

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Michael J. Welsh</td><td>08/17/2000</td></tr><tr><td>Paola T. Drapkin</td><td>08/17/2000</td></tr></tbody></table>		Name	Execution Date	Michael J. Welsh	08/17/2000	Paola T. Drapkin	08/17/2000				
Name	Execution Date										
Michael J. Welsh	08/17/2000										
Paola T. Drapkin	08/17/2000										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>The University of Iowa Research Foundation</td></tr><tr><td>Street Address:</td><td>214 Technology Innovation Center</td></tr><tr><td>City:</td><td>Iowa City</td></tr><tr><td>State/Country:</td><td>IOWA</td></tr><tr><td>Postal Code:</td><td>52242</td></tr></table>		Name:	The University of Iowa Research Foundation	Street Address:	214 Technology Innovation Center	City:	Iowa City	State/Country:	IOWA	Postal Code:	52242
Name:	The University of Iowa Research Foundation										
Street Address:	214 Technology Innovation Center										
City:	Iowa City										
State/Country:	IOWA										
Postal Code:	52242										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11468348</td></tr></tbody></table>		Property Type	Number	Application Number:	11468348						
Property Type	Number										
Application Number:	11468348										
CORRESPONDENCE DATA											
Fax Number: (212)484-3990 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 212 484-3945											
Email: Seide.Rochelle@Arentfox.com											
Correspondent Name: Rochelle K. Seide											
Address Line 1: Arent Fox											
Address Line 2: 1675 Broadway											
Address Line 4: New York, NEW YORK 10019											
ATTORNEY DOCKET NUMBER:	027923.00008										
NAME OF SUBMITTER:	Rochelle K. Seide										
Total Attachments: 3 source=Assignment#page1.tif source=Assignment#page2.tif											

OP \$40.00 11468348

500145314

PATENT  
REEL: 018191 FRAME: 0033

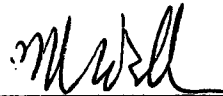




Letters Patent of the United States to said The University of Iowa Research Foundation, as the assignee of the entire right, title and interest in and to the same, for the sole use and behoof of said The University of Iowa Research Foundation, its successors and assigns;

AND WE, the said MICHAEL J. WELSH and PAOLA T. DRAPKIN, for the considerations aforesaid, do hereby covenant and agree to and with said The University of Iowa Research Foundation, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that I, my executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said The University of Iowa Research Foundation, its successors and assigns, may be required or necessary to more effectively secure to and vest in said The University of Iowa Research Foundation, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, benefits, privileges and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

IN WITNESS WHEREOF, I, the said MICHAEL J. WELSH, have hereunto set my hand and seal on the date below written.



Michael J. Welsh

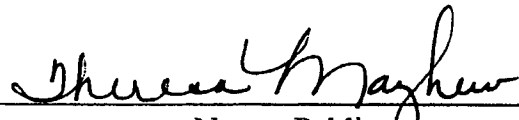
by himself and on behalf  
of the Howard Hughes  
Medical Institute

STATE OF Iowa )

: ss.:


COUNTY OF Johnson )

BE IT KNOWN, that on this 17<sup>th</sup> day of August, 2000, before me personally came Michael J. Welsh, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.



Notary Public

IN WITNESS WHEREOF, I, the said PAOLA T. DRAPKIN, have hereunto set my hand and seal on the date below written.

  
Paola T. Drapkin

STATE OF Iowa )  
COUNTY OF Johnson ) : ss.:

BE IT KNOWN, that on this 17<sup>th</sup> day of August, 2000, before me personally came Paola T. Drapkin, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

Theresa Mayhew  
Notary Public