

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4088360

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
EVA FAN GEFROH	07/24/2014
RANDOLPH W. SCHWEICKART	07/24/2014
KRISTA MARIE PETTY	07/24/2014
GREGORY THOMAS FRANK	07/25/2014
CHRISTINE SALSTROM TERPSMA	08/25/2014
ARTHUR C. HEWIG III	07/24/2014
JOSEPH EDWARD SCHULTZ	08/11/2014
RECEIVING PARTY DATA	
Name:	AMGEN INC.
Street Address:	ONE AMGEN CENTER DRIVE
City:	THOUSAND OAKS
State/Country:	CALIFORNIA
Postal Code:	91320
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15302762
CORRESPONDENCE DATA	
Fax Number:	(312)474-0448
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	312-474-6300
Email:	docket@marshallip.com
Correspondent Name:	MARSHALL, GERSTEIN & BORUN LLP (AMGEN)
Address Line 1:	233 SOUTH WACKER DRIVE
Address Line 2:	6300 WILLIS TOWER
Address Line 4:	CHICAGO, ILLINOIS 60606-6357
ATTORNEY DOCKET NUMBER:	32263/47766A
NAME OF SUBMITTER:	MICHAEL P. FURMANEK
SIGNATURE:	/Michael P. Furmanek/
DATE SIGNED:	10/07/2016

PATENT

Total Attachments: 36

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ASSIGNMENT

Whereas, I/we, Eva Fan Gefroh residing at 8122 126th Place SE, Newcastle, Washington 98056
United States of America

Randolph Whitfield Schweickart residing at 13258 NE 145th Place,
Woodinville, Washington 98072 United States of America

Krista Marie Petty residing at 1710 W. Hillcrest Drive, Apt. #7, Newbury Park,
California 91320 United States of America

Gregory Thomas Frank residing at 1758 Red Robin Place, Thousand Oaks,
California 91320 United States of America

Christine Salstrom Terpsma residing at 18242 58th Avenue NE, Kenmore,
Washington 98028 United States of America

Arthur Carl Hewig III residing at 951 Remington Place, Newbury Park,
California 91320 United States of America

Joseph Edward Shultz residing at Baslerstrasse 5A, Binningen – 4102,
Switzerland

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

**PROCESS CONTROL SYSTEMS AND METHODS FOR USE WITH
FILTERS AND FILTRATION PROCESSES**

which is found in:

- US Provisional Application No. 61/992,595 filed May 13, 2014.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by ASSIGNEE for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, and any extensions

thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for ASSIGNEE, may be necessary or desirable to secure the grant of Letters Patent to ASSIGNEE or its nominees, in the United States and in all other countries where ASSIGNEE may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed this assignment on 24 July 2014.
(Month, Day) (Year)

Eva Fan Gefroh
(Name of Inventor)

[Signature]
(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that Eva Fan Gefroh
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: July 24, 2014
Month/Day/Year

[Signature]
Signature of Notarizing Officer



NOTARY PUBLIC
Title

My appointment expires:
MARCH 1, 2015
Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on 7, 24 2014.
(Month, Day) (Year)

Randolph Whitfield Schweickart
(Name of Inventor)

Randolph W. Schweickart
(Signature of Inventor)

UNITED STATES OF AMERICA

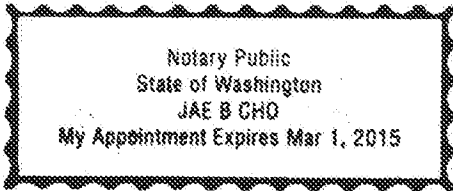
State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that Randolph Whitfield Schweickart
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: JULY 24, 2014
Month/Day/Year

[Signature]
Signature of Notarizing Officer



NOTARY PUBLIC
Title

My appointment expires:
MARCH 1, 2015
Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Krista Marie Petty
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____,
Notary Public, personally appeared

Krista Marie Petty

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Gregory Thomas Frank
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____

Notary Public, personally appeared

Gregory Thomas Frank

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Christine Salstrom Terpsma
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that Christine Salstrom Terpsma
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Arthur Carl Hewig III
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____,
Notary Public, personally appeared

Arthur Carl Hewig III

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Day, Month) (Year)

Joseph Edward Shultz (Name of Inventor) (Signature of Inventor)

