

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5686131

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ROY HOWARD BYERLY	01/23/2018
PATRICK KEVIN MURPHY	01/24/2018
RUSSELL WAYNE PERKINS	01/23/2018
SEAN MATTHEW PSZENNY	01/24/2018
OLIVER BRIAN REGELE	01/24/2018
FLEXTRONICS DESIGN S.R.L.	01/24/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Eli Lilly and Company
<b>Street Address:</b>	Lilly Corporate Center
<b>Internal Address:</b>	Patent Division
<b>City:</b>	Indianapolis
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	46285
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16488721
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(317)276-3861
<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>	
<b>Email:</b>	patents@lilly.com
<b>Correspondent Name:</b>	ELI LILLY AND COMPANY
<b>Address Line 1:</b>	P. O. BOX 6288
<b>Address Line 2:</b>	PATENT DIVISION
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46206-6288
<b>ATTORNEY DOCKET NUMBER:</b>	X21457
<b>NAME OF SUBMITTER:</b>	PATRICIA A FOOR
<b>SIGNATURE:</b>	/Patricia A Foor/
<b>DATE SIGNED:</b>	08/26/2019

**Total Attachments: 17**

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source=X21457\_US PCT Assignment-REGELE#page3.tif  
source=X21457\_US PCT Assignment-FLEX to LILLY#page1.tif  
source=X21457\_US PCT Assignment-FLEX to LILLY#page2.tif

**ASSIGNMENT****WHEREAS, I**

**Roy Howard BYERLY, Indianapolis, IN; Citizenship: United States**

am a co-inventor, including at least the following person(s):

Russell Wayne PERKINS, Carmel, IN; Citizenship: United States  
Rossano Claudio MASSARI, Lissone (MB), Italy; Citizenship: Italy  
Patrick Kevin MURPHY, Allston, MA; Citizenship: United States  
Davide PACCIORETTI, Samarate (VA) Italy; Citizenship: Italy  
Sean Matthew PSZENNY, Allston, MA; Citizenship: United States  
Oliver Brian REGELE, Cambridge, MA; Citizenship: United States

of an invention that is the subject of a patent application ("Application") which is entitled **DOSE DETECTION AND DRUG IDENTIFICATION FOR A MEDICATION DELIVERY DEVICE** for filing:

☐ in the United States Patent and Trademark Office on \_\_\_\_\_  
and accorded Serial Number \_\_\_\_\_,

☐ in the \_\_\_\_\_ on \_\_\_\_\_  
and accorded Serial Number \_\_\_\_\_,

☐ in the Spanish Patent Office as a European Application on \_\_\_\_\_  
and accorded Serial Number \_\_\_\_\_,

☒ as an international application under the Patent Cooperation Treaty ("PCT"),  
with United States Patent and Trademark Office acting as Receiving Office on  
22 February 2018 and accorded Serial Number PCT/US2018/019156

☐ as an international application under the Patent Cooperation Treaty ("PCT"),  
with The State Intellectual Property Office (SIPO) of China acting as Receiving  
Office on \_\_\_\_\_ and accorded Serial Number \_\_\_\_\_,

which claims the benefit of the following priority applications:

Serial Number 62/464,662 filed February 28, 2017,  
Serial Number 62/539,106 filed July 31, 2017, and  
Serial Number 62/552,556 filed August 31, 2017.

I hereby give permission to insert above the serial number(s) and filing date(s) for the application when known.

**WHEREAS ELI LILLY AND COMPANY**, an Indiana corporation having its principal place of business at Lilly Corporate Center, Indianapolis, Indiana 46285, wishes to acquire the entire interest in all inventions disclosed in such Application;

**NOW, THEREFORE**, in consideration of my employment, any agreements related thereto, or other good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign to Eli Lilly and Company, its successors and assigns

(collectively "Lilly") my entire right, title and interest in, to and under the Application, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all present or future patent applications to such inventions that may be filed in any country, inclusive of, but not limited to, continuations, continuations-in-part, divisions, substitutions, reexaminations, reissues, international applications filed under the PCT, United States provisional patent applications, subsequent United States provisional patent applications claiming some or all of this invention, certificates of addition, utility models, petty patents, as well as all other intellectual property related to the Application, inclusive of, but not limited to, supplementary protection certificates; and any related patent term extensions which may be granted for Letters Patent with respect to the Application; all of the above to be held and enjoyed by Lilly for its own use and enjoyment to the full end of the term or terms for which such Letters Patent and related intellectual property rights may be granted, as fully and entirely as the same would have been held and enjoyed by me had this Assignment and sale to Lilly not been made.

