Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Vidyadhar M. Paradkar	09/24/2008
Marc Brescia	09/17/2008
Ray James	09/17/2008
Jinqi Liu	09/17/2008
Ruiyan Liu	09/21/2008
James Robert Merritt	09/17/2008
Michelle Morris	09/19/2008
Michael J. Ohlmeyer	09/18/2008
Chongwu Zhang	09/16/2008
Rui Zhang	09/17/2008

RECEIVING PARTY DATA

Name:	Pharmacopeia, Inc.
Street Address:	3000 Eastpark Blvd.
City:	Cranbury
State/Country:	NEW JERSEY
Postal Code:	08512

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	60977675
Application Number:	12245305

CORRESPONDENCE DATA

Fax Number: (518)452-5579

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

Phone: 518-452-5600 Email: jmp@hrfmlaw.com

Correspondent Name: Heslin Rothenberg Farley & Mesiti, P.C.

PATENT

500672836 **REEL: 021666 FRAME: 0228**

Address Line 1: 5 Columbia Circle

Address Line 4: Albany, NEW YORK 12303

NAME OF SUBMITTER:

Philip E. Hansen

Total Attachments: 37

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> PATENT REEL: 021666 FRAME: 0229

ASSIGNMENT

WHEREAS, We,

Marc Brescia, a citizen of the United States of America, residing at 1606 Blossom Circle, Dayton, New Jersey 08810 USA;

Ray James, a citizen of the United States of America, residing at 6263 Sterling Avenue, Bensalem, New Jersey 19020 USA;

Jinqi Liu, a citizen of the United States of America, residing at 66 Franklin Drive, Plainsboro, New Jersey 08536 USA;

Ruiyan Liu, a citizen of the United States of America residing at 496 Kings Road, Yardley, Pennsylvania 19067 USA;

James Robert Merritt, a citizen of the United States of America, residing at 14 Gloucester Lane, Ewing, New Jersey 08618 USA;

Michelle Morris, a citizen of the United States of America, residing at 10 Carla Way Lawrenceville, New Jersey 08648 USA;

Michael J. Ohlmeyer, a citizen of the United States of America, residing at 6 Beechtree Lane, Plainsboro, New Jersey 08536 USA;

Vidyadhar M. Paradkar, a citizen of the United States of America, residing at 3 Pine Ridge Drive, Somerville, New Jersey 08876 USA;

Chongwu Zhang, a citizen of P.R. China, residing at 503 Yarrow Circle, Dayton, New Jersey 08810 USA; and

Rui Zhang, a citizen of P. R. China, residing at 7402 Tamarron Drive, Plainsboro, New Jersey 08536 USA;

have invented certain new and useful improvements in

ORTHO PYRROLIDINE, BENZYL-SUBSTITUTED HETEROCYCLE CCR1 ANTAGONISTS FOR AUTOIMMUNE DISEASES & INFLAMMATION

which are the subject of United States Provisional Patent Application Serial Number 60/977,675 and filed with the United States Patent and Trademark Office on October 5, 2007; and

WHEREAS, **Pharmacopeia**, **Inc.** having offices at 3000 Eastpark Blvd., Cranbury, New Jersey 08512, is desirous of obtaining the entire right, title and interest in, to and under said improvements and said application; and

Page 1 of 7

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which We hereby acknowledge, We, Marc Brescia, Ray James, Jinqi Liu, Ruiyan Liu, James Robert Merritt, Michelle Morris, Michael J. Ohlmeyer, Vidyadhar M. Paradkar, Chongwu Zhang, and Rui Zhang do hereby assign, transfer and set over, unto Pharmacopeia, Inc., its successors, legal representatives and assigns, the entire right title and interest in, to and under said improvements, of said provisional application - including the right to claim priority to said application - all non-provisional patent applications arising therefrom, and all divisions, renewals and continuations thereof, and all Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to Pharmacopeia, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND WE HEREBY covenant that We have full right to convey the entire interest herein assigned, and that We have not executed, and will not execute, any agreement in conflict herewith:

