505205458 11/27/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT5252226

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------|----------------|
| MICHAEL O. FOGWILL | 09/22/2014 |
| JOSEPH D. MICHIENZI | 09/22/2014 |
| JAMES P. MURPHY | 09/22/2014 |

RECEIVING PARTY DATA

| Name: | WATERS TECHNOLOGIES CORPORATION |
|-----------------|---------------------------------|
| Street Address: | 34 MAPLE STREET |
| City: | MILFORD |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 01757 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 16197601 |

CORRESPONDENCE DATA

Fax Number: (857)302-6843

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.

Phone: 857 287-3100

Email: judith.soule@wbd-us.com

WOMBLE BOND DICKINSON (US) LLP **Correspondent Name:**

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Address Line 4: BOSTON, MASSACHUSETTS 02110

| ATTORNEY DOCKET NUMBER: | W-817-US03CON | |
|---|-------------------|--|
| NAME OF SUBMITTER: | REBECCA N. BARNES | |
| SIGNATURE: /Rebecca N. Barnes, Reg. No. 62,751/ | | |
| DATE SIGNED: 11/27/2018 | | |

Total Attachments: 5

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> **PATENT** REEL: 047587 FRAME: 0590 505205458

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PATENT REEL: 047587 FRAME: 0591

ASSIGNMENT

WE, Michael O. Fogwill, Joseph D. Michienzi, and James P. Murphy of South Grafton, Massachusetts, Plainville, Massachusetts, and Franklin, Massachusetts, respectively, in consideration of good and other valuable consideration paid to us by

Waters Technologies Corporation

a Corporation of Delaware, having their principal place of business at 34 Maple Street, Milford, Massachusetts 01757, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said

Waters Technologies Corporation

their successors and assigns, the entire interest for the United States of America and all foreign countries including all rights of priority under the International Convention for the Protection of Industrial Property in a certain invention or improvement in

Catalytic Oxidation of Polar Modifiers in Chromatographic Mobile Phases

described in the following application:

x United States Application No. 14/484,350 filed on September 12, 2014

in the United States Patent and Trademark Office, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or any divisional, continuing, reissue, reexamination, substitution or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said Corporation and their successors and assigns but at their or their expense and charges, hereafter to execute all applications, amended specifications, deed or other instrument, and to do all acts necessary or proper to secure and/or maintain the grant of Letters Patent in the United States and in all other countries to said Corporation, with specifications and claims in such form as shall be approved by the counsel of said Corporation and to vest and confirm in said Corporation, its successors and assigns, the legal title to all such patents.

And we hereby convey to said Corporation all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including by not limited an any cause(s) of action and damages accruing prior to this assignment.

And we do hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention or improvement, carries with it the right for said Corporation to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent and the right to procure the grant of all Letters Patent to said Corporation in its own name.

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And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said Corporation, its successors and assigns.

And we do further hereby grant the attorneys/agents of McCarter & English LLP, the power to insert on this Assignment the filing date and/or application number of said application.

IN TESTIMONY WHEREOF, we have hereunto set our hands-and affixed our seals on the date(s) set forth below.

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CHERYL KEELER
Notary Public
Massachusetts
Commission Expires May 30, 2019

| | Michael O. Fogwill |
|--|---|
| Date: Sept 22, 2014 | |
| United States of America, | |
| State of Massachusetts ss.: | |
| State of <u>Massachusetts</u>) ss.: County of <u>Woreester</u> | |
| On this 22 nd day of Leglember personally came Michael O. Fogwill | , before me, to me known to be the individual |
| described in and who executed the foregoing instrumen | t, and acknowledged execution |
| of the same. | |
| | Cherge Keeler |

| Which |
|--|
| Joseph D. Michienzi |
| Date: <u>September 22, 2014</u> |
| United States of America) |
| State of Massachusetts) ss.: |
| County of Worceskr |
| On this 22 nd day of September 2014, before me |
| personally came Joseph D. Michienzi , to me known to be the individual |
| described in and who executed the foregoing instrument, and acknowledged execution |
| of the same. Cheryl Keller |
| Notary Public O |



CHERYL KEELER
Notary Public
Massachusetts
Commission Expires May 30, 2019

| | Juna J IVM |
|---|-------------------------------------|
| | James P. Mulphy |
| Date: 9/22/17 | |
| United States of America) | |
| State of Massachuset/s) ss.: | |
| County of Worces (er) | |
| On this 22 nd day of September, | 2014 , before me |
| personally came James P. Murphy | _, to me known to be the individual |
| described in and who executed the foregoing instrument, | and acknowledged execution |
| of the same. | |
| | Cheryl Keeler |
| Notary | Public 0 |
| | |

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RECORDED: 11/27/2018