Place of Execution: _____

Witness 1: Signature: _____ Date: _____ Name: _____ Address: _____ City: _____ Country: _____
Witness 2: Signature: _____ Date: _____ Name: _____ Address: _____ City: _____ Country: _____

ASSIGNMENT

Whereas, I/we, Eva Fan Gefroh residing at 8122 126th Place SE, Newcastle, Washington 98056
United States of America

Randolph Whitfield Schweickart residing at 13258 NE 145th Place,
Woodinville, Washington 98072 United States of America

Krista Marie Petty residing at 1710 W. Hillcrest Drive, Apt. #7, Newbury Park,
California 91320 United States of America

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California 91320 United States of America

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California 91320 United States of America

Joseph Edward Shultz residing at Baslerstrasse 5A, Binningen – 4102,
Switzerland

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

**PROCESS CONTROL SYSTEMS AND METHODS FOR USE WITH
FILTERS AND FILTRATION PROCESSES**

which is found in:

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For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

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In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Eva Fan Gefroh
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington

County of King

} ss.

I certify that I know or have satisfactory evidence that Eva Fan Gefroh
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Randolph Whitfield Schweickart
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington

County of King

} ss.

I certify that I know or have satisfactory evidence that Randolph Whitfield Schweickart
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on 07/24 2014.
(Month, Day) (Year)

Krista Marie Petty
(Name of Inventor)

[Handwritten Signature]
(Signature of Inventor)

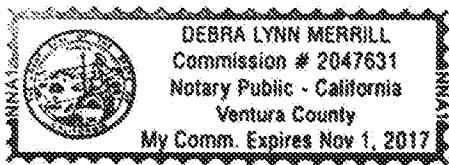
UNITED STATES OF AMERICA

State of California }
County of Ventura

On July 24, 2014 before me, Debra Lynn Merrill,
Notary Public, personally appeared

Krista Marie Petty

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in ~~his~~/~~her~~/their authorized capacity(ies), and that by ~~his~~/~~her~~/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Handwritten Signature]

Place Notary Seal Above

In Witness Whereof I have executed this assignment on 07/25 2014.
(Month, Day) (Year)

Gregory Thomas Frank
(Name of Inventor)

[Signature]
(Signature of Inventor)

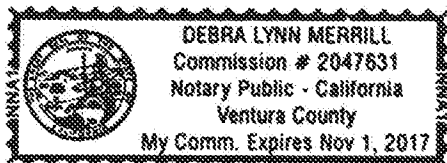
UNITED STATES OF AMERICA

State of California }
County of Ventura

On July 25, 2014 before me, Debra Lynn Merrill
Notary Public, personally appeared

Gregory Thomas Frank

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: [Signature]

Place Notary Seal Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Christine Salstrom Terpsma
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that Christine Salstrom Terpsma
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on July 24th 2014.
(Month, Day) (Year)

Arthur Carl Hewig III
(Name of Inventor)

[Signature]
(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

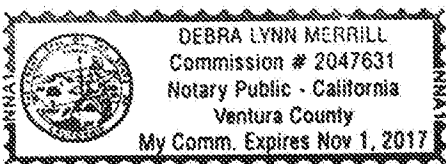
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Notary Public, personally appeared

Arthur Carl Hewig III

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WITNESS my hand and official seal.



Place Notary Seal Above

Signature: [Signature]

In Witness Whereof I have executed this assignment on _____ 2014.
(Day, Month) (Year)

Joseph Edward Shultz (Name of Inventor) _____ (Signature of Inventor)

Place of Execution: _____

Witness 1:

Witness 2:

Signature: _____ Signature: _____

Date: _____ Date: _____

Name: _____ Name: _____

Address: _____ Address: _____

City: _____ City: _____

Country: _____ Country: _____

ASSIGNMENT

Whereas, I/we, Eva Fan Gefroh residing at 8122 126th Place SE, Newcastle, Washington 98056 United States of America

Randolph Whitfield Schweickart residing at 13258 NE 145th Place, Woodinville, Washington 98072 United States of America

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Gregory Thomas Frank residing at 1758 Red Robin Place, Thousand Oaks, California 91320 United States of America

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Joseph Edward Shultz residing at Baslerstrasse 5A, Binningen – 4102, Switzerland

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PROCESS CONTROL SYSTEMS AND METHODS FOR USE WITH FILTERS AND FILTRATION PROCESSES

which is found in:

- US Provisional Application No. 61/992,595 filed May 13, 2014.

