



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

08-12-1998



100791947

TO THE HONORABLE COMMISSIONER OF
PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

OFFICE OF
GENERAL COUNSEL



REQUEST FOR RECORDING AND COVER SHEET UNDER 37 C.F.R. §§ 3.28 AND 3.31

Please record the attached original documents.

1. Names of parties conveying the interest:

C. Andrew Miller, P. Jeffrey Chappell and Keith J. Fritsky.

2. Name and address of party receiving the interest:

The United States of America as represented by the Administrator of the United States Environmental Protection Agency, Washington, DC 20460

3. Description of the interest conveyed or transaction to be recorded:

☒ Assignment ☐ Other:

4. Application Number: 08/535,405, filed September 28, 1995

5. Address correspondence concerning this request to: Alan M. Ehrlich, Acting Patent Counsel, Finance and Operations Law Office (2377), Office of General Counsel, U.S. Environmental Protection Agency, Washington, D.C. 20460.

6. Number of Applications, Patents or Registrations and total fee:

Patents: 1 patent rights @ \$40 Total: \$40 *E*

If no fee is attached, or if a greater or lesser fee is required, please charge or credit our Account No. 05-1128.

7. Date of execution of document: Co-inventor Miller: July 30, 1998

Co-inventor Chappell: July 29, 1998

Co-inventor Fritsky: August 3, 1998

8. To the best of knowledge and belief of the undersigned, the foregoing information is true and correct and the attached are the original documents.

9. Date: *Aug 5, 1998*

Alan M. Ehrlich
Name: Alan M. Ehrlich

Registration Number: 37,999

Telephone: (202) 260-7510

08/07/1998 JSABABAZZ 00000108 051128 08535405

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40.00 CH

PATENT
REEL: 9372 FRAME: 0032
Printed on Recycled Paper

ASSIGNMENT

WHEREAS, WE, C. Andrew Miller, residing at Apex, North Carolina, United States, Paul M. Lemieux, residing at Cary, North Carolina, United States, P. Jeffrey Chappell, residing at Ann Arbor, Michigan, United States, and Keith J. Fritsky, residing at Elkton, Maryland, United States, being at the time of invention employees of the the United States of America (hereinafter referred to as the Government), U.S. Environmental Protection Agency, have invented (along with Ronald L. Capone residing at Staunton, Virginia, United States) a new and useful improvement in a METHOD FOR IMPROVING PROCESS CONTROL BY REDUCING LAG TIME OF SENSORS USING ARTIFICIAL NEURAL NETWORKS (hereafter referred to as the Invention) for which we filed an application in the United States Patent and Trademark Office for Letters Patent of the United States of America on September 28, 1995, Serial No. 08/535,405;

WHEREAS, the conditions under which the Invention was made, namely (i) that the Invention is directly related to the duties of our Government employment which we had at the time we made the Invention, and (ii) Government funds and facilities were used to make the Invention, are such as to entitle the Government, pursuant to the provisions of Executive Order 10096, January 28, 1950, as amended by Executive Order 10930, March 24, 1961, and applicable regulations, including 37 CFR Part 501, to the entire right, title and interest in and to the Invention in the United States of America; and

WHEREAS, the Government, as represented by the Administrator of the U.S. Environmental Protection Agency, is desirous of acquiring the entire right, title and interest in said Invention in the United States of America in said Application Serial No. 08/535,405, and in any and all Letters Patent of the United States that may issue thereon.

NOW THEREFORE, in consideration of these premises, including our employment by the said Government, we, C. Andrew Miller, Paul M. Lemieux, P. Jeffrey Chappell and Keith J. Fritsky do hereby sell, assign, and transfer unto The United States of America, as represented by the Administrator of the U.S. Environmental Protection Agency, our entire right, title, and interest in the United States of America in and to said Application Serial No. 08/535,405 and in and to the Invention as described and/or claimed in said Application, and in and to any Letters Patent that may issue on said Applications or on any application that is a continuation, continuation-in-part, division, reissue, substitution, or extension thereof.

