

09-25-2000

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JCE93 U.S. PTO
09/661628
09/13/00

CLIENT CODE: PULSE.105A

TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael D. McWilliams, George Jean
and Jacobus J. M. VanderKnyff

Additional name(s) of conveying party(ies) attached?

() Yes (X) No

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

Name: Pulse Engineering

Internal Address:

Street Address: 12220 World Trade Drive

City: San Diego State: CA ZIP: 92128

Additional name(s) of receiving party(ies) attached?

() Yes (X) No

3. Nature of conveyance:

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

Execution Date: June 28, 2000

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

(X) Application filed herewith

() Patent Application No(s):

() Patent No(s):

09/661628

Additional numbers attached? () Yes (X) No

5. Name and address of party to whom correspondence concernin document should be mailed:

Name: Robert F. Gazdzinski, Esq.
Internal Address: GAZDZINSKI & ASSOCIATES
Street Address: 3914 Murphy Canyon Road, Suite A232
City: San Diego State: CA ZIP: 92123

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

(X) Please charge our Deposit Account No. 501423 for additional fees which may be required or credit our account for any overpayment. (A copy of this page is attached for this purpose).

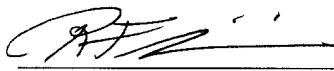
6. Total number of applications and patents involved: 1

8. Deposit account number:

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.

Name of Person Signing


Robert F. Gazdzinski; Reg. No. 39,990

9/13/00
Date

Total number of pages including cover sheet, attachments and document: 3

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

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

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09/25/2000 DNGUYEN 00000673 09661628

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40.00 OP

PATENT
REEL: 011086 FRAME: 0344

ASSIGNMENT

WHEREAS, We, Michael D. McWilliams, a United States citizen, residing at 1429 Ozark Road, Oceanside, California 92056, United States; George Jean, a United States citizen, residing at 580 Parkside Drive, Chula Vista, California 91910, United States; and Jacobus J. M. VanderKnyff, a United States citizen, residing at 1633 S. Pacific Street, Oceanside, California 92054, United States, have invented certain new and useful improvements in a ADVANCED ELECTRONIC MICROMINIATURE COIL AND METHOD OF MANUFACTURING for which we have filed an application for Letters Patent in the United States, Application No. to be assigned, filed herewith;

AND WHEREAS, PULSE ENGINEERING (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 12220 World Trade Drive, San Diego, California 92128, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents 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 all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28th day of June 2000.

Michael D. McWilliams
Michael D. McWilliams

STATE OF California
COUNTY OF San Diego ss.

On June 28, 2000, before me, Grace S. Mendoza, personally appeared Michael D. McWilliams personally known to me (or 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 executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Grace S. Mendoza
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28 day of June 2000.

George Jean
George Jean

STATE OF California
COUNTY OF San Diego] ss.

On June 28, 2000, before me, Grace S. Mendoza, personally appeared George Jean personally known to me (or 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 executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Grace S. Mendoza
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28th day of June 2000.

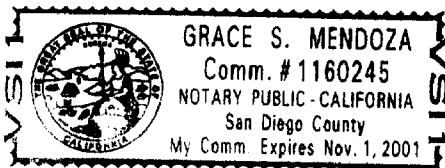
Jacobus J. M. VanderKnyff
Jacobus J. M. VanderKnyff

STATE OF California
COUNTY OF San Diego] ss.

On June 28, 2000, before me, Grace S. Mendoza, personally appeared Jacobus J. M. VanderKnyff personally known to me (or 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 executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Grace S. Mendoza
Notary Signature

ASSIGNMENT

WHEREAS, We, Michael D. McWilliams, a United States citizen, residing at 1429 Ozark Road, Oceanside, California 92056, United States; George Jean, a United States citizen, residing at 580 Parkside Drive, Chula Vista, California 91910, United States; and Jacobus J. M. VanderKnyff, a United States citizen, residing at 1633 S. Pacific Street, Oceanside, California 92054, United States, have invented certain new and useful improvements in a ADVANCED ELECTRONIC MICROMINIATURE COIL AND METHOD OF MANUFACTURING for which we have filed an application for Letters Patent in the United States, Application No. to be assigned, filed herewith;

AND WHEREAS, PULSE ENGINEERING (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 12220 World Trade Drive, San Diego, California 92128, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents 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 all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28th day of June 2000.

Michael D. McWilliams
Michael D. McWilliams

STATE OF California
COUNTY OF San Diego] ss.

On June 28, 2000, before me, Grace S. Mendoza, personally appeared Michael D. McWilliams personally known to me (or 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 executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Grace S. Mendoza
Notary Signature

COPY

PATENT

REEL: 011086 FRAME: 0347

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28 day of JUNE 2000.

George Jean
George Jean

STATE OF California
COUNTY OF San Diego] ss.

On June 28, 2000, before me, Grace S. Mendoza, personally appeared George Jean personally known to me (or 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 executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Grace S. Mendoza
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 28th day of June 2000.

Jacobus J. M. VanderKnyff
Jacobus J. M. VanderKnyff

STATE OF California
COUNTY OF San Diego] ss.

On June 28, 2000, before me, Grace S. Mendoza, personally appeared Jacobus J. M. VanderKnyff personally known to me (or 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 executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Grace S. Mendoza
Notary Signature

COPY