AND WE HEREBY further covenant and agree that We will communicate to **Pharmacopeia, Inc.**, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid **Pharmacopeia**, **Inc.**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

AND WE HEREBY grant Heslin Rothenberg Farley & Mesiti, P.C. 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 for recordation of this document.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of, 200
Marc Brescia
STATE OF NEW JERSEY On this day of September, 200 before me personally came Marc Brescia, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he/she acknowledged the same to be his free act and deed.
Melanu Rice Notary Public
MELANIE J. RICE A Notary Public of New Jersey My Commission Expires June 12, 2012 IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of, 200 Ray James
STATE OF NEW JERSEY) COUNTY OF Millise)ss: On this day of Jeptone , 200 before me personally came Ray James, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he/she acknowledged the same to be his free act and deed.
Notary Rublic Notary Rublic
A Notary Public of New Jersey My Commission Expires June 12, 2012

Page 3 of 7

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of, 200
Jinqi Liu,
STATE OF NEW JERSEY COUNTY OF Middle Self) On this day of day of the determinant of the person of the same of the person of the same of the foregoing instrument, and he/she acknowledged the same to be his free act and deed.
MELANIE J. RICE A Notary Public of New Jersey My Commission Expires June 12, 2012
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of, 200
Ruiyan Liu
STATE OF NEW JERSEY))ss: COUNTY OF)
On thisday of, 200, before me personally came Ruiyan Liu, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he/she acknowledged the same to be his free act and deed.
Notary Public

. IN TESTIMONY WHEREOF, I hereur	nto set my hand and seal thisday of
	Man Il Man
	James Robert Merritt
	James Robert Monne
CONTROL OF MANY HAD CLEAN	
STATE OF NEW JERSEY)	
COUNTY OF	, 200 , before me personally came
12 1 th c	4
On this day of	, 200_0, before me personally came
lames Robert Merritt, to me known and known	wn to me to be the person of that hame, who
	d he/she acknowledged the same to be his free act
and deed.	
/ \	A alla Miliano
	Clark a
N	otary Public (
MELANIE J. RICE A Notary Public of New Jersey	\cup
My Commission Expires June 12, 2012	
IN TESTIMONY WHEREOF, I hereu	nto set my hand and seal this day of
	Michelle Morris
STATE OF NEW JERSEY)	
)ss:	
COUNTY OF)	
	200 hefere me personally come
On thisday of	, 200, before me personally came me to be the person of that name, who signed and
sealed the foregoing instrument and he/she ac	knowledged the same to be his free act and deed.
scaled the foregoing metrament, and norshe ac	
	D 11
, n	lotary Public

		Michael J. Ohlmeyer
STATE OF NEW JERSEY))ss:	
COUNTY OF)	
Michael J. Ohlmever, to me known	own and know	, 200, before me personally came on to me to be the person of that name, who signed acknowledged the same to be his free act and
	N	Totary Public
IN TESTIMONY WHER, 200		nto set my hand and seal this day of Vidyadhar M. Paradkar
		vidyadnar W. Faraukar
STATE OF NEW JERSEY))ss:	
COUNTY OF	<u>`</u>	
Vidvadhar M. Paradkar, to me	e known and k	, 200, before me personally came mown to me to be the person of that name, who ad he/she acknowledged the same to be his free act
		Notary Public

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Page 6 of 7

IN TESTIMONY WHEREOF, I hereunto s	et my hand and seal this day of
	Change thang
	Chongwu Zhang,
STATE OF NEW JERSEY COUNTY OF	to be the person of that name, who signed and wledged the same to be his free act and deed.
Me	lanthe y Public
	MELANIE J. RICE A Notary Public of New Jersey My Commission Expires June 12, 2012
IN TESTIMONY WHEREOF, I hereunto s, 200	set my hand and seal this day of Rui Zhang
STATE OF NEW JERSEY) COUNTY OF Adams)ss:	
On this day of September Rui Zhang, to me known and known to me to be to the foregoing instrument, and he/she acknowledge	, 200, before me personally came the person of that name, who signed and sealed d the same to be his free act and deed.
Notar	Melany Lier ry Public

1.