For myself and for my heirs, successors and legal representatives, I covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

For myself and for my heirs, successors and legal representatives, I further covenant and agree with Lilly that upon request I and they will, without further consideration than that now paid, but at the expense of Lilly: (i) execute original, provisional, substitute, continuation, divisional, continuation-in-part, reexamined, or reissued applications, amended specifications, or rightful declarations or oaths for such application; (ii) communicate to Lilly any facts known to me or them relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings, litigation discovery proceedings and depositions, oppositions, cancellation proceedings, priority contests, public use proceedings, administrative agency proceedings, litigation and other court actions and the like; (iv) execute and deliver any application papers, affidavits, declarations, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for Lilly, may be necessary or desirable to secure the grant of Letters Patent and related intellectual property to Lilly or its nominees, in the United States and in all other countries where Lilly 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 Lilly and to vest and confirm in Lilly or its nominees the full and complete legal and equitable title to all such Letters Patent and related intellectual property.

I have executed this assignment on the date indicated below.

23 JAN-2018  
Date

  
ROY HOWARD BYERLY

ACCEPTED BY:

  
\_\_\_\_\_  
Authorized Representative  
for ELI LILLY AND COMPANY

Printed Name: M. Daniel Spillman

Title: Patent Counsel

Date Feb 2 2018

**ASSIGNMENT****WHEREAS, I****Patrick Kevin MURPHY, Allston, MA; Citizenship: United States**

am a co-inventor, including at least the following person(s):

Roy Howard BYERLY, Indianapolis, IN; Citizenship: United States  
Rossano Claudio MASSARI, Lissone (MB), Italy; Citizenship: Italy  
Davide PACCIORETTI, Samarate (VA) Italy; Citizenship: Italy  
Russell Wayne PERKINS, Carmel, IN; Citizenship: United States  
Sean Matthew PSZENNY, Allston, MA; Citizenship: United States  
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acknowledged, I hereby assign to Eli Lilly and Company, its successors and assigns (collectively "Lilly") my entire right, title and interest in, to and under the Application, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all present or future patent applications to such inventions that may be filed in any country, inclusive of, but not limited to, continuations, continuations-in-part, divisions, substitutions, reexaminations, reissues, international applications filed under the PCT, United States provisional patent applications, subsequent United States provisional patent applications claiming some or all of this invention, certificates of addition, utility models, petty patents, as well as all other intellectual property related to the Application, inclusive of, but not limited to, supplementary protection certificates; and any related patent term extensions which may be granted for Letters Patent with respect to the Application; all of the above to be held and enjoyed by Lilly for its own use and enjoyment to the full end of the term or terms for which such Letters Patent and related intellectual property rights may be granted, as fully and entirely as the same would have been held and enjoyed by me had this Assignment and sale to Lilly not been made.

For myself and for my heirs, successors and legal representatives, I covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

For myself and for my heirs, successors and legal representatives, I further covenant and agree with Lilly that upon request I and they will, without further consideration than that now paid, but at the expense of Lilly: (i) execute original, provisional, substitute, continuation, divisional, continuation-in-part, reexamined, or reissued applications, amended specifications, or rightful declarations or oaths for such application; (ii) communicate to Lilly any facts known to me or them relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings, litigation discovery proceedings and depositions, oppositions, cancellation proceedings, priority contests, public use proceedings, administrative agency proceedings, litigation and other court actions and the like; (iv) execute and deliver any application papers, affidavits, declarations, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for Lilly, may be necessary or desirable to secure the grant of Letters Patent and related intellectual property to Lilly or its nominees, in the United States and in all other countries where Lilly 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 Lilly and to vest and confirm in Lilly or its nominees the full and complete legal and equitable title to all such Letters Patent and related intellectual property.

I have executed this assignment on the date indicated below.

1/24/18  
Date

  
PATRICK KEVIN MURPHY

ACCEPTED BY:



Authorized Representative  
for ELI LILLY AND COMPANY

Printed Name: M. Daniel Spillman

Title: Patent Counsel

Date: FEB 02 2018



## ASSIGNMENT

WHEREAS, I

Russell Wayne PERKINS, Carmel, IN; Citizenship: United States

am a co-inventor, including at least the following person(s):

Roy Howard BYERLY, Indianapolis, IN; Citizenship: United States  
Rossano Claudio MASSARI, Lissone (MB), Italy; Citizenship: Italy  
Patrick Kevin MURPHY, Allston, MA; Citizenship: United States  
Davide PACCIORETTI, Samarate (VA) Italy; Citizenship: Italy  
Sean Matthew PSZENNY, Allston, MA; Citizenship: United States  
Oliver Brian REGELE, Cambridge, MA; Citizenship: United States

of an invention that is the subject of a patent application ("Application") which is entitled DOSE  
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☐ in the \_\_\_\_\_ on \_\_\_\_\_  
and accorded Serial Number \_\_\_\_\_,

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and accorded Serial Number \_\_\_\_\_,

