

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT										
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Peter Xianqi Wang</td> <td>12/10/2004</td> </tr> <tr> <td>Frank W. Moser</td> <td>12/08/2004</td> </tr> <tr> <td>Gary L. Cantrell</td> <td>12/10/2004</td> </tr> <tr> <td>Daniel P. Magparangalan</td> <td>12/08/2004</td> </tr> </tbody> </table>		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
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<b>RECEIVING PARTY DATA</b>											
<b>Name:</b>	Mallinckrodt Inc.										
<b>Street Address:</b>	675 McDonnell Boulevard										
<b>City:</b>	Hazelwood										
<b>State/Country:</b>	MISSOURI										
<b>Postal Code:</b>	63042										
<b>PROPERTY NUMBERS Total: 1</b>											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11718263</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11718263						
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Application Number:	11718263										
<b>CORRESPONDENCE DATA</b>											
<b>Fax Number:</b>	(314)654-3156										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
<b>Phone:</b>	314-654-3939										
<b>Email:</b>	tammy.ginn@tycohealthcare.com										
<b>Correspondent Name:</b>	Christine R. Cooke										
<b>Address Line 1:</b>	675 McDonnell Boulevard										
<b>Address Line 4:</b>	Hazelwood, MISSOURI 63042										
<b>ATTORNEY DOCKET NUMBER:</b>	1665 WO US ASSGN										
<b>NAME OF SUBMITTER:</b>	Christine R. Cooke										
<b>Total Attachments: 12</b> source=1665 WO US ASSN#page1.tif											

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## ASSIGNMENT

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.

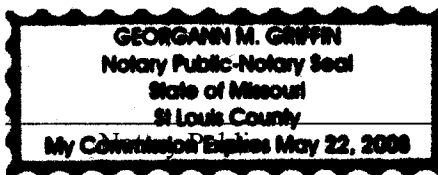
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

(L.S.) *Peter Xianqi Wang*, Dated this 10 day of December, 2004.  
Peter Xianqi WANG

ACKNOWLEDGEMENT

On this 10<sup>th</sup> day of December, 2004, before me personally appeared Peter Xianqi WANG to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)



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

(L.S.) \_\_\_\_\_, Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2004.  
Frank W. MOSER

ACKNOWLEDGEMENT

On this \_\_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared Frank W. MOSER to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)

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

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

(L.S.) \_\_\_\_\_, Dated this \_\_\_\_ day of \_\_\_\_\_, 2004.  
Gary L. CANTRELL

ACKNOWLEDGEMENT

On this \_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared Gary L. CANTRELL to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)

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

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

(L.S.) \_\_\_\_\_, Dated this \_\_\_\_ day of \_\_\_\_\_, 2004.  
Daniel P. MAGPARANGALAN

ACKNOWLEDGEMENT

On this \_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared Daniel P. MAGPARANGALAN to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)

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

## ASSIGNMENT

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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.

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(L.S.) \_\_\_\_\_, Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2004.  
Peter Xianqi WANG

ACKNOWLEDGEMENT

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(Seal)

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

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

(L.S.) Frank W. Moser, Dated this 8<sup>th</sup> day of December, 2004.  
Frank W. MOSER

ACKNOWLEDGEMENT

On this 8<sup>th</sup> day of December, 2004, before me personally appeared Frank W. MOSER to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)

PAULINE MARCINKIEWICZ  
Notary Public - Notary Seal  
STATE OF MISSOURI  
ST. CHARLES COUNTY  
MY COMMISSION EXP. MAR. 25, 2006

Pauline Marcinkiewicz  
Notary Public

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

(L.S.) \_\_\_\_\_, Dated this \_\_\_\_ day of \_\_\_\_\_, 2004.  
Gary L. CANTRELL

ACKNOWLEDGEMENT

On this \_\_\_\_ day of \_\_\_\_\_, 2004, before me personally appeared Gary L. CANTRELL to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

(Seal)

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Daniel P. MAGPARANGALAN

ACKNOWLEDGEMENT

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Peter Xianqi WANG

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Frank W. MOSER

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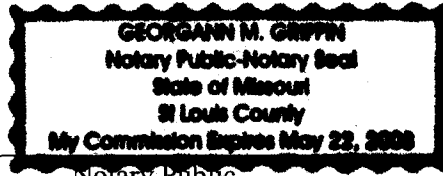
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal on the date set after my signature.

(L.S.) Gary L. Cantrell, Dated this 10 day of Dec, 2004.  
Gary L. CANTRELL

ACKNOWLEDGEMENT

On this 10<sup>th</sup> day of December, 2004, before me personally appeared Gary L. CANTRELL to me known to be the person described in and who executed the foregoing instrument, and acknowledge that he executed the foregoing instrument, and acknowledge that he executed the same as his free act and deed. In testimony whereof I have hereunto set my hand and official seal the day and year last above written.

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Daniel P. MAGPARANGALAN

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Peter Xianqi WANG

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Frank W. MOSER

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Gary L. CANTRELL

ACKNOWLEDGEMENT

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(Seal)

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

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(L.S.) Daniel Magp \_\_\_\_\_, Dated this 8 day of December, 2004.  
Daniel P. MAGPARANGALAN

ACKNOWLEDGEMENT

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(Seal)

PAULINE MARCINKIEWICZ  
Notary Public - Notary Seal  
STATE OF MISSOURI  
ST. CHARLES COUNTY  
MY COMMISSION EXP. MAR. 25, 2006

Pauline Marcinkiewicz  
Notary Public