Page 7 of 7

MELANIE J. RICE A Notary Public of New Jersey My Commission Expires June 12, 2012

ASSIGNMENT

To:90016094523672

WHEREAS, We.

Marc Brescia, a citizen of the United States of America, residing at 1606 Blossom Circle, Dayton, New Jersey 08810 USA;

Ray James, a citizen of the United States of America, residing at 6263 Sterling Avenue, Bensalem, New Jersey 19020 USA;

Jinqi Liu, a citizen of the United States of America, residing at 66 Franklin Drive, Plainsboro, New Jersey 08536 USA;

Ruiyan Liu, a citizen of the United States of America residing at 496 Kings Road, Yardley, Pennsylvania 19067 USA;

James Robert Merritt, a citizen of the United States of America, residing at 14 Gloucester Lane, Ewing, New Jersey 08618 USA;

Michelle Morris, a citizen of the United States of America, residing at 10 Carla Way Lawrenceville, New Jersey 08648 USA;

Michael J. Ohlmeyer, a citizen of the United States of America, residing at 6 Beechtree Lane, Plainsboro, New Jersey 08536 USA;

Vidyadhar M. Paradkar, a citizen of the United States of America, residing at 3 Pine Ridge Drive, Somerville, New Jersey 08876 USA;

Chongwu Zhang, a citizen of P.R. China, residing at 503 Yarrow Circle, Dayton, New Jersey 08810 USA; and

Rui Zhang, a citizen of P. R. China, residing at 7402 Tamarron Drive, Plainsboro, New Jersey 08536 USA;

have invented certain new and useful improvements in

ORTHO PYRROLIDINE, BENZYL-SUBSTITUTED HETEROCYCLE CCR1 ANTAGONISTS FOR AUTOIMMUNE DISEASES & INFLAMMATION

which are the subject of United States Provisional Patent Application Serial Number 60/977,675 and filed with the United States Patent and Trademark Office on October 5, 2007; and

WHEREAS, **Pharmacopeia**, **Inc.** having offices at 3000 Eastpark Blvd., Cranbury, New Jersey 08512, is desirous of obtaining the entire right, title and interest in, to and under said improvements and said application; and

Page 1 of 9

From:Dakota Eurocentral To:90016094523672 18/09/2008 20:48 #243 P.003/010

Docket No. 1073.120P

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which We hereby acknowledge, We, Marc Brescia, Ray James, Jinqi Liu, Ruiyan Liu, James Robert Merritt, Michelle Morris, Michael J. Ohlmeyer, Vidyadhar M. Paradkar, Chongwu Zhang, and Rui Zhang do hereby assign, transfer and set over, unto Pharmacopeia, inc., its successors, legal representatives and assigns, the entire right title and interest in, to and under said improvements, of said provisional application - including the right to claim priority to said application - all nonprovisional patent applications arising therefrom, and all divisions, renewals and continuations thereof, and all Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to Pharmacopeia, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND WE HEREBY covenant that We have full right to convey the entire interest herein assigned, and that We have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that We will communicate to **Pharmacopeia, Inc.**, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid **Pharmacopeia**, **Inc.**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

AND WE HEREBY grant Heslin Rothenberg Farley & Mesiti, P.C. 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 for recordation of this document.

