

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
C. FRANK BENNETT	04/17/2008
CHRISTINE ESAU	04/17/2008
ERIC G. MARCUSSON	04/17/2008

RECEIVING PARTY DATA

Name:	ISIS PHARMACEUTICALS, INC.
Street Address:	1896 RUTHERFORD ROAD
City:	CALRSBAD
State/Country:	CALIFORNIA
Postal Code:	92008

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14168812

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	REGUL-32416/US-4/DIV
NAME OF SUBMITTER:	REBECCA B. SCARR
SIGNATURE:	/Rebecca B. Scarr/
DATE SIGNED:	04/14/2014

Total Attachments: 5

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PATENT

A S S I G N M E N T

WHEREAS, I/we, **C. Frank Bennett, of Carlsbad, CA, Christine Esau, of La Jolla, CA, Eric G. Marcusson, of San Francisco, CA,** has/have invented a certain invention entitled **TARGETING MICRORNAS FOR THE TREATMENT OF LIVER CANCER**, for which I/we have made an application for letters patent of the United States, said application having been filed **10/29/2007** and assigned application no. **60/983,231**; and

WHEREAS, **ISIS Pharmaceuticals, Inc.** hereinafter referred to as the assignee, of 1896 Rutherford Road, 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 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.

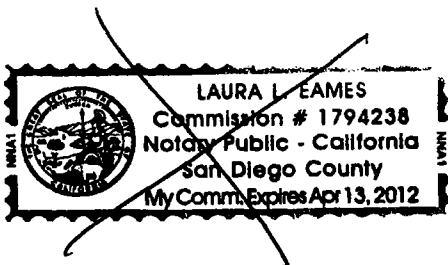
Dated: April 17 2008

C. Frank Bennett
C. Frank Bennett

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

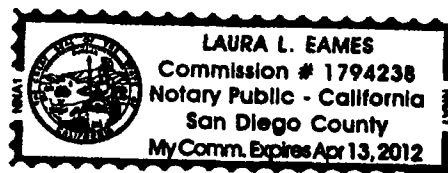
On April 17, 2008 before me, Laura L. Eames, Notary Public, personally appeared **C. Frank Bennett**, who is proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacities(~~ies~~), and that by his/~~her/their~~ signatures(~~s~~) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.

Laura L. Eames
Signature of Notary

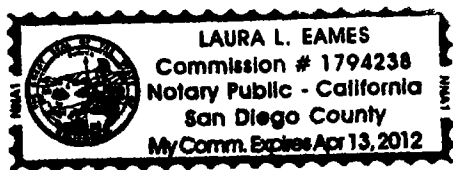


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Dated: April 17 2008Christine Esau
Christine EsauState of California)
County of San Diego) ss.

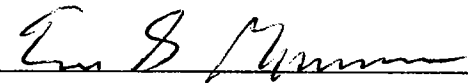
On April 17, 2008 before me, Laura L. Eames, Notary Public, personally appeared **Christine Esau**, who is proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacities(ies), and that by his/her/their signatures(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



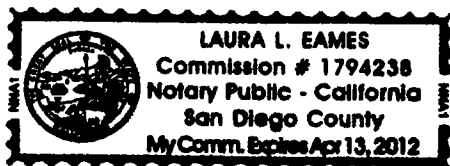
WITNESS my hand and official seal.

Laura L. Eames
Signature of Notary

Dated: 4/17 2008
Eric G. MarcussonState of California)
County of San Diego) ss.

On April 17, 2008 before me, Laura L. Eames, Notary Public, personally appeared **Eric G. Marcusson**, who is proved to me on the basis of satisfactory evidence to be the person(~~s~~) whose name(~~s~~) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/~~they~~ executed the same in his/~~her~~/~~their~~ authorized capacities(~~ies~~), and that by his/~~her~~/~~their~~ signatures(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.



WITNESS my hand and official seal.


Signature of Notary

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