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FORM PTO-1595
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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To The Honorable Commissioner of Patents
thereof.

attached original documents or copy

1. Name of conveying party(ies):

George Just and Jianchao Wang

Additional name(s) of conveying party(ies)
attached? () YES (X) NO

3. Nature of Conveyance:

(X) Assignment () Merger
() Security Agreement
() Change of Name
() Other:

Execution Date(s): October 27, 1998 and October 28, 1998

2. Name and address of receiving party(ies):

Name: McGill University

Street Address: 3550 University Avenue

City: Montreal, Quebec H3A 2A7

Country: Canada

Additional name(s) & address attached? () YES (X) NO

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)
09/051,610 filed 12/3/98

B. Patent No.(s)

Additional numbers attached? () YES (X) NO

5. Name and address of party to whom correspondence
concerning documents should be mailed:

Name: Michael P. Straher
Internal Address: WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
Philadelphia, Pennsylvania 19103-7301

Street Address: WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS LLP
One Liberty Place - 46th Floor
1650 Market Street
Philadelphia, Pennsylvania 19103-7301

6. Total number of applications and patents involved:
One (1)

7. Total fee (37 CFR 3.41):.....\$40.00
(X) Enclosed

() Authorized to be charged to Deposit Account
Number 23-3050

8. Please charge any deficiency or credit any
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael P. Straher/38,325

Name of Person Signing/Reg. No.

Signature

January 26, 2000

Date

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to:

03/06/2000 JSHABAZZ 00000118 09051610

FC:581

40.00 OP

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

PATENT
REEL: 010584 FRAME: 0779

DOCKET NO.: ISIS-2378

A S S I G N M E N T

WHEREAS, we, **George JUST, Zhili XIN, Eric MARSULT, Yi JIN and Jianchao WANG**, hereinafter referred to as the assignors, residing respectively at **134 Chemin de l'Île, Ile Cadieux, Quebec J7V 8P3, Canada; 5209 Fredric Court, Gurnee, Illinois 60011; 1345 rue Prospect, Apt. #1, Sherbrooke, Quebec J1J 1J4, Canada; 88 Killarney Avenue, Apt. 17, Winnipeg, Manitoba R3T 2B2, Canada, and 3512 Durocher Street - Apt. 304, Montreal, Quebec H2X 2E6, Canada** are the joint inventors of certain inventions or improvements for which an international patent application was made through the Patent Cooperation Treaty, identified as Serial No. **PCT/IB96/01185**, filed **October 18, 1996**, entitled **Preparation of Phosphorothioate Oligomers**; and

WHEREAS, **McGill University**, hereinafter referred to as the assignee, of **3550 University Avenue, Montreal, Quebec H3A 2A7, Canada**, a corporation of **Canada**, 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

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Joint Inventors

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.

SIGNED at Montreal, Canada
(City) (Country)

this 27 day of October, 1998.

George JUST
George JUST

STATEMENT BY WITNESS

I, Yixin Lu, whose full residence address is
(name of witness)

625 Milton #205 Montreal, PQ H2X 1W7

was personally present and did see George JUST execute the above assignment on the 27 day of October, 1998, and such assignor is personally known to me to be the person described in such document.

Yixin Lu
Signature of Witness

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Joint Inventors

SIGNED at _____
(City) (Country)

this _____ day of _____, 1998.

Zhili XIN

STATEMENT BY WITNESS

I, _____, whose full residence address is
(name of witness)

was personally present and did see **Zhili XIN** execute the above assignment on
the _____ day of _____, 1998, and such assignor is personally known
to me to be the person described in such document.

Signature of Witness

SIGNED at _____
(City) (Country)

this _____ day of _____, 1998.

Eric MARSAULT

STATEMENT BY WITNESS

I, _____, whose full residence address is
(name of witness)

was personally present and did see **Eric MARSAULT** execute the above assignment
on the _____ day of _____, 1998, and such assignor is personally
known to me to be the person described in such document.

Signature of Witness

**PATENT
Joint Inventors**SIGNED at _____
(City) (Country)

this _____ day of _____, 1998.

Yi JINSTATEMENT BY WITNESSI, _____, whose full residence address is
(name of witness)_____
was personally present and did see Yi JIN execute the above assignment on the
_____ day of _____, 1998, and such assignor is personally known to
me to be the person described in such document._____
Signature of WitnessSIGNED at Montreal Canada
(City) (Country)this 28 day of October, 1998._____
Jianchao WANGSTATEMENT BY WITNESSI, Arline ROLAND, whose full residence address is
(name of witness)390, RUE RIELLE, APT 307, VERDON, QC, H4G 2S8
was personally present and did see Jianchao WANG execute the above assignment
on the 28 day of October, 1998, and such assignor is personally
known to me to be the person described in such document._____
Signature of Witness