaffer		(2) Gideon Shapiro		
INVENTOR(S)	(3) Richard Chesworth	-	x box if continued on page 2			
(collective	ely hereina	fter "ASSIGNOR") has/have made an inventio	n entitled:			
TITLE OF INVENTION		A Crystalline Form of (R)-7-chloro-N-(Quinuclidin-3-YL)benzo[B] thiophene-2-Carboxamide Hydrochloride Monohydrate				
for which	application	s for Letters Patents of the United States of A	merica:			
	(A) ☐ (B) ⊠	were executed on even date herewith and were filed on17 May 2011	will be filed i as Application	in the U.S. Patent & Trademark Office; or tion NoPCT/US2011/036844		
AND WHE	EREAS,					
INSERT NAME(S) AN ADDRESS(E: ASSIGNEE(S	S) OF	EnVivo Pharmaceuticals, Inc. 500 Arsenal Street Watertown, Massachusetts 02472 United States of America				
(hereinafte	er "ASSIGI	NEE"), desires to acquire an interest therein o	f the above-id	identified invention:		
representa described §119(e) ar thereon ar all applicat foreign to tright to cla States, the laws of the Commi legal repre Al successors hereby tranding.	aged, the solutions, the solutions for pathe United im for the solution fo	and ASSIGNOR, does nereby sell, assign and full and exclusive right, title and interest to the esaid application, and to the said application antinuations, divisions, and renewals thereof, are and extensions thereof; and all application tents, utility models, and designs which may lighted, states, together with the right to file such applicates, the priority rights derived from said United and Convention for the Protection of Industrial which any such application is filed, as may be patents to issue said Letters Patent to ASSIGNOR hereby agrees, without further remunerated legal representatives, deemed essential for	transfer unto said invention and all applications for industriations for all dications for its in the said of ASSIGNEE or ASSIGNEE dications for its industrial dications for all dications for	es on the day and year set forth below.		
1) Name: 2) Name:	Patricia C	ea Lapiro	03/29	-9/2013 / Slaghe		
s) Name:	Richard C	hesworth				

PATENT REEL: 030143 FRAME: 0443 Please return signed/recorded to: Jones Day Intellectual Property Group 51 Louisiana Avenue, N.W. Washington, D.C. 20001-2113

3) Name:

RECORDED: 04/03/2013

Attorney Reference: 013171-0004-999 Client Reference: EVP-52WO

ASSIGNMENT OF NON-PROVISIONAL APPLICATION

WHEREAS, the undersigned hereby: INSERT (1) Patricia Oliver-Shaffer Gideon Shapiro NAME(S) OF (3) Richard Chesworth x box if continued on page 2 INVENTOR(S) (collectively hereinafter "ASSIGNOR") has/have made an invention entitled: TITLE OF A Crystalline Form of (R)-7-chloro-N-(Quinuclidin-3-YL)benzo[B] thiophene-2-Carboxamide Hydrochloride INVENTION Monohydrate for which applications for Letters Patents of the United States of America: (A) were executed on even date herewith and will be filed in the U.S. Patent & Trademark Office; or (B) ⋈ were filed on 17 May 2011 as Application No. PCT/US2011/036844 AND WHEREAS, INSERT EnVivo Pharmaceuticals, Inc. NAME(S) AND 500 Arsenal Street ADDRÈSS(ES) OF ASSIGNEE(S) Watertown, Massachusetts 02472 United States of America (hereinafter "ASSIGNEE"), desires to acquire an interest therein of the above-identified invention; NOW, THEREFORE, in consideration of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to the said invention in the United States and all foreign countries, as described in the aforesaid application, and to the said application and all applications claiming priority thereto under 35 U.S.C. §119(e) and to all continuations, divisions, and renewals thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation. all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications for all forms of industrial property protection and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable, and ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; AND ASSIGNOR hereby agrees, without further remuneration, to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential for ASSIGNEE's full protection and title in and to the invention hereby transferred; and additionally, the undersigned further authorize(s) Jones Day, 51 Louisiana Avenue, N.W., Washington, D.C. 20001, to insert hereon any further identification necessary or desirable for recordation of this document. IN TESTIMONY WHEREOF, we hereunto set our respective signatures on the day and year set forth below. **INVENTOR SIGNATURES** DATE SIGNED WITNESSES 1) Patricia Oliver-Shaffer Name: 2) Name: Gideon Shapiro

PATENT

Rm. Carona

3/29/2013

REEL: 030143 FRAME: 0444