

Petition for *Inter Partes Review* of  
U.S. Patent No. 9,604,901 B2

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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LIQUIDIA TECHNOLOGIES, INC.,

Petitioner

v.

UNITED THERAPEUTICS CORPORATION,

Patent Owner

U.S. Patent No. 9,604,901

Issue Date: March 28, 2017

Title: Process to Prepare Treprostinil, the Active Ingredient in Remodulin®

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**DECLARATION OF JEFFREY D. WINKLER, PH.D.  
IN SUPPORT OF PETITION FOR *INTER PARTES* REVIEW  
OF U.S. PATENT NO. 9,604,901**

## Table of Contents

I.	INTRODUCTION.....	1
II.	QUALIFICATIONS.....	2
III.	MATERIALS CONSIDERED.....	3
IV.	PERSONS OF ORDINARY SKILL IN THE ART.....	4
V.	UNDERSTANDING OF LEGAL CONCEPTS.....	5
	A. Obviousness .....	5
	B. Product-By-Process Claims .....	6
VI.	OVERVIEW OF THE '901 PATENT .....	6
VII.	CLAIM INTERPRETATION.....	14
VIII.	THE '901 PATENT IS INVALID .....	14
	A. Summary .....	14
	B. The Synthesis of Treprostinil Was Well-Known.....	15
	C. Formation of a Carboxylate Salt from a Carboxylic Acid and the Addition of an Acid to a Carboxylic Salt to Regenerate the Carboxylic Acid is Standard Chemical Purification Known in the Art.....	18
	D. The Claimed Treprostinil and Treprostinil Diethanolamine Salt Disclosed in the '901 Patent is Not Distinct from the Prior Art.....	20
IX.	PHARES RENDERS OBVIOUS THE CLAIMS OF THE '901 PATENT.....	21
	A. Overview of Phares.....	21
	B. Independent Claim 1 .....	25
	1. Phares discloses claim element 1[a] .....	25
	2. Phares discloses claim element 1[b].....	29
	3. Phares discloses claim element 1[c] .....	32
	4. Phares renders obvious claim element 1[d].....	33

## Table of Contents

5.	Phares discloses claim element 1[e] .....	35
6.	Claim element 1[f] is optional and obvious to a POSA .....	35
7.	Phares renders obvious claim element 1[g] .....	36
C.	Dependent Claim 2 .....	37
D.	Dependent Claims 3 and 4 .....	37
E.	Dependent Claim 5 .....	39
F.	Dependent Claim 6 .....	40
G.	Dependent Claim 7 .....	42
H.	Dependent Claim 8 .....	43
1.	Phares discloses claim elements 8[a] and 8[b] .....	43
2.	Phares discloses claim element 8[c] .....	44
3.	Phares renders obvious claim element 8[d] .....	46
4.	Phares discloses claim element 8[e] .....	47
5.	Claim element 8[f] is optional and obvious to a POSA .....	47
I.	Dependent Claim 9 .....	49
X.	MORIARTY IN COMBINATION WITH PHARES RENDERS OBVIOUS THE CLAIMS OF THE '901 PATENT .....	49
A.	Overview of Moriarty .....	49
B.	Motivation to Combine Moriarty with Phares .....	51
C.	Independent Claim 1 .....	53
1.	Moriarty in combination with Phares teaches claim element 1[a] .....	53
2.	Moriarty in combination with Phares teaches claim element 1[b] .....	57
3.	Moriarty in combination with Phares teaches claim element 1[c] .....	59
4.	Phares renders obvious claim element 1[d] .....	61

## Table of Contents

5. Phares discloses claim element 1[e] .....	63
6. Claim element 1[f] is optional and obvious to a POSA .....	63
7. Moriarty in combination with Phares teaches claim element 1[g] .....	64
D. Dependent Claim 2 .....	66
E. Dependent Claims 3 and 4 .....	66
F. Dependent Claim 5 .....	69
G. Dependent Claim 6 .....	69
H. Dependent Claim 7 .....	72
I. Dependent Claim 8 .....	73
1. Moriarty in combination with Phares teaches claim elements 8[a]-[b] .....	73
2. Moriarty in combination with Phares teaches claim element 8[c] .....	74
3. Moriarty in combination with Phares teaches claim element 8[d] .....	76
4. Phares discloses claim element 8[e] .....	78
5. Claim element 8[f] is optional and obvious to a POSA .....	78
J. Dependent Claim 9 .....	79
XI. NO SECONDARY CONSIDERATIONS OF NON-OBVIOUSNESS .....	80
XII. CONCLUSION .....	80

I, Jeffrey D. Winkler, hereby declare and state as follows:

## I. INTRODUCTION

1. I am over the age of eighteen and otherwise competent to make this declaration.

2. I have been retained by counsel for the Petitioner to offer technical opinions with respect to U.S. Patent No. 9,604,901 (“the ’901 patent”) and prior art references cited in *inter partes* review proceedings for the ’901 patent.

3. I am being compensated for my time in connection with this IPR at my standard consulting rate, which is \$850 per hour. My compensation is not dependent on the outcome of, or the content of my testimony in, the present IPR.

4. I have reviewed the ’901 patent and, in assessing it, I have considered the teachings of the scientific literature before December 17, 2007, in light of general knowledge in the art before that date.

5. This declaration presents my opinion that Claims 1-9 of the ’901 patent would have been obvious to a person of ordinary skill in the art before December 17, 2007. The technology of the ’901 patent involves nothing more than basic organic chemistry techniques – in my view, “organic chemistry 101” – all of which were well-known in the art prior to December 17, 2007.

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