

9/11/03

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PA**09-15-2003
102550095**FINANCE SECTION**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

**Robert F. McLoughlin, George Gonnella,
Iraj Gashgace, Marc Laverdiere and Jennifer Marrs**Additional names of conveying parties attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

Execution date: **September 2, 2003**

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

Name: **Mykrolis Corporation**Address: **129 Concord Road
Billerica, MA 01821-4600**Additional name(s) & address(es) attached? ☐ Yes ☒ No

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. International Application No.(s)

B. Patent No.(s):

PCT/US03/22579Additional numbers attached? ☐ Yes ☒ No

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

**Kevin S. Lemack
Nields & Lemack
176 East Main Street
Westborough, MA 01581**6. Total number of applications and patents involved: **1**7. Total fee (37 CFR 3.41): **\$40.00**


- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: **14-0930**

DO NOT USE THIS SPACE

09/12/2003 BYRME 00000106 PCT/US03/22579
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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.*Kevin S. Lemack
Name of person signing
Signature**September 9, 2003**
DateAttorney Docket No.: **200200029-PCT** Total number of pages including cover sheet, attachments and document: **15****PATENT
REEL: 014472 FRAME: 0729**

ASSIGNMENT

WHEREAS, we, **Robert F. McLoughlin**, a U.S. citizen, residing at 2 Jefferson Drive, Pelham, New Hampshire 03076, **George Gonnella**, a U.S. citizen, residing at 24 Elliott Street, Pepperell, Massachusetts 01463-1412, **Iraj Gashgaaee**, a U.S. citizen, residing at 5 High Rock Circle, Waltham, Massachusetts 02451, **Marc Laverdiere**, a U.S. citizen, residing at 149 Broadway, Wakefield, Massachusetts 01880 and **Jennifer Mars**, a U.S. citizen, residing at 41 Churchill Drive, Cornish, New Hampshire 03745 have made an invention which invention is claimed and described in a provisional application of the United States of America entitled, "**LIQUID FLOW CONTROLLER AND PRECISION DISPENSE APPARATUS AND SYSTEM**" filed in the U.S. Patent and Trademark Office on **July 18, 2003** under PCT International Patent Application No. **PCT/US03/22579**; and

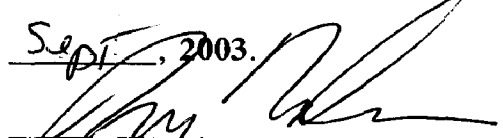
WHEREAS, **Mykrolis Corporation** of 129 Concord Road, Billerica, Massachusetts 01821-4600, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, is desirous of acquiring the entire right, title and interest in and to the invention and in any Letters Patent that may be granted therefor;

Now therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned by these presents do sell, assign, and transfer unto the said **Mykrolis Corporation**, our entire right, title and interest in and to the said invention and in and to the letters patent therefor aforesaid; the said interest to be held by **Mykrolis Corporation**, for its own use and behoof, and its successors, assigns or nominees, to the full end of the term for which said letters patent are granted, as fully and entirely as the same would have been held by Assignor had this Assignment and sale not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and respective Patent Office officials in any country foreign to the United States of America to issue said Letters Patent to said **Mykrolis Corporation** as the assignee of our entire right, title and interest in, to and under the same, and we hereby further authorize **Mykrolis Corporation** to apply for Letters Patent in our names or in its own name, as it in its sole discretion sees fit, utilizing any benefits which may exist under any International Agreement, in any country foreign to the United States of America.

And we do hereby agree for ourselves and for our heirs, executors and administrators to execute any lawful document and to testify as to any material fact or thing which **Mykrolis Corporation**, its successors and assigns may deem necessary in order to secure unto itself, its successors and assigns the full right, title and interest in and to and the full enjoyment of said invention or any part thereof and any Letters Patent, the same to be done without any further consideration.

IN WITNESS WHEREOF, we hereby set our hand and affix our seal this 2 day of

Sept., 2003.

Robert F. McLoughlin


George Gonnella

Iraq Gashgae

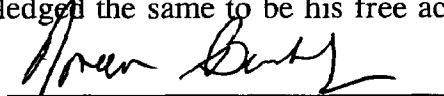
Marc Laverdiere

Jennifer Mars

STATE Massachusetts ,
:ss
COUNTY OF Middlesex)

On this day and year aforesaid, before me personally appeared **Robert F. McLoughlin**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Noreen Buckley
Notary Public
My Commission Expires
November 6, 2009


Notary Public

STATE OF MASSACHUSETTS)
 :SS
COUNTY OF Middlesex)

On this day and year aforesaid, before me personally appeared **George Gonnella**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Noreen Buckley
Notary Public
My Commission Expires
November 6, 2009

Noreen Buckley
Notary Public

STATE OF MASSACHUSETTS)
 :SS
COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Iraj Gashgaree**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)
 :SS
COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Marc Laverdiere**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)
 :SS
COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Jennifer Mars**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