We, C. Andrew Miller, Paul M. Lemieux, P. Jeffrey Chappell and Keith J. Fritsky do hereby agree that the Government will, upon its request, be provided promptly with all pertinent facts and documents relating to said Application, said Invention and said Letters Patent as may be known and accessible to us, that we will testify as to the same in any interference or litigation related thereto, and that we will promptly execute and deliver to the Government or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said Application, said Invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof, provided, that all

proper expenses arising through extending such assistance will be paid by the Government if we are not employed by the Government at the time the assistance is extended.

We, Andrew Miller, Paul M. Lemieux, P. Jeffrey Chappell and Keith J. Fritsky hereby warrant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Executed this 30th day of July 1998.

Signature *C. Andrew Miller*
Inventor--C. Andrew Miller

County of Randolph

Before me personally appeared said C. Andrew Miller acknowledged the foregoing instrument to be his free act and deed this 30 day of July 1998.

*My Commission Expires
November 12, 2000*

Carol R. Puzos
(NOTARY PUBLIC)

Executed this _____ day of _____ 1998.

Signature: _____
Inventor--Paul M. Lemieux

County of _____

Before me personally appeared said Paul M. Lemieux and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____ 1998.

(NOTARY PUBLIC)

Executed this _____ day of _____ 1998.

Signature: _____
Inventor--P. Jeffrey Chappell

County of _____

Before me personally appeared said P. Jeffrey Chappell and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____ 1998.

(NOTARY PUBLIC)

Executed this _____ day of _____ 1998.

Signature: _____
Inventor--Keith J. Fritsky

County of _____

Before me personally appeared said Keith J. Fritsky and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____ 1998.

(NOTARY PUBLIC)

ASSIGNMENT

WHEREAS, WE, C. Andrew Miller, residing at Apex, North Carolina, United States, Paul M. Lemieux, residing at Cary, North Carolina, United States, P. Jeffrey Chappell, residing at Ann Arbor, Michigan, United States, and Keith J. Fritsky, residing at Elkton, Maryland, United States, being at the time of invention employees of the the United States of America (hereinafter referred to as the Government), U.S. Environmental Protection Agency, have invented (along with Ronald L. Capone residing at Staunton, Virginia, United States) a new and useful improvement in a METHOD FOR IMPROVING PROCESS CONTROL BY REDUCING LAG TIME OF SENSORS USING ARTIFICIAL NEURAL NETWORKS (hereafter referred to as the Invention) for which we filed an application in the United States Patent and Trademark Office for Letters Patent of the United States of America on September 28, 1995, Serial No. 08/535,405;

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WHEREAS, the Government, as represented by the Administrator of the U.S. Environmental Protection Agency, is desirous of acquiring the entire right, title and interest in said Invention in the United States of America in said Application Serial No. 08/535,405, and in any and all Letters Patent of the United States that may issue thereon.

NOW THEREFORE, in consideration of these premises, including our employment by the said Government, we, C. Andrew Miller, Paul M. Lemieux, P. Jeffrey Chappell and Keith J. Fritsky do hereby sell, assign, and transfer unto The United States of America, as represented by the Administrator of the U.S. Environmental Protection Agency, our entire right, title, and interest in the United States of America in and to said Application Serial No. 08/535,405 and in and to the Invention as described and/or claimed in said Application, and in and to any Letters Patent that may issue on said Applications or on any application that is a continuation, continuation-in-part, division, reissue, substitution, or extension thereof

We, C. Andrew Miller, Paul M. Lemieux, P. Jeffrey Chappell and Keith J. Fritsky do hereby agree that the Government will, upon its request, be provided promptly with all pertinent facts and documents relating to said Application, said Invention and said Letters Patent as may be known and accessible to us, that we will testify as to the same in any interference or litigation related thereto, and that we will promptly execute and deliver to the Government or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said Application, said Invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof, provided, that all

proper expenses arising through extending such assistance will be paid by the Government if we are not employed by the Government at the time the assistance is extended.

We, Andrew Miller, Paul M. Lemieux, P. Jeffrey Chappell and Keith J. Fritsky hereby warrant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Executed this _____ day of _____ 1998.

Signature _____
Inventor--C. Andrew Miller

County of _____

Before me personally appeared said C. Andrew Miller acknowledged the foregoing instrument to be his free act and deed th s _____ day of _____ 1998.