Page 2 of 9

From: Dakota Eurocentral To:90016094523672 18/09/2008 20:48 #243 P.004/010

Docket No. 1073.120P

IN TESTIMONY WHEREOF, I hereu, 200	unto set my hand and seal this day of
	Marc Brescia
STATE OF NEW JERSEY) ss: COUNTY OF) On thisday of came Marc Brescia, to me known and known signed and sealed the foregoing instrumenthis free act and deed.	, 200, before me personally wn to me to be the person of that name, who t, and he/she acknowledged the same to be
N.	otary Public
IN TESTIMONY WHEREOF, I here	unto set my hand and seal this day of
	Ray James
STATE OF NEW JERSEY) ss: COUNTY OF) On thisday of came Ray James, to me known and know signed and sealed the foregoing instrumer his free act and deed.	, 200, before me personally on to me to be the person of that name, who nt, and he/she acknowledged the same to be
<u>N</u>	lotary Public

Page 3 of 9

IN TESTIMONY WHEREOF, I I	hereunto set my hand and seal thisday of
	Jingi Liu
STATE OF NEW JERSEY))ss:	
COUNTY OF)
On thisday of came Jinqi Liu , to me known and kno signed and sealed the foregoing instru his free act and deed.	, 200, before me personally own to me to be the person of that name, who ument, and he/she acknowledged the same to be
	Notary Public
SIGNED thisday of	2008.
	Ruiyan Liu
Witness	-
Witness	-

Page 4 of 9

From:Dakota Eurocentral To:90016094523672 18/09/2008 20:49 #243 P.006/010

Docket No. 1073.120P

Page 5 of 9

PATENT REEL: 021666 FRAME: 0241

			set my hand and seal this day of
			James Robert Merritt
STATE OF NEW JERSEY COUNTY OFday of came James Robert Merritt, to name, who signed and sealed to same to be his free act and deep	me know) wn and bing ins	, 200_, before me personally known to me to be the person of that strument, and he/she acknowledged the
		Notary	Public
IN TESTIMONY WHERE		reunto	set my hand and seal this day of
			Michelle Morris
STATE OF NEW JERSEY COUNTY OF day of came Michelle Morris, to me k who signed and sealed the fore be his free act and deed.	nown an) d know strume	200, before me personally n to me to be the person of that name, and he/she acknowledged the same to

Page 6 of 9

SIGNED this 18 day of September 2008.
Michael J. Ohlmyn Michael J. Ohlmeyer
Vitness 09/18/2008
<u>ONUSCU 18/09/08</u> Vitness
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of
, 200
Vidyadhar M. Paradkar
Vidyadhar M. Paradkar STATE OF NEW JERSEY)

Page 7 of 9

IN TESTIMONY WHEREOF, I here	eunto set my hand and seal this day of
- 	Chongwu Zhang,
STATE OF NEW JERSEY) ss: COUNTY OF	, 200, before me personally d known to me to be the person of that name, rument, and he/she acknowledged the same to
•	Notary Public
IN TESTIMONY WHEREOF, I here	eunto set my hand and seal thisday of
	Ruî Zhang
On thisday of), 200, before me personally wn to me to be the person of that name, who ent, and he/she acknowledged the same to be
	Notary Public

Page 8 of 9

From:Dakota Eurocentra! To:90016094523672 18/09/2008 20:50 #243 P.010/010

Docket No. 1073.120P

Page 9 of 9

ASSIGNMENT

WHEREAS, We,

Marc Brescia, a citizen of the United States of America, residing at 1606 Blossom Circle, Dayton, New Jersey 08810 USA;

Ray James, a citizen of the United States of America, residing at 6263 Sterling Avenue, Bensalem, New Jersey 19020 USA;

Jinqi Liu, a citizen of the United States of America, residing at 66 Franklin Drive, Plainsboro, New Jersey 08536 USA;

Ruiyan Liu, a citizen of the United States of America residing at 496 Kings Road, Yardley, Pennsylvania 19067 USA;

James Robert Merritt, a citizen of the United States of America, residing at 14 Gloucester Lane, Ewing, New Jersey 08618 USA;

Michelle Morris, a citizen of the United States of America, residing at 10 Carla Way Lawrenceville, New Jersey 08648 USA;

Michael J. Ohlmeyer, a citizen of the United States of America, residing at 6 Beechtree Lane, Plainsboro, New Jersey 08536 USA;

Vidyadhar M. Paradkar, a citizen of the United States of America, residing at 3 Pine Ridge Drive, Somerville, New Jersey 08876 USA;

