Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Peter Xianqi Wang	12/10/2004
Frank W. Moser	12/08/2004
Gary L. Cantrell	12/10/2004
Daniel P. Magparangalan	12/08/2004

RECEIVING PARTY DATA

Name:	Mallinckrodt Inc.
Street Address:	675 McDonnell Boulevard
City:	Hazelwood
State/Country:	MISSOURI
Postal Code:	63042

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11718263

CORRESPONDENCE DATA

Fax Number: (314)654-3156

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

Phone: 314-654-3939

Email: tammy.ginn@tycohealthcare.com

Correspondent Name: Christine R. Cooke
Address Line 1: 675 McDonnell Boulevard

Address Line 4: Hazelwood, MISSOURI 63042

ATTORNEY DOCKET NUMBER: 1665 WO US ASSGN

NAME OF SUBMITTER: Christine R. Cooke

Total Attachments: 12

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PATENT REEL: 019268 FRAME: 0712

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WHEREAS, we, Peter Xianqi WANG, 1708 Eldon Ridge Court, Chesterfield, in the state of Missouri, 63017, USA, and Frank W. MOSER, 3896 Petrified Forest Drive, Arnold, in the state of Missouri, 63010, USA, and Gary L. CANTRELL, 509 Lakewood Drive, Troy, in the state of Illinois, 62294 USA, and Daniel P. MAGPARANGALAN, 12135 DePaul Hills Drive, Bridgeton, in the state of Missouri, 63044, USA, have invented a new and improved OPIATE INTERMEDIATES AND METHODS OF SYNTHESIS identified as Case No. 1665.P US, and described in US provisional patent application no. 60/625,397 as filed in the United States Patent and Trademark Office on November 4, 2004.

WHEREAS, Mallinckrodt Inc. of St. Louis, Missouri, a corporation of the State of Delaware, is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, we do hereby sell, assign and transfer unto said Mallinckrodt Inc., its successors and assigns, the entire right, title and interest in and to said invention or inventions, as described in the aforesaid application, in any form or embodiment thereof, and in and to the aforesaid application; and in and to any applications filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention; also any improvements on said invention or inventions now or hereafter made by me during the period of my employment; also the entire right, title and interest in and to any and all patents or reissues or extensions thereof to be obtained in this or any foreign country upon said invention, inventions, or improvements and any divisional, continuation, continuation-in-part or substitute applications which may be filed upon said invention, inventions, or improvements in this or any foreign country; and I hereby authorize and request the issuing authority to issue any and all patents on said application or applications to said Mallinckrodt Inc., as assignee of the entire interest.

We further agree, without any payment by Mallinckrodt Inc. other than expenses incurred by the undersigned, to communicate to said Mallinckrodt Inc., its representatives or agents, any fact relating to said inventions, inventions or improvements, including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings, whenever requested; and execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective.

IN TESTIMONY WHEREOF, I have her	eunto set my hand and seal on the date set after my
signature.	
(L.S.) Seter Xianqi WANG	, Dated this 10 day of Delember 2004.
ACKNOW	LEDGEMENT
Kianqi WANG to me known to be the person des and acknowledge that he executed the foregoing in	, 2004, before me personally appeared Peter cribed in and who executed the foregoing instrument, astrument, and acknowledge that he executed the same ave hereunto set my hand and official seal the day and GEORGANN M. GREEN Notary Fubite-Notary Seal
	State of Missouri St Louis County My Colienthuloil Eliphies May 22, 2008
DITECTO (ONLY WHEDEOE 111	
signature.	reunto set my hand and seal on the date set after my
signature.	
(L.S.) Frank W. MOSER	, Dated this day of, 2004.
A CVO VOVI	
ACKNOW	<u>LEDGEMENT</u>
acknowledge that he executed the foregoing instru	, 2004, before me personally appeared Frank bed in and who executed the foregoing instrument, and ament, and acknowledge that he executed the same as we hereunto set my hand and official seal the day and
	Notary Public

IN TESTIMONY WHEREOF, I	have hereunto set my hand a	nd seal on the dat	e set after my
signature.			
(L.S.)Gary L. CANTRELL	, Dated this	day of	, 2004.
<u>A</u> (CKNOWLEDGEMENT		
On this day of	on described in and who execting instrument, and acknowle	uted the foregoingedge that he executed the second control of the	g instrument, and outed the same as
(Seal)			
		y a sa a A	
	Notary Public		*******
IN TESTIMONY WHEREOF, I signature.	nave nereunto set my nand a	nd seal on the dat	e set after my
(L.S.)	GALAN , Dated this	day of	, 2004.
<u>A</u> (CKNOWLEDGEMENT		
On this day of P. MAGPARANGALAN to me known to instrument, and acknowledge that he executed the same as his free act and dofficial seal the day and year last above we (Seal)	executed the foregoing instructional leed. In testimony whereof	n and who execu ument, and ackr	ted the foregoing nowledge that he
	Notary Public		