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with United States Patent and Trademark Office acting as Receiving Office on  
22 February 2018 and accorded Serial Number PCT/US2018/01956

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place of business at Lilly Corporate Center, Indianapolis, Indiana 46285, wishes to acquire the  
entire interest in all inventions disclosed in such Application;

NOW, THEREFORE, in consideration of my employment, any agreements related  
thereto, or other good and valuable consideration, the receipt of which is hereby  
acknowledged, I hereby assign to Eli Lilly and Company, its successors and assigns

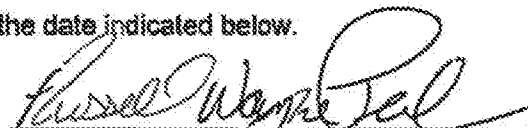
(collectively "Lilly") my entire right, title and interest in, to and under the Application, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all present or future patent applications to such inventions that may be filed in any country, inclusive of, but not limited to, continuations, continuations-in-part, divisions, substitutions, reexaminations, reissues, international applications filed under the PCT, United States provisional patent applications, subsequent United States provisional patent applications claiming some or all of this invention, certificates of addition, utility models, petty patents, as well as all other intellectual property related to the Application, inclusive of, but not limited to, supplementary protection certificates; and any related patent term extensions which may be granted for Letters Patent with respect to the Application; all of the above to be held and enjoyed by Lilly for its own use and enjoyment to the full end of the term or terms for which such Letters Patent and related intellectual property rights may be granted, as fully and entirely as the same would have been held and enjoyed by me had this Assignment and sale to Lilly not been made.

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I have executed this assignment on the date indicated below.

23 JAN 2018  
Date

  
\_\_\_\_\_  
RUSSELL WAYNE PERKINS

ACCEPTED BY:

  
\_\_\_\_\_  
Authorized Representative  
for ELI LILLY AND COMPANY

Printed Name: M. Daniel Spillman

Title: Patent Counsel

Date FEB 02 2018

**ASSIGNMENT****WHEREAS, I****Sean Matthew PSZENNY, Allston, MA; Citizenship: United States**

am a co-inventor, including at least the following person(s):

Roy Howard BYERLY, Indianapolis, IN; Citizenship: United States  
Rossano Claudio MASSARI, Lissone (MB), Italy; Citizenship: Italy  
Patrick Kevin MURPHY, Allston, MA; Citizenship: United States  
Davide PACCIORETTI, Samarate (VA) Italy; Citizenship: Italy  
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Oliver Brian REGELE, Cambridge, MA; Citizenship: United States

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22 February 2018 and accorded Serial Number PCT/US2018/019156

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place of business at Lilly Corporate Center, Indianapolis, Indiana 46285, wishes to acquire the  
entire interest in all inventions disclosed in such Application;

**NOW, THEREFORE**, in consideration of my employment, any agreements related  
thereto, or other good and valuable consideration, the receipt of which is hereby

acknowledged, I hereby assign to Eli Lilly and Company, its successors and assigns (collectively "Lilly") my entire right, title and interest in, to and under the Application, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all present or future patent applications to such inventions that may be filed in any country, inclusive of, but not limited to, continuations, continuations-in-part, divisions, substitutions, reexaminations, reissues, international applications filed under the PCT, United States provisional patent applications, subsequent United States provisional patent applications claiming some or all of this invention, certificates of addition, utility models, petty patents, as well as all other intellectual property related to the Application, inclusive of, but not limited to, supplementary protection certificates; and any related patent term extensions which may be granted for Letters Patent with respect to the Application; all of the above to be held and enjoyed by Lilly for its own use and enjoyment to the full end of the term or terms for which such Letters Patent and related intellectual property rights may be granted, as fully and entirely as the same would have been held and enjoyed by me had this Assignment and sale to Lilly not been made.

For myself and for my heirs, successors and legal representatives, I covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

For myself and for my heirs, successors and legal representatives, I further covenant and agree with Lilly that upon request I and they will, without further consideration than that now paid, but at the expense of Lilly: (i) execute original, provisional, substitute, continuation, divisional, continuation-in-part, reexamined, or reissued applications, amended specifications, or rightful declarations or oaths for such application; (ii) communicate to Lilly any facts known to me or them relating to such inventions or the history thereof; (iii) execute preliminary statements and testify in any interference proceedings, litigation discovery proceedings and depositions, oppositions, cancellation proceedings, priority contests, public use proceedings, administrative agency proceedings, litigation and other court actions and the like; (iv) execute and deliver any application papers, affidavits, declarations, assignments, or other instruments; and (v) do all other acts which, in the opinion of counsel for Lilly, may be necessary or desirable to secure the grant of Letters Patent and related intellectual property to Lilly or its nominees, in the United States and in all other countries where Lilly 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 Lilly and to vest and confirm in Lilly or its nominees the full and complete legal and equitable title to all such Letters Patent and related intellectual property.