Chongwu Zhang, a citizen of P.R. China, residing at 503 Yarrow Circle, Dayton, New Jersey 08810 USA; and

Rui Zhang, a citizen of P. R. China, residing at 7402 Tamarron Drive, Plainsboro, New Jersey 08536 USA;

have invented certain new and useful improvements in

ORTHO PYRROLIDINE, BENZYL-SUBSTITUTED HETEROCYCLE CCR1 ANTAGONISTS FOR AUTOIMMUNE DISEASES & INFLAMMATION

which are the subject of United States Provisional Patent Application Serial Number 60/977,675 and filed with the United States Patent and Trademark Office on October 5, 2007; and

WHEREAS, **Pharmacopeia**, **Inc.** having offices at 3000 Eastpark Blvd., Cranbury, New Jersey 08512, is desirous of obtaining the entire right, title and interest in, to and under said improvements and said application; and

Page 1 of 7

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which We hereby acknowledge, We, Marc Brescia, Ray James, Jinqi Liu, Ruiyan Liu, James Robert Merritt, Michelle Morris, Michael J. Ohlmeyer, Vidyadhar M. Paradkar, Chongwu Zhang, and Rui Zhang do hereby assign, transfer and set over, unto Pharmacopeia, Inc., its successors, legal representatives and assigns, the entire right title and interest in, to and under said improvements, of said provisional application - including the right to claim priority to said application - all non-provisional patent applications arising therefrom, and all divisions, renewals and continuations thereof, and all Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to Pharmacopeia, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument;

Ý

AND WE HEREBY covenant that We have full right to convey the entire interest herein assigned, and that We have not executed, and will not execute, any agreement in conflict herewith:

AND WE HEREBY further covenant and agree that We will communicate to **Pharmacopeia, Inc.**, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid **Pharmacopeia**, **Inc.**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

AND WE HEREBY grant Heslin Rothenberg Farley & Mesiti, P.C. 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 for recordation of this document.

	EOF, I hereunto set my hand and seal this day of
	Marc Brescia
STATE OF NEW JERSEY)
COUNTY OF)ss:)
On thisday of	, 200, before me personally came known to me to be the person of that name, who signed and and he/she acknowledged the same to be his free act and deed.
	Notary Public
IN TESTIMONY WHE	REOF, I hereunto set my hand and seal this day of
	Ray James
STATE OF NEW JERSEY))ss:
COUNTY OF)
On thisday of Ray James, to me known and k	, 200, before me personally came nown to me to be the person of that name, who signed and sealed/she acknowledged the same to be his free act and deed.
	Notary Public

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Page 3 of 7

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this day of, 200
Jinqi Liu
STATE OF NEW JERSEY))ss: COUNTY OF)
On thisday of, 200, before me personally came Jinqi Liu , to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he/she acknowledged the same to be his free act and deed.
Notary Public
SIGNED this 2/se_day of September 2008.
Laur W. Deld
Witness

PATENT REEL: 021666 FRAME: 0249

IN TESTIMONY WHEREO, 200	OF, I hereunto set my hand and seal this day of
	James Robert Merritt
STATE OF NEW JERSEY))ss:
COUNTY OF	_)
James Robert Merritt, to me know	, 200, before me personally came wn and known to me to be the person of that name, who trument, and he/she acknowledged the same to be his free act
	Notary Public
SIGNED thisday of	2008
	Michelle Morris
Witness	_
Witness	_
SIGNED thisday of	2008.
	Michael J. Ohlmeyer

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Page 5 of 7

Witness		
Witness		
IN TESTIMONY WHE		o set my hand and seal this day of
		Vidyadhar M. Paradkar
STATE OF NEW JERSEY))ss:	
COUNTY OF)	
On thisday of Vidyadhar M. Paradkar, to m	e known and kno	, 200, before me personally came own to me to be the person of that name, who he/she acknowledged the same to be his free ac
	No	tary Public

