

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5112072

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CRAIG KARL WHITE	10/06/2017
ALICIA JERRAM HUNTER EVANS	10/13/2017
MATTHEW JON PAYTON	10/06/2017
GERALDINE FRANCES KEOGH	10/16/2017
NICHOLAS SIMON DAVID CONNOLLY	10/04/2017
ANIL PATEL	01/18/2018
SEYED AHMAD REZA NOURAEI	08/03/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FISHER & PAYKEL HEALTHCARE LIMITED
<b>Street Address:</b>	15 MAURICE PAYKEL PLACE
<b>Internal Address:</b>	EAST TAMAKI
<b>City:</b>	AUCKLAND
<b>State/Country:</b>	NEW ZEALAND
<b>Postal Code:</b>	2013
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15562880
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(949)760-9502
<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>Phone:</b>	949-760-0404
<b>Email:</b>	efiling@knobbe.com
<b>Correspondent Name:</b>	KNOBBE, MARTENS, OLSON & BEAR, LLP
<b>Address Line 1:</b>	2040 MAIN STREET
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<b>Address Line 4:</b>	IRVINE, CALIFORNIA 92614
<b>ATTORNEY DOCKET NUMBER:</b>	FPHCR.568NP
<b>NAME OF SUBMITTER:</b>	BRYAN WAHL
<b>SIGNATURE:</b>	/Bryan Wahl/

PATENT

<b>DATE SIGNED:</b>	08/27/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 9</b> source=Signed Declaration Assignment - FPHCR.568NP#page1.tif source=Signed Declaration Assignment - FPHCR.568NP#page2.tif source=Signed Declaration Assignment - FPHCR.568NP#page3.tif source=Signed Declaration Assignment - FPHCR.568NP#page4.tif source=Signed Declaration Assignment - FPHCR.568NP#page5.tif source=Signed Declaration Assignment - FPHCR.568NP#page6.tif source=Signed Declaration Assignment - FPHCR.568NP#page7.tif source=Signed Declaration Assignment - FPHCR.568NP#page8.tif source=Signed Declaration Assignment - FPHCR.568NP#page9.tif	

**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

*Application Data Sheet filed previously or concurrently*

Docket No.: FPHCR.568NP

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Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh, Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nouraei

***Declaration***

This Declaration is directed to the application identified above that:

Was filed **September 28, 2017** as U.S. Application No. **15/562880** and incorporating any amendments made thereto prior to the signature date of this Declaration.

As a named inventor, I declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

***Assignment from Inventors***

WHEREAS, **above-identified inventors** (individuals hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental designs, or discoveries, and hereby assign or are under an obligation to assign to the below identified Assignee the above-titled application (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States (identified above) has been prepared for filing with the United States Patent and Trademark Office (hereinafter the "Application").

AND WHEREAS, **Fisher & Paykel Healthcare Limited**, with its principal place of business at 15 Maurice Paykel Place, East Tamaki, Auckland, New Zealand, 2013 (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work.

NOW, THEREFORE, for good and valuable consideration of which receipt is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all Patent Properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all provisional applications relating thereto (including but not limited to U.S. Provisional Application Nos. **62/140727** filed on **March 31, 2015**, and **62/232231** filed on **September 24, 2015**);

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, 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 any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all

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extensions, renewals and reissues thereof, including PCT Application No. PCT/IB2016/051816 filed on March 31, 2016.

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned Patent Properties, and authorizes and requests 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 related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

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Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh,  
Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nouraei

Legal Name of inventor: Craig Karl White

Signature:  Date: 8 Oct 2017

Witnessed by: MARTINA MITCHELL

Witness Name (printed): MARTINA MITCHELL

**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

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Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh,  
Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nouraei

Legal Name of inventor: Alicia Jerram Hunter Evans

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

13 Oct 2017

Witnessed by: \_\_\_\_\_

MARTINA MUELLERS

Witness Name (printed): \_\_\_\_\_

MARTINA MUELLERS

**PATENT**

**REEL: 046714 FRAME: 0262**

**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

*Application Data Sheet filed previously or concurrently*

Docket No.: FPHCR.568NP

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Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh,  
Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nouraei

Legal Name of inventor: Matthew Jon Payton

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

6/06/17

Witnessed by: \_\_\_\_\_



Witness Name (printed): \_\_\_\_\_

MARTINA MUEHLE

**PATENT**

**REEL: 046714 FRAME: 0263**

**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

*Application Data Sheet filed previously or concurrently*

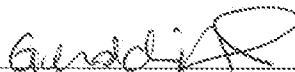
Docket No.: FPHCR.568NP

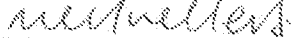
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Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh,  
Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nouraei

Legal Name of inventor: Geraldine Frances Keogh

Signature:  Date: 16 OCT 13.

Witnessed by: 

Witness Name (printed): MARTINA M. VELAZQUEZ



**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

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Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh,  
Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nouraei

Legal Name of inventor: Nicholas Simon David Connolly

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

4<sup>th</sup> October 2017

Witnessed by: \_\_\_\_\_



Witness Name (printed): \_\_\_\_\_

SOPHIE DANKS

**PATENT**

**REEL: 046714 FRAME: 0265**

**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

*Application Data Sheet filed previously or concurrently*

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Docket No.: FPHCR.568NP

Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh,  
Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nourael

Legal Name of Inventor: Anil Patel

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Witnessed by: \_\_\_\_\_

Witness Name (printed): \_\_\_\_\_

RAKESH PATEL

**COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))**

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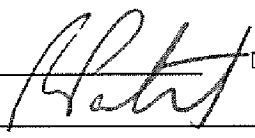
Title: METHODS AND APPARATUS FOR HIGH GAS FLOW

Inventors: Craig Karl White, Alicia Jerram Hunter Evans, Matthew Jon Payton, Geraldine Frances Keogh,  
Nicholas Simon David Connolly, Anil Patel, and Seyed Ahmad Reza Nouraei

Legal Name of inventor: Seyed Ahmad Reza Nouraei

Signature: 

Date: 3 August 2018

Witnessed by: 

Witness Name (printed): Dr Anil Patel

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