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thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

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ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for ASSIGNEE, may be necessary or desirable to secure the grant of Letters Patent to ASSIGNEE or its nominees, in the United States and in all other countries where ASSIGNEE may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Eva Fan Gefroh
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that _____
Eva Fan Gefroh
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Randolph Whitfield Schweickart
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington

County of King

} ss.

I certify that I know or have satisfactory evidence that Randolph Whitfield Schweickart
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Krista Marie Petty
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____,

Notary Public, personally appeared

Krista Marie Petty

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Gregory Thomas Frank
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____,

Notary Public, personally appeared

Gregory Thomas Frank

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

In Witness Whereof I have executed this assignment on August 25 2014.
(Month, Day) (Year)

Christine Salstrom Terpsma
(Name of Inventor)

Christine Salstrom Terpsma
(Signature of Inventor)

UNITED STATES OF AMERICA

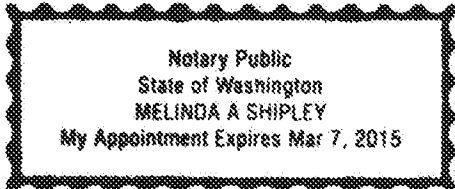
State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that Christine Salstrom Terpsma
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: August 25th 2014
Month/Day/Year

Melinda A Shipley
Signature of Notarizing Officer



Notary Public
Title

My appointment expires:

Mar 7 2015
Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Arthur Carl Hewig III
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____

Notary Public, personally appeared

Arthur Carl Hewig III

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

ASSIGNMENT

Whereas, I/we, Eva Fan Gefroh residing at 8122 126th Place SE, Newcastle, Washington 98056
United States of America

Randolph Whitfield Schweickart residing at 13258 NE 145th Place,
Woodinville, Washington 98072 United States of America

Krista Marie Petty residing at 1710 W. Hillcrest Drive, Apt. #7, Newbury Park,
California 91320 United States of America

Gregory Thomas Frank residing at 1758 Red Robin Place, Thousand Oaks,
California 91320 United States of America

Christine Salstrom Terpsma residing at 18242 58th Avenue NE, Kenmore,
Washington 98028 United States of America

Arthur Carl Hewig III residing at 951 Remington Place, Newbury Park,
California 91320 United States of America

Joseph Edward Shultz residing at Baslerstrasse 5A, Binningen – 4102,
Switzerland

(hereinafter referred to as ASSIGNOR), have made an invention which is the subject of an application for Letters Patent of the United States; and/or is the subject of a provisional application; and/or is the subject of an international application; and/or is the subject of other patent application(s) in other jurisdictions worldwide ("Application") entitled

**PROCESS CONTROL SYSTEMS AND METHODS FOR USE WITH
FILTERS AND FILTRATION PROCESSES**

which is found in:

- US Provisional Application No. 61/992,595 filed May 13, 2014.

Whereas AMGEN INC., a Delaware corporation having its principal place of business at One Amgen Center Drive, Thousand Oaks, California 91320-1799 wishes to acquire the entire right, title, and interest in all inventions disclosed in such Application;

Now, therefore, in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby sells, assigns, transfers and sets over unto AMGEN INC., its successors and assigns (collectively "ASSIGNEE") ASSIGNOR'S entire right, title and interest in, to and under the Application, and any provisional application(s) from which Application is derived, and all priority rights to which the Application may be entitled, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for such inventions, or any of them, including divisional, continuation, continuation-in-part, substitute, reissue, and/or reexamination applications based on the above identified Application, all such inventions and all rights in such Application and Letters Patent to be held and enjoyed by ASSIGNEE for its own use and enjoyment to the full end of the term or terms for which such Letters Patent may be granted, and any extensions

thereof, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made.

Further, ASSIGNOR hereby sells, assigns, transfers, and sets over unto ASSIGNEE ASSIGNOR'S entire right, title and interest in or to the right to refer to, to access, and to control microorganism(s) or other biological material(s) related to the Application and which are deposited by ASSIGNOR or at ASSIGNOR'S direction or deposited on ASSIGNOR'S behalf by ASSIGNEE, its affiliates, employees, or employees of its affiliates. The transfer of such right, title and interest includes, without limitation, ASSIGNOR'S unreserved and irrevocable consent and authorization to ASSIGNEE to refer to the deposited microorganism(s) or other biological material(s) in the Application and the right to make available to the public the deposited material in accordance with the laws, treaties, statutes, rules, regulations and the like of the United States, all other countries, and any patent granting authority or organization.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any foreign Patent Office authority to issue any such Letters Patent which may be granted on the Application to ASSIGNEE as assignee of the entire right, title and interest therein and thereto.