	Chongwu Zhang,
STATE OF NEW JERSEY)
COUNTY OF)ss:)
On thisday of	, 200, before me personally came and known to me to be the person of that name, who signed and
sealed the foregoing instrument,	and he/she acknowledged the same to be his free act and deed.
	Notary Public
	REOF, I hereunto set my hand and seal this day of
, 200	Rui Zhang
STATE OF NEW JERSEY))ss:
COUNTY OF	•
Rui Zhang, to me known and k	, 200, before me personally came nown to me to be the person of that name, who signed and sealed e/she acknowledged the same to be his free act and deed.
	Notary Public

ASSIGNMENT

WHEREAS, We,

1

Marc Brescia, a citizen of the United States of America, residing at 1606 Blossom Circle, Dayton, New Jersey 08810 USA;

Ray James, a citizen of the United States of America, residing at 6263 Sterling Avenue, Bensalem, New Jersey 19020 USA;

Jinqi Liu, a citizen of the United States of America, residing at 66 Franklin Drive, Plainsboro, New Jersey 08536 USA;

Ruiyan Liu, a citizen of the United States of America residing at 496 Kings Road, Yardley, Pennsylvania 19067 USA;

James Robert Merritt, a citizen of the United States of America, residing at 14 Gloucester Lane, Ewing, New Jersey 08618 USA;

Michelle Morris, a citizen of the United States of America, residing at 10 Carla Way Lawrenceville, New Jersey 08648 USA;

Michael J. Ohlmeyer, a citizen of the United States of America, residing at 6 Beechtree Lane, Plainsboro, New Jersey 08536 USA;

Vidyadhar M. Paradkar, a citizen of the United States of America, residing at 3 Pine Ridge Drive, Somerville, New Jersey 08876 USA;

Chongwu Zhang, a citizen of P.R. China, residing at 503 Yarrow Circle, Dayton, New Jersey 08810 USA; and

Rui Zhang, a citizen of P. R. China, residing at 7402 Tamarron Drive, Plainsboro, New Jersey 08536 USA;

have invented certain new and useful improvements in

ORTHO PYRROLIDINE, BENZYL-SUBSTITUTED HETEROCYCLE CCR1 ANTAGONISTS FOR AUTOIMMUNE DISEASES & INFLAMMATION

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WHEREAS, **Pharmacopeia**, **Inc.** having offices at 3000 Eastpark Blvd., Cranbury, New Jersey 08512, is desirous of obtaining the entire right, title and interest in, to and under said improvements and said application; and

Page 1 of 7

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which We hereby acknowledge, We, Marc Brescia, Ray James, Jinqi Liu, Ruiyan Liu, James Robert Merritt, Michelle Morris, Michael J. Ohlmeyer, Vidyadhar M. Paradkar, Chongwu Zhang, and Rui Zhang do hereby assign, transfer and set over, unto Pharmacopeia, Inc., its successors, legal representatives and assigns, the entire right title and interest in, to and under said improvements, of said provisional application - including the right to claim priority to said application - all non-provisional patent applications arising therefrom, and all divisions, renewals and continuations thereof, and all Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to Pharmacopeia, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument;

٢,

AND WE HEREBY covenant that We have full right to convey the entire interest herein assigned, and that We have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that We will communicate to **Pharmacopeia**, **Inc.**, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid **Pharmacopeia**, **Inc.**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

AND WE HEREBY grant Heslin Rothenberg Farley & Mesiti, P.C. 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 for recordation of this document.

	Marc Brescia
STATE OF NEW JERSEY)
COUNTY OF)ss:)
Marc Brescia, to me known and	, 200, before me personally came d known to me to be the person of that name, who signed and and he/she acknowledged the same to be his free act and deed.
	Notary Public
IN TESTIMONY WHEI	REOF, I hereunto set my hand and seal this day of
	Ray James
STATE OF NEW JERSEY))ss:
COUNTY OF)
Ray James, to me known and k	, 200, before me personally came nown to me to be the person of that name, who signed and sealed each acknowledged the same to be his free act and deed.