ASSIGNMENT

WHEREAS, we, **Robert F. McLoughlin**, a U.S. citizen, residing at 2 Jefferson Drive, Pelham, New Hampshire 03076, **George Gonnella**, a U.S. citizen, residing at 24 Elliott Street, Pepperell, Massachusetts 01463-1412, **Iraj Gashgaae**, a U.S. citizen, residing at 5 High Rock Circle, Waltham, Massachusetts 02451, **Marc Laverdiere**, a U.S. citizen, residing at 149 Broadway, Wakefield, Massachusetts 01880 and **Jennifer Mars**, a U.S. citizen, residing at 41 Churchill Drive, Cornish, New Hampshire 03745 have made an invention which invention is claimed and described in a provisional application of the United States of America entitled, "**LIQUID FLOW CONTROLLER AND PRECISION DISPENSE APPARATUS AND SYSTEM**" filed in the U.S. Patent and Trademark Office on **July 18, 2003** under PCT International Patent Application No. **PCT/US03/22579**; and

WHEREAS, **Mykrolis Corporation** of 129 Concord Road, Billerica, Massachusetts 01821-4600, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, is desirous of acquiring the entire right, title and interest in and to the invention and in any Letters Patent that may be granted therefor;

Now therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned by these presents do sell, assign, and transfer unto the said **Mykrolis Corporation**, our entire right, title and interest in and to the said invention and in and to the letters patent therefor aforesaid; the said interest to be held by **Mykrolis Corporation**, for its own use and behoof, and its successors, assigns or nominees, to the full end of the term for which said letters patent are granted, as fully and entirely as the same would have been held by Assignor had this Assignment and sale not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and respective Patent Office officials in any country foreign to the United States of America to issue said Letters Patent to said **Mykrolis Corporation** as the assignee of our entire right, title and interest in, to and under the same, and we hereby further authorize **Mykrolis Corporation** to apply for Letters Patent in our names or in its own name, as it in its sole discretion sees fit, utilizing any benefits which may exist under any International Agreement, in any country foreign to the United States of America.

And we do hereby agree for ourselves and for our heirs, executors and administrators to execute any lawful document and to testify as to any material fact or thing which **Mykrolis Corporation**, its successors and assigns may deem necessary in order to secure unto itself, its successors and assigns the full right, title and interest in and to and the full enjoyment of said invention or any part thereof and any Letters Patent, the same to be done without any further consideration.

IN WITNESS WHEREOF, we hereby set our hand and affix our seal this 26th day of August, 2003.

Robert F. McLoughlin

Iraj Gashgaei
Iraj Gashgaei

George Gonnella

Marc Laverdiere
Marc Laverdiere

Jennifer Mars

STATE _____)

:ss

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Robert F. McLoughlin**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:ss

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **George Gonnella**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:ss

COUNTY OF Middlesex)

On this day and year aforesaid, before me personally appeared **Iraj Gashgaree**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Noleen Buckley
Notary Public
My Commission Expires
November 8, 2009

Noleen Buckley
Notary Public

STATE OF MASSACHUSETTS)

:ss

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Marc Laverdiere**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:ss

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Jennifer Mars**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

ASSIGNMENT

WHEREAS, we, **Robert F. McLoughlin**, a U.S. citizen, residing at 2 Jefferson Drive, Pelham, New Hampshire 03076, **George Gonnella**, a U.S. citizen, residing at 24 Elliott Street, Pepperell, Massachusetts 01463-1412, **Iraj Gashgaei**, a U.S. citizen, residing at 5 High Rock Circle, Waltham, Massachusetts 02451, **Marc Laverdiere**, a U.S. citizen, residing at 149 Broadway, Wakefield, Massachusetts 01880 and **Jennifer Mars**, a U.S. citizen, residing at 41 Churchill Drive, Cornish, New Hampshire 03745 have made an invention which invention is claimed and described in a provisional application of the United States of America entitled, "**LIQUID FLOW CONTROLLER AND PRECISION DISPENSE APPARATUS AND SYSTEM**" filed in the U.S. Patent and Trademark Office on **July 18, 2003** under PCT International Patent Application No. **PCT/US03/22579**; and

WHEREAS, **Mykrolis Corporation** of 129 Concord Road, Billerica, Massachusetts 01821-4600, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, is desirous of acquiring the entire right, title and interest in and to the invention and in any Letters Patent that may be granted therefor;

Now therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned by these presents do sell, assign, and transfer unto the said **Mykrolis Corporation**, our entire right, title and interest in and to the said invention and in and to the letters patent therefor aforesaid; the said interest to be held by **Mykrolis Corporation**, for its own use and behoof, and its successors, assigns or nominees, to the full end of the term for which said letters patent are granted, as fully and entirely as the same would have been held by Assignor had this Assignment and sale not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and respective Patent Office officials in any country foreign to the United States of America to issue said Letters Patent to said **Mykrolis Corporation** as the assignee of our entire right, title and interest in, to and under the same, and we hereby further authorize **Mykrolis Corporation** to apply for Letters Patent in our names or in its own name, as it in its sole discretion sees fit, utilizing any benefits which may exist under any International Agreement, in any country foreign to the United States of America.