For ASSIGNOR and for ASSIGNOR'S legal representatives, ASSIGNOR covenants and agrees with ASSIGNEE that ASSIGNOR has not granted to any others any license to make, use or sell any of such inventions, that ASSIGNOR'S right, title and interest in such inventions has not been encumbered, that ASSIGNOR has good right and title to sell and assign the same, and that ASSIGNOR will not execute any instrument in conflict herewith.

For ASSIGNOR and for ASSIGNOR'S heirs, successors and legal representatives, ASSIGNOR further covenants and agrees with ASSIGNEE that upon request ASSIGNOR and ASSIGNOR'S heirs, successors and legal representatives will: (i) execute continuing, divisional, substitute, reexamination, and/or reissue applications, amended specifications, or rightful declarations or oaths; (ii) communicate to ASSIGNEE any facts known to ASSIGNOR or ASSIGNOR'S heirs, successors and legal representatives relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings or litigation; (iv) execute and deliver any application papers, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for ASSIGNEE, may be necessary or desirable to secure the grant of Letters Patent to ASSIGNEE or its nominees, in the United States and in all other countries where ASSIGNEE may desire to have such inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for ASSIGNEE and to vest and confirm in ASSIGNEE or its nominees the full and complete legal and equitable title to all such Letters Patent, without further consideration than that now paid at the expense of ASSIGNEE.

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Eva Fan Gefroh
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that _____
Eva Fan Gefroh
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Randolph Whitfield Schweickart
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that Randolph Whitfield Schweickart
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Krista Marie Petty
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____,
Notary Public, personally appeared

Krista Marie Petty

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Gregory Thomas Frank
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____,
Notary Public, personally appeared

Gregory Thomas Frank

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Christine Salstrom Terpsma
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of Washington }
County of King } ss.

I certify that I know or have satisfactory evidence that Christine Salstrom Terpsma
Name of Signer

is the person who appeared before me, and said person acknowledged that he/she signed this instrument and acknowledged it to be his/her free and voluntary act for the uses and purposes mentioned in the instrument.

Dated: _____
Month/Day/Year

Signature of Notarizing Officer

Title

My appointment expires:

Month/Day/Year of Appointment Expiration

Place Notary Seal and/or Stamp Above

In Witness Whereof I have executed this assignment on _____ 2014.
(Month, Day) (Year)

Arthur Carl Hewig III
(Name of Inventor)

(Signature of Inventor)

UNITED STATES OF AMERICA

State of California }
County of Ventura }

On _____ before me, _____

Notary Public, personally appeared

Arthur Carl Hewig III

who 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/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

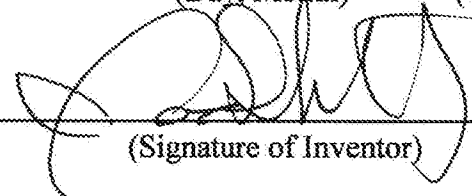
WITNESS my hand and official seal.

Signature: _____

Place Notary Seal Above

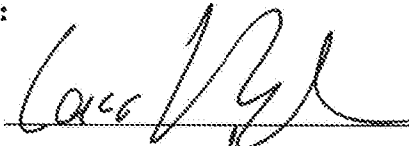
In Witness Whereof I have executed this assignment on 11, August 2014.
(Day, Month) (Year)

Joseph Edward Shultz
(Name of Inventor)


(Signature of Inventor)

Place of Execution: Basel, Switzerland

Witness 1:

Signature: 

Date: 11 August 2014

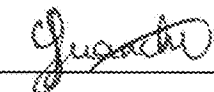
Name: LARS PAMPEL

Address: Hohlweg 11

City: RIEHEIN

Country: SWITZERLAND

Witness 2:

Signature: 

Date: 11 August 2014

Name: YEZMIN LOPES

Address: 16 GLOGGLIHOF

City: RIEHEIN 4125

Country: SWITZERLAND