Page 3 of 7

IN TESTIMONY WHEREO	F, I hereunto set my hand and seal this day of
	Jinqi Liu
STATE OF NEW JERSEY))ss:
COUNTY OF	.)
On thisday of Jinqi Liu, to me known and known the foregoing instrument, and he/she	, 200, before me personally came to me to be the person of that name, who signed and sealed acknowledged the same to be his free act and deed.
	Notary Public
SIGNED thisday of _	2008.
	Ruiyan Liu
	_
Witness	
Witness	-

IN TESTIMONY WHEE, 200	REOF, I hereunto set my hand and seal this day of
	James Robert Merritt
STATE OF NEW JERSEY))ss:
COUNTY OF	·
On thisday of James Robert Merritt, to me k signed and sealed the foregoing and deed.	
i	Notary Public
SIGNED this 19 day	of <u>September</u> 2008 Wille Voni
Witness Witness	
SIGNED thisday	of2008.
	Michael J. Ohlmeyer

PATENT REEL: 021666 FRAME: 0257

Witness		
Witness		
	REOF, I hereur	nto set my hand and seal this day of
		Vidyadhar M. Paradkar
STATE OF NEW JERSEY))ss:	
COUNTY OF)	
Vidyadhar M. Paradkar, to me	e known and ki	, 200, before me personally came nown to me to be the person of that name, who d he/she acknowledged the same to be his free act
	N	otary Public

IN TESTIMONY WHERE, 200	EOF, I hereunto set my hand and seal this day of
	Chongwu Zhang,
STATE OF NEW JERSEY)
COUNTY OF)ss:)
Chongwu Zhang , to me known a	, 200, before me personally came nd known to me to be the person of that name, who signed and nd he/she acknowledged the same to be his free act and deed.
	Notary Public
IN TESTIMONY WHERI, 200	EOF, I hereunto set my hand and seal this day of
	Rui Zhang
STATE OF NEW JERSEY COUNTY OF))ss:)
On thisday of Rui Zhang, to me known and known	, 200, before me personally came own to me to be the person of that name, who signed and sealed she acknowledged the same to be his free act and deed.
	Notary Public

Page 7 of 7

ASSIGNMENT

WHEREAS, We,

Marc Brescia, a citizen of the United States of America, residing at 1606 Blossom Circle, Dayton, New Jersey 08810 USA;

Ray James, a citizen of the United States of America, residing at 6263 Sterling Avenue, Bensalem, New Jersey 19020 USA;

Jinqi Liu, a citizen of the United States of America, residing at 66 Franklin Drive, Plainsboro, New Jersey 08536 USA;

Ruiyan Liu, a citizen of the United States of America residing at 496 Kings Road, Yardley, Pennsylvania 19067 USA;

James Robert Merritt, a citizen of the United States of America, residing at 14 Gloucester Lane, Ewing, New Jersey 08618 USA;

Michelle Morris, a citizen of the United States of America, residing at 10 Carla Way Lawrenceville, New Jersey 08648 USA;

Michael J. Ohlmeyer, a citizen of the United States of America, residing at 6 Beechtree Lane, Plainsboro, New Jersey 08536 USA;

Vidyadhar M. Paradkar, a citizen of the United States of America, residing at 3 Pine Ridge Drive, Somerville, New Jersey 08876 USA;

Chongwu Zhang, a citizen of P.R. China, residing at 503 Yarrow Circle, Dayton, New Jersey 08810 USA; and

Rui Zhang, a citizen of P. R. China, residing at 7402 Tamarron Drive, Plainsboro, New Jersey 08536 USA;

have invented certain new and useful improvements in

ORTHO PYRROLIDINE, BENZYL-SUBSTITUTED HETEROCYCLE CCR1 ANTAGONISTS FOR AUTOIMMUNE DISEASES & INFLAMMATION

which are the subject of United States Provisional Patent Application Serial Number 60/977,675 and filed with the United States Patent and Trademark Office on October 5, 2007; and