And we do hereby agree for ourselves and for our heirs, executors and administrators to execute any lawful document and to testify as to any material fact or thing which **Mykrolis Corporation**, its successors and assigns may deem necessary in order to secure unto itself, its successors and assigns the full right, title and interest in and to and the full enjoyment of said invention or any part thereof and any Letters Patent, the same to be done without any further consideration.


IN WITNESS WHEREOF, we hereby set our hand and affix our seal this 20th day of August, 2003.

Robert F. McLoughlin

Iraj Gashgae

Jennifer Mars

George Gonnella



Marc Laverdiere

STATE _____)
 :SS
COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Robert F. McLoughlin**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:SS

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **George Gonnella**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:SS

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Iraj Gashgaei**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:SS

COUNTY OF Middlesex)

On this day and year aforesaid, before me personally appeared **Marc Laverdiere**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Noreen Buckley
Notary Public
My Commission Expires
November 6, 2009



Notary Public

STATE OF MASSACHUSETTS)

:SS

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Jennifer Mars**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

ASSIGNMENT

WHEREAS, we, **Robert F. McLoughlin**, a U.S. citizen, residing at 2 Jefferson Drive, Pelham, New Hampshire 03076, **George Gonnella**, a U.S. citizen, residing at 24 Elliott Street, Pepperell, Massachusetts 01463-1412, **Iraj Gashgaae**, a U.S. citizen, residing at 5 High Rock Circle, Waltham, Massachusetts 02451, **Marc Laverdiere**, a U.S. citizen, residing at 149 Broadway, Wakefield, Massachusetts 01880 and **Jennifer ^{marrs} ~~Mars~~**, a U.S. citizen, residing at 41 Churchill Drive, Cornish, New Hampshire 03745 have made an invention which invention is claimed and described in a provisional application of the United States of America entitled, "**LIQUID FLOW CONTROLLER AND PRECISION DISPENSE APPARATUS AND SYSTEM**" filed in the U.S. Patent and Trademark Office on **July 18, 2003** under PCT International Patent Application No. **PCT/US03/22579**; and

JM
8/23/02

WHEREAS, **Mykrolis Corporation** of 129 Concord Road, Billerica, Massachusetts 01821-4600, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, is desirous of acquiring the entire right, title and interest in and to the invention and in any Letters Patent that may be granted therefor;

Now therefore, for good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned by these presents do sell, assign, and transfer unto the said **Mykrolis Corporation**, our entire right, title and interest in and to the said invention and in and to the letters patent therefor aforesaid; the said interest to be held by **Mykrolis Corporation**, for its own use and behoof, and its successors, assigns or nominees, to the full end of the term for which said letters patent are granted, as fully and entirely as the same would have been held by Assignor had this Assignment and sale not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and respective Patent Office officials in any country foreign to the United States of America to issue said Letters Patent to said **Mykrolis Corporation** as the assignee of our entire right, title and interest in, to and under the same, and we hereby further authorize **Mykrolis Corporation** to apply for Letters Patent in our names or in its own name, as it in its sole discretion sees fit, utilizing any benefits which may exist under any International Agreement, in any country foreign to the United States of America.

And we do hereby agree for ourselves and for our heirs, executors and administrators to execute any lawful document and to testify as to any material fact or thing which **Mykrolis Corporation**, its successors and assigns may deem necessary in order to secure unto itself, its successors and assigns the full right, title and interest in and to and the full enjoyment of said invention or any part thereof and any Letters Patent, the same to be done without any further consideration.

IN WITNESS WHEREOF, we hereby set our hand and affix our seal this 24 day of August, 2003.

Robert F. McLoughlin

George Gonnella

Iraj Gashgae

Marc Laverdiere

 8/24/03

Jennifer Mars

STATE _____)
 :SS
COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Robert F. McLoughlin**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:ss

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **George Gonnella**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:ss

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Iraj Gashgace**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Notary Public

STATE OF MASSACHUSETTS)

:ss

COUNTY OF _____)

On this day and year aforesaid, before me personally appeared **Marc Laverdiere**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

New Hampshire
STATE OF ~~MASSACHUSETTS~~)
:ss
COUNTY OF *Grafton*)

Notary Public

On this day and year aforesaid, before me personally appeared **Jennifer Mars**, to me known and known to me to be the person described in and the person who executed the foregoing instrument of assignment and acknowledged the same to be his free act and deed.

Rachel A. Martin

Notary Public