



2/23/00

1. Name of party or parties conveying an interest: Timothy J. Martins, Kerry W. Fowler, Joshua Odingo, Edward A. Kesicki, Amy Oliver, Laurence E. Burgess, John J. Gaudino, Zachary S. Jones, Bradley J. Newhouse, Stephen T. Schlachter.
2. Name and address of party or parties receiving an interest: Name: ICOS Corporation, a Delaware corporation, Address: 22021 20th Avenue, S.E., City: Bothell, State: Washington, Zip: 98021.
3. Description of the interest conveyed: [X] Assignment, [] Merger, [] Change of Name, [] Security Agreement. Other:
Execution Date: January 19, 2000 and January 12, 2000
4. Application number(s) or patent number(s). Additional sheet attached? YES [] NO [X]
A. Patent application no.(s): 09/471,846 filed December 23, 1999
B. Patent no.(s):
5. Name and address of party to whom correspondence concerning this cover sheet should be mailed: Name: James J. Napoli, Reg. No. 32,361, MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, Address: 6300 Sears Tower, 233 South Wacker Drive, City: Chicago, State: Illinois, Zip: 60606-6402.
6. Number of applications and/or patents identified on this cover sheet: 1
7. Amount of fee enclosed or authorized to be charged: \$ 40.00
8. Any additional required fee may be charged, or any overpayment credited to our deposit account: 13-2855

OPR/FINANCE
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9. To the best of my knowledge and belief, the information contained on this cover sheet is true and correct and any copy submitted is a true copy of the original document.

Date: Feb. 23, 2000

James J. Napoli

James J. Napoli
Reg. No. 32,361

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

ASSIGNMENT

Serial No: 09/471,846
 Filed: December 23, 1999
 Title: CYCLIC AMP-SPECIFIC PHOSPHODIESTERASE INHIBITORS

For ten dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to ICOS Corporation, a Delaware corporation, 22021 20th Avenue SE. Bothell, Washington 98021, (hereinafter "assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, executed by the undersigned on January 19, 2000, and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

MARSHALL, O'TOOLE, GERSTEIN, MURRAY & BORUN, 6300 Sears Tower, 233 South Wacker Drive, Chicago, Illinois 60606-6402

WITNESS our hands this 19th day of January, 2000

State of Washington
County of Inghamish } ss.

Timothy J. Martins
Timothy J. Martins

Kerry W. Fowler
Kerry W. Fowler

Joshua Odingo
Joshua Odingo

Edward Kesicki
Edward Kesicki
A. ENK

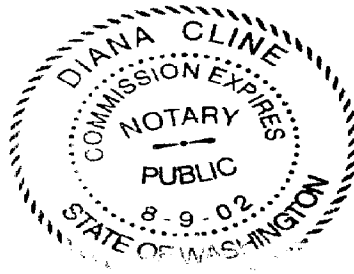
Amy Oliver
Amy Oliver

On this 19 day of January, 2000, before me, a Notary Public in and for the County and State aforesaid, appeared Timothy J. Martins, Kerry W. Fowler, Joshua Odingo, Edward Kesicki, and Amy Oliver, to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires: 8/9/02

Diana Cline
Notary Public



A S S I G N M E N T

Serial No: 09/471,846
 Filed: December 23, 1999
 Title: CYCLIC AMP-SPECIFIC PHOSPHODIESTERASE INHIBITORS

For ten dollars (\$10.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assign to ICOS Corporation, a Delaware corporation, 22021 20th Avenue SE, Bothell, Washington 98021, (hereinafter "assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, executed by the undersigned on January 12, 2000, and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the execution date and/or filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the interest herein assigned and to have the right to make this assignment and further warrant that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned.

For said consideration the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation, continuation-in-part and substitute applications for said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agree upon the request of said assignee, its successors or assigns, in the event of any application or Letters Patent assigned herein becoming involved in Interference, to cooperate to the best of the ability of the undersigned with said assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in said assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by said assignee, its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS our hands this 12th day of January, 2000

State of Colorado
County of Boulder

} ss.

Laurence E. Burgess
Laurence E. Burgess

John J. Gaudino
John J. Gaudino

Zachary S. Jones
Zachary S. Jones

Bradley J. Newhouse
Bradley J. Newhouse

Stephen T. Schlachter
Stephen T. Schlachter

On this 12th day of January, 2000, before me, a Notary Public in and for the County and State aforesaid, appeared Laurence E. Burgess, John J. Gaudino, Zachary S. Jones, Bradley J. Newhouse, and Stephen T. Schlachter, to me personally known to be the same persons whose names are subscribed to the foregoing instrument, and acknowledged that they executed said instrument as their free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the same day and year last above given.

My Commission Expires November 25, 2001
My Commission Expires: 7173 Burgundy Drive • Longmont, CO 80503

Eileen P. Josey
Notary Public