WHEREAS, Pharmacopeia, Inc. having offices at 3000 Eastpark Blvd., Cranbury, New Jersey 08512, is desirous of obtaining the entire right, title and interest in, to and under said improvements and said application; and

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PATENT REEL: 021666 FRAME: 0260

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which We hereby acknowledge, We, Marc Brescia, Ray James, Jinqi Liu, Ruiyan Liu, James Robert Merritt, Michelle Morris, Michael J. Ohlmeyer, Vidyadhar M. Paradkar, Chongwu Zhang, and Rui Zhang do hereby assign, transfer and set over, unto Pharmacopeia, Inc., its successors, legal representatives and assigns, the entire right title and interest in, to and under said improvements, of said provisional application - including the right to claim priority to said application - all non-provisional patent applications arising therefrom, and all divisions, renewals and continuations thereof, and all Letters Patent which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and We hereby authorize and request the Commissioner of Patents of the United States, and any Official of any countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to Pharmacopeia, Inc., its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND WE HEREBY covenant that We have full right to convey the entire interest herein assigned, and that We have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that We will communicate to **Pharmacopeia, Inc.**, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid **Pharmacopeia, Inc.**, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

AND WE HEREBY grant Heslin Rothenberg Farley & Mesiti, P.C. 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 for recordation of this document.

IN TESTIMONY WHER, 200	EOF, I hereunto set my hand and seal this day of
	Marc Brescia
STATE OF NEW JERSEY)
COUNTY OF)ss:)
On thisday of	, 200_, before me personally came known to me to be the person of that name, who signed and nd he/she acknowledged the same to be his free act and deed.
	Notary Public
IN TESTIMONY WHERE	OF, I hereunto set my hand and seal this day of
-	Ray James
STATE OF NEW JERSEY COUNTY OF))ss:)
On thisday of	, 200, before me personally came wn to me to be the person of that name, who signed and sealed ne acknowledged the same to be his free act and deed.
	Notary Public

Page 3 of 7

IN TESTIMONY WHEREOF, 200	I hereunto set my hand and seal this day of
	Jingi Liu
STATE OF NEW JERSEY	
COUNTY OF)ss	2:
On thisday of Jinqi Liu , to me known and known to n the foregoing instrument, and he/she acl	, 200, before me personally came ne to be the person of that name, who signed and sealed knowledged the same to be his free act and deed.
	Notary Public
SIGNED thisday of	2008.
	Ruiyan Liu
Witness	
Witness	

IN TESTIMONY WHEREO, 200	F, I hereunto set my hand and seal this day of
	James Robert Merritt
STATE OF NEW JERSEY)
COUNTY OF)ss: .)
On thisday of	, 200, before me personally came n and known to me to be the person of that name, who ument, and he/she acknowledged the same to be his free act
	Notary Public
SIGNED thisday of	2008
	Michelle Morris
Witness	
Witness	

SIGNED this	day of	2008.	
·		Michael J. Ohlmeyer	
Witness			
Witness			
SIGNED this 2	th 4 day of 5	eptember ₂₀₀₈ .	

Vidyadhar M. Paradkar

Witness (ALKA PARADKAR)
Witness (AMEYA PARADKAR)
Witness

Page 6 of 7

IN TESTIMONY WHERE, 200	EOF, I hereunto set my hand and seal this day of
	Chongwu Zhang,
STATE OF NEW JERSEY)
COUNTY OF)ss:)
On thisday of Chongwu Zhang, to me known an sealed the foregoing instrument, an	, 200, before me personally came and known to me to be the person of that name, who signed and he/she acknowledged the same to be his free act and deed.
	Notary Public
IN TESTIMONY WHEREO	OF, I hereunto set my hand and seal this day of
	Rui Zhang
STATE OF NEW JERSEY COUNTY OF))ss: _)
On thisday of Rui Zhang, to me known and know the foregoing instrument, and he/she	, 200, before me personally came on to me to be the person of that name, who signed and sealed acknowledged the same to be his free act and deed.
	Notary Public

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PATENT REEL: 021666 FRAME: 0266