I have executed this assignment on the date indicated below.

24-JAN-2018  
Date

  
SEAN MATTHEW PSZENNY

ACCEPTED BY:

  
\_\_\_\_\_  
Authorized Representative  
for ELI LILLY AND COMPANY

Printed Name: M. Daniel Spillman

Title: Patent Counsel

Date: FEB 02 2018

**ASSIGNMENT****WHEREAS, I****Oliver Brian REGELE, Cambridge, MA; Citizenship: United States**

am a co-inventor, including at least the following person(s):

Roy Howard BYERLY, Indianapolis, IN; Citizenship: United States  
Rossano Claudio MASSARI, Lissone (MB), Italy; Citizenship: Italy  
Patrick Kevin MURPHY, Allston, MA; Citizenship: United States  
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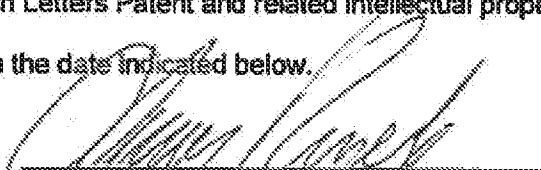
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I have executed this assignment on the date indicated below.

01/24/2018

Date

  
OLIVER BRIAN REGELE



ACCEPTED BY:

  
\_\_\_\_\_  
Authorized Representative  
for ELI LILLY AND COMPANY

Printed Name: M. Daniel Spillman

Title: Patent Counsel

Date: FFB022018

## ASSIGNMENT

WHEREAS, FLEXTRONICS DESIGN S.R.L., ("Flextronics"), having a place of business at Milan via Ernesto Breda 176 - 20126 Milano, Italy, by virtue of an assignment between Rossano Claudio Massari, Davide Pacciorelli and Flextronics, is the Assignee of the right, title and interest in an invention that is the subject of a patent application ("Application") which is entitled DOSE DETECTION AND DRUG IDENTIFICATION FOR A MEDICATION DELIVERY DEVICE for filing:

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Serial Number 62/552,556 filed August 31, 2017.

I hereby give permission to insert above the serial number(s) and filing date(s) for the application when known.

WHEREAS, ELI LILLY AND COMPANY ("ASSIGNEE"), having a place of business at Lilly Corporate Center, Indianapolis, IN 46285 wishes to acquire the entire right, title and interest in and to all invention disclosed in such Application, and in, to and under any Letters Patent which may be obtained to said invention; AND WHEREAS, accordingly the parties hereto are executing this Deed of assignment to record in writing the terms and conditions of their understanding.

NOW, THEREFORE, pursuant an agreement between ASSIGNEE and Flextronics or other good and valuable consideration, the receipt of which is hereby acknowledged, Flextronics hereby sells, assigns, transfers and sets over unto ASSIGNEE, its successors and assigns Flextronics' entire right, title and interest in, to and under the Application, including all priority rights for other countries arising therefrom, all inventions therein disclosed, and any and all present or future patent applications to such inventions that may be filed in any country, inclusive of, but not limited to, continuations, continuations-in-part, divisions, substitutions, reexaminations, reissues, international applications filed under the PCT, United States provisional patent applications, subsequent United States provisional patent applications claiming some or all of this invention, certificates of addition, utility models, petty patents, as

well as all other intellectual property related to the Application, inclusive of, but not limited to, supplementary protection certificates; and any related patent term extensions which may be granted for Letters Patent with respect to the Application; all of the above to be held and enjoyed by the ASSIGNEE for its own use and enjoyment to the full end of the term or terms for which such Letters Patent and related intellectual property rights may be granted, as fully and entirely as the same would have been held and enjoyed by Flextronics had this Assignment and sale to ASSIGNEE not been made.

Flextronics authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any foreign equivalent thereof, 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 ASSIGNEE and its legal representative, Flextronics covenants and agrees that Flextronics has not granted to any others any license to make, use or sell any of such inventions, that Flextronics' right, title and interest in such inventions has not been encumbered, that Flextronics has good right and title to sell and assign the same, and that Flextronics will not execute any instrument in conflict therewith.

IN WITNESS WHEREOF I have executed this assignment on the date indicated below.



Authorized Representative for  
FLEXTRONICS DESIGN S.R.L.

Printed Name MICHELE TONIC  
Title VP GEN DESIGN ENGINEERING  
Date JAN 24th 2018

ELI LILLY AND COMPANY, the assignee, hereby accepts the assignment from FLEXTRONICS DESIGN S.R.L. without any restrictions, and with all rights and obligations derived therefrom.



Authorized Representative for  
ELI LILLY AND COMPANY

Printed Name: M. Daniel Spillman  
Title: Patent Counsel  
Date: FEB 22 2018