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IN TESTIMONY WHEREOF, I	nave nereunto set my nand a	nd seal on the date	e set after my
signature.			
(LS)	Dated this	day of	2004
(L.S.) Peter Xianqi WANG	, Dutou this	duy 01	, 2004.
*			
AC	KNOWLEDGEMENT		
On this day of Xianqi WANG to me known to be the pe	, 2004, bef	ore me personally	y appeared Peter
Xianqi WANG to me known to be the per and acknowledge that he executed the fore as his free act and deed. In testimony who year last above written. (Seal)	egoing instrument, and acknow	owledge that he ex	recuted the same
	Notary Public		
IN TESTIMONY WHEREOF, I signature. (L.S.) Lark W. MOSER			
<u>AC</u>	CKNOWLEDGEMENT		
On this Sth day of December W. MOSER to me known to be the person acknowledge that he executed the foregoinhis free act and deed. In testimony where year last above written. (Seal) PAULINE MARCINKIEWICZ Notary Public - Notary Seal STATE OF MISSOURI ST. CHARLES COUNTY MY COMMISSION EXP. MAR. 25, 2006	n described in and who executing instrument, and acknowle	edge that he exect hand and official	g instrument, and uted the same as

IN TESTIMONY WHEREOF, I have	hereunto set my hand a	nd seal on the date	set after my
signature.			
(L.S.)	. Dated this	day of	. 2004.
(L.S.) Gary L. CANTRELL			
ACKNO	DWLEDGEMENT		
On this day of	cribed in and who execustrument, and acknowle	uted the foregoing edge that he execu	instrument, and ited the same as
	Notary Public		
	1 total y 1 dollo		
IN TESTIMONY WHEREOF, I have	hereunto set my hand a	nd seal on the date	e set after my
signature.			
(L.S.)	, Dated this	day of	, 2004.
ACKNO	<u>OWLEDGEMENT</u>		
On this day of	ed the foregoing instr In testimony whereof	and who execute ument, and acknow	ed the foregoing owledge that he
· · · · · · · · · · · · · · · · · · ·	Notary Public		

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IN TESTIMONY WHEREOF, I have I	hereunto set my hand ar	nd seal on the date	set after my
signature.			
(L.S.)Peter Xianqi WANG	, Dated this	day of	, 2004.
ACKNO	WLEDGEMENT		
On this day of	g instrument, and ackno	wledge that he ex	ecuted the same
	Notary Public		
IN TESTIMONY WHEREOF, I have I signature.	hereunto set my hand a	nd seal on the date	set after my
(L.S.) Frank W. MOSER	, Dated this	day of	, 2004.
ACKNO	WLEDGEMENT		
On this day of	strument, and acknowle	ated the foregoing edge that he execu	instrument, and ated the same as
	Notary Public		

signature.				
(L.S.) Gary I.	L Cantell GANTRELL	,, Dated this	D day of Dec	, 2004.
	·	· · · · · · · · · · · · · · · · · · ·		
	<u>ACKNOWI</u>	LEDGEMENT		
CANTRELL to me know acknowledge that he executed the control of th	y of <u>Ukembul</u> n to be the person describ cuted the foregoing instru n testimony whereof I have	ed in and who exec ment, and acknowle	uted the foregoing insedge that he executed hand and official seal	strument, and the same as
		My Commission By Notary Pubne	ines May 22, 2006	
IN TESTIMON	Y WHEREOF, I have her	eunto set my hand a	nd seal on the date se	t after my
signature.		,		
(L.S.)	P. MAGPARANGALAN	, Dated this	day of	, 2004.
	ACKNOW	LEDGEMENT		
instrument, and acknow	I to me known to be the ledge that he executed s free act and deed. In	person described in the foregoing instr	ument, and acknowl	the foregoing edge that he
	<u> </u>			·
	. .	Notary Public		
£.				

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my

PATENT

REEL: 019268 FRAME: 0722

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signature.			
(L.S.) Peter Xianqi WANG	, Dated this	day of	, 2004.
AC	CKNOWLEDGEMENT		
On this day of	egoing instrument, and ackno	wledge that he ex	ecuted the same
	Notary Public		
IN TESTIMONY WHEREOF, I signature.	have hereunto set my hand ar	nd seal on the date	set after my
(L.S.) Frank W. MOSER	, Dated this	day of	, 2004.
AC	CKNOWLEDGEMENT		
On this day of W. MOSER to me known to be the person acknowledge that he executed the foregoinhis free act and deed. In testimony when year last above written. (Seal)	ing instrument, and acknowle	ated the foregoing edge that he execu	instrument, and ited the same as
. *	Notary Public		<u> </u>

IN TESTIMONY WHEREOF, I	have hereunto set my hand ar	nd seal on the date se	et after my
signature.			
(L.S.)Gary L. CANTRELL	, Dated this	day of	, 2004.
<u>AC</u>	KNOWLEDGEMENT		
On this day ofCANTRELL to me known to be the person acknowledge that he executed the foregoin his free act and deed. In testimony where year last above written. (Seal)	ng instrument, and acknowle	edge that he execute	d the same as
	Notary Public		_
IN TESTIMONY WHEREOF, I signature.	have hereunto set my hand a	nd seal on the date so	et after my
(L.S.) Daniel P. MAGPARANO	, Dated this <u>\$</u>	2 day of <u>Sectember</u>	, 2004.
AC	KNOWLEDGEMENT		
On this 8th day of Decem P. MAGPARANGALAN to me known to instrument, and acknowledge that he ex executed the same as his free act and de official seal the day and year last above wr (Seal)	be the person described in decuted the foregoing instructed. In testimony whereof	and who executed ument, and acknow	the foregoing ledge that he
PAULINE MARCINKIEWICZ Notary Public – Notary Seal STATE OF MISSOURI ST. CHARLES COUNTY MY COMMISSION EXP. MAR 25, 2006	Tauline) Mare Notary Public	inkuuricz)	_

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RECORDED: 05/09/2007