Form PTO-1595 RECORD		• ODEPARTMENT OF COMMERCE
(Rev. 10/02) 2 - 20 - 03	02-25-2003	J.S. Patent and Trademark Office
OMB No. 0651-0027 (exp. 6/30/2005) Tab Settings ⇔⇔⇔ ▼		▼ •
To the Honorable Commissioner of Patents and $\hat{\ }_{i}$	102372409	inal documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of re	ceiving party(ies)
Lex M. Cowsert, Jacqueline Wyatt, Susan Freier,	Name: <u>ISIS Pharmaceutica</u>	als, Inc.
Brett P. Monia, Madeline M. Butler, and Robert McKay	Internal Address:	
Additional name(s) of conveying party(ies) attached?	Interval radicess.	
3. Nature of Conveyance:	Street Address: 2292 Faraday Avenue	
·	Street Address. 2292 Fai	aday Averlue
 ✓ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other 	City: <u>Carlsbad</u> State:	CA Zin:
Execution Date: October 30, 2000; November 1, 2000;		•
October 30, 2000; November 15, 2000; October 30, 2000; and October 27, 2000	Additional name(s) & addre	ess(es) attached? □ yes 🗵 no
4. Application number(s) or patent number(s):		
If this document is being filed together with a new appl	ication, the execution date of the	e application is
A. Patent Application No.(s)	B. Patent No.(s)	
09/629,644		70 (A)
Additional r	numbers attached? 🗖 yes	⊠ no 01 9 6
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applicat Patents involved:	tions and 🙎 🚊 🚆
Name: Mary E. Bak, Esquire		
Howson and Howson	7. Total fee (37 CFR 3.41).	\$ <u>40.00</u>
Internal Address:		
Street Address: <u>Spring House Corporate Center</u> ,	Authorized to be charged to deposit account	
Box 457	8. Deposit account number	r:
City: Spring House State: PA Zip: 19477	08-3040	
	(Attach duplicate copy of th	nis page if paying by deposit account
DO NO	T USE THIS SPACE	
9. Statement and signature		
To the best of my knowledge and belief, the forego true copy of the original document.	ing information is true and c	correct and any attached copy is
	18. Bd	Feb 13, 2003
Name of Person Signing	18 Bok ignature	Date
Total number of pages, including of	over sheet, attachments, and ded with required coversheet information to	
dommissioner of Pater	nts and Trademarks, Box Assignments shington, DC 20231	
FC 8021 40.00 DP /		
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DOCKET NO.: ISPH-0478

PATENT

ASSIGNMENT

WHEREAS, We, Lex M. Cowsert, of Carlsbad, State of California; Jacqueline Wyatt, of Encinitas, State of California; Susan M. Freier, of San Diego, State of California; Brett P. Monia, of La Costa, State of California; Madeline M. Butler, of Rancho Santa Fe, State of California and Robert McKay, of San Diego, State of California, have invented a certain invention entitled Antisense Modulation of PTP1B Expression, for which we have made application for Letters Patent of the United States, said application having been filed July 31, 2000 and assigned Application No. 09/629,644; and

WHEREAS, ISIS Pharmaceuticals, Inc. hereinafter referred to as the assignee, of 2292 Faraday Avenue, Carlsbad CA, 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 and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other 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, and in, to and under any and all Letters Patent which may be granted on or as a

ASSIGNMENT - PAGE 1 OF 4

DOCKET NO.: ISPH-0478 PATENT

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 its successors, assigns, nominees, or assignee, 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.

ASSIGNMENT - PAGE 2 OF 4

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.

DATED: **/6/30** , 20

)) ss.

County of San Diego

State of California

On this 20th day of Ochober, 2000, before me, the undersigned, a Notary Public for the state, personally appeared Lex M. Cowsert, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

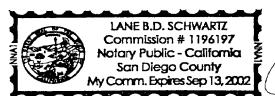
ignatufe of Notary

ASSIGNMENT - PAGE 3 OF 4

DATED: 11/1 , 2000

| County of San Diego |

On this 1st day of November, 2000, before me, the undersigned, a Notary Public for the state, personally appeared Jacqueline Wyatt, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

Signature of Notary

DATED: 30-0 ct , 2000

SUSAN M. FREIER

State of California)) ss.
County of San Diego)

On this 30th day of Octube , 2000, before me, the undersigned, a Notary Public for the state, personally appeared Susan M. Freier, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

CAROL A. COLLINS
Comm. # 1189498
NOTARY PUBLIC - CALIFORNIA
San Diego County
My Comm. Expires July 8, 2002

Cave a. Crelin Signature of Notary

ASSIGNMENT - PAGE 4 OF 4

On this 16th day of November, 2000, before me, the undersigned, a Notary Public for the state, personally appeared Brett P. Monia, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

DOCKET NO.: ISPH-0478

County of San Diego

LANE B.D. SCHWARTZ WITNESS my hand and official seal.

Signature of Notary

DATED: 10/30, 2000

MADELINE M. BUTLER

PATENT

On this 30th day of Action, 2000, before me, the undersigned, a Notary Public for the state, personally appeared Madeline M. Butler, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

ignature of Notary

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

WITNESS my hand and official seal.

ASSIGNMENT - PAGE 5 OF 4

DOCKET	NO.:	ISPH-0478

DATED: 10/27

ROBERT MCKAY

PATENT

State of California)
) ss.
County of San Diego)

On this Aday of Africa , 2000, before me, the undersigned, a Notary Public for the state, personally appeared Robert McKay, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

LANE B.D. SCHWARTZ
Commission # 1196197
Notary Public - California
San Diego County
My Comm. Expires Sep 13, 2002

RECORDED: 02/20/2003

June Reality

ASSIGNMENT - PAGE 6 OF 4