

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Garry Thomas Gwozdz	04/21/2008
Andrew Loxley	04/21/2008
Mark Mitchnick	04/21/2008
RECEIVING PARTY DATA	
Name:	Particle Sciences, Inc.
Street Address:	3894 Courtney St
Internal Address:	Suite 180
City:	Bethlehem
State/Country:	PENNSYLVANIA
Postal Code:	18017
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12933701
CORRESPONDENCE DATA	
Fax Number:	(856)810-1454
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	8568101515
Email:	katyrrrell@licataandtyrrell.com
Correspondent Name:	Kathleen A. Tyrrell
Address Line 1:	Licata & Tyrrell P.C.
Address Line 2:	66 East Main St
Address Line 4:	Marlton, NEW JERSEY 08053
ATTORNEY DOCKET NUMBER:	PS0008US.NP
NAME OF SUBMITTER:	Kathleen A. Tyrrell

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AQUESTIVE EXHIBIT 1047 page 0001

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A S S I G N M E N T

WHEREAS, we, Garry Thomas Gwozdz of 329 South Main Street, Nazareth, Pennsylvania 18064, Andrew Loxley of 126 Market Street, #5, Philadelphia, Pennsylvania 19105 and Mark Mitchnick of 80 Three Mile Harbor Drive, East Hampton, New York 11937, hereinafter referred to as the assignors are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Serial No. 61/040,281, filed March 28, 2008, entitled **Pharmaceutical Solutions and Method for Solubilizing Therapeutic Agents**; and

WHEREAS, Particle Sciences, Inc., hereinafter referred to as the assignee, of 3894 Courtney Street, Suite 180, Bethlehem, Pennsylvania 18017, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

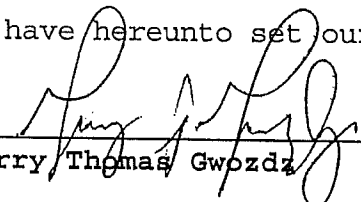
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application or any other application based in whole or in part thereon and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

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 further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or

improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks 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 to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.



Garry Thomas Gwozdz (L.S.)

PENNSYLVANIA :
SS
COUNTY OF NORTHAMPTON :

On this 21 day of APRIL, 2008, before me personally came the above named Garry Thomas Gwozdz to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of those persons' own free will for the use and purposes therein set forth.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Maureen A. Cochran, Notary Public
Lower Saucon Twp., Northampton County
My Commission Expires June 22, 2011
Member, Pennsylvania Association of Notaries



Notary Public



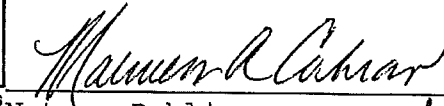
_____. (L.S.)
Andrew Loxley

Pennsylvania :
COUNTY OF NORTHAMPTON ^{SS} :

On this 21 day of APRIL, 20008, before me personally came the above named Andrew Loxley to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of those persons' own free will for the use and purposes therein set forth.

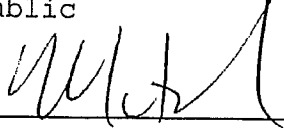
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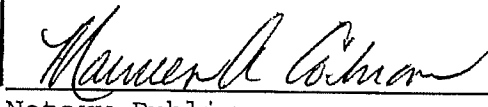
_____. (L.S.)
Mark Mitchnick

Pennsylvania :
COUNTY OF NORTHAMPTON ^{SS} :

On this 21 day of APRIL, 20008, before me personally came the above named Mark Mitchnick to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that execution of the same was of those persons' own free will for the use and purposes therein set forth.

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