(NOTARY PUBLIC)

Executed this _____ day of _____ 1998.

Signature _____
Inventor--Paul M. Lemieux

County of _____

Before me personally appeared said Paul M. Lemieux and acknowledged the foregoing instrument to be his free act and deed th s _____ day of _____ 1998.

(NOTARY PUBLIC)

Executed this 24 day of July 1998.

Signature: P. Jeffrey Chappell

Inventor--P. Jeffrey Chappell

County of Washtenaw

Before me personally appeared said P. Jeffrey Chappell and acknowledged the foregoing instrument to be his free act and deed this 24 day of July 1998.

Gilda Elkins

(NOTARY PUBLIC)

GILDA ELKINS

Notary Public, Washtenaw County, Michigan

My Commission Expires June 18, 2002

Executed this _____ day of _____ 1998.

Signature: _____

Inventor--Keith J. Fritsky

County of _____

Before me personally appeared said Keith J. Fritsky and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____ 1998.

(NOTARY PUBLIC)

PATENT

REEL: 9372 FRAME: 0038

ASSIGNMENT

WHEREAS, WE, C. Andrew Miller, residing at Apex, North Carolina, United States, Paul M. Lemieux, residing at Cary, North Carolina, United States, P. Jeffrey Chappell, residing at Ann Arbor, Michigan, United States, and Keith J. Fritsky, residing at Elkton, Maryland, United States, being at the time of invention employees of the the United States of America (hereinafter referred to as the Government), U.S. Environmental Protection Agency, have invented (along with Ronald L. Capone residing at Staunton, Virginia, United States) a new and useful improvement in a METHOD FOR IMPROVING PROCESS CONTROL BY REDUCING LAG TIME OF SENSORS USING ARTIFICIAL NEURAL NETWORKS (hereafter referred to as the Invention) for which we filed an application in the United States Patent and Trademark Office for Letters Patent of the United States of America on September 28, 1995, Serial No. 08/535,405;

WHEREAS, the conditions under which the Invention was made, namely (i) that the Invention is directly related to the duties of our Government employment which we had at the time we made the Invention, and (ii) Government funds and facilities were used to make the Invention, are such as to entitle the Government, pursuant to the provisions of Executive Order 10096, January 28, 1950, as amended by Executive Order 10930, March 24, 1961, and applicable regulations, including 37 CFR Part 501, to the entire right, title and interest in and to the Invention in the United States of America; and

WHEREAS, the Government, as represented by the Administrator of the U.S. Environmental Protection Agency, is desirous of acquiring the entire right, title and interest in said Invention in the United States of America in said Application Serial No. 08/535,405, and in any and all Letters Patent of the United States that may issue thereon.

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proper expenses arising through extending such assistance will be paid by the Government if we are not employed by the Government at the time the assistance is extended.

We, Andrew Miller, Paul M. Lemieux, P. Jeffrey Chappell and Keith J. Fritsky hereby warrant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Executed this _____ day of _____ 1998.

Signature: _____
Inventor--C. Andrew Miller

County of _____

Before me personally appeared said C. Andrew Miller acknowledged the foregoing instrument to be his free act and deed this _____ day of _____ 1998.

(NOTARY PUBLIC)

Executed this _____ day of _____ 1998.

Signature: _____
Inventor--Paul M. Lemieux

County of _____

Before me personally appeared said Paul M. Lemieux and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____ 1998.

(NOTARY PUBLIC)

Executed this _____ day of _____ 1998.

Signature _____
Inventor--P. Jeffrey Chappell

County of _____

Before me personally appeared said P. Jeffrey Chappell and acknowledged the foregoing instrument to be his free act and deed this _____ day of _____ 1998.

(NOTARY PUBLIC)

Executed this 3rd day of August 1998.

Signature *Keith J. Fritsky*
Inventor--Keith J. Fritsky

County of LEGIS

Before me personally appeared said Keith J. Fritsky and acknowledged the foregoing instrument to be his free act and deed this 3rd day of August 1998.

Dinah H. Jones
(NOTARY PUBLIC)

DINAH H. JONES
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires April 10, 2001