

PCT REQUESTOriginal (for **SUBMISSION**)

0	For receiving Office use only	PCT/US18/48785
0-1	International Application No.	
0-2	International Filing Date	30-08-2018 30 AUG 2018
0-3	Name of receiving Office and "PCT International Application"	PCT INTERNATIONAL APPLICATION RO/US
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EFS-Web mode] Version 3.51.081.257 MT/FOP 20180401/0.20.5.24
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	070391722WO1
I	Title of Invention	SYSTEMS AND METHODS FOR CONTROLLING BREATHING
II	Applicant	
II-1	This person is	Applicant only
II-2	Applicant for	All designated States
II-4	Name	MAYO FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH
II-5	Address	200 First Street S.W. Rochester, Minnesota 55905 United States of America
II-6	State of nationality	US
II-7	State of residence	US
III-1	Applicant and/or inventor	
III-1-1	This person is	Applicant and inventor
III-1-2	Applicant for	All designated States
III-1-4	Name (LAST, First)	BERRY, Brent M.
III-1-5	Address	5674 Harvest Moon Blvd Rochester, Minnesota 55901-5674 United States of America
III-1-6	State of nationality	US
III-1-7	State of residence	US

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III-2	Applicant and/or inventor	
III-2-1	This person is	Applicant and inventor
III-2-2	Applicant for	All designated States
III-2-4	Name (LAST, First)	MANTILLA, Carlos B.
III-2-5	Address	1951 Hawthorn Hill Road NE Rochester, Minnesota 55906-8562 United States of America
III-2-6	State of nationality	US
III-2-7	State of residence	US
III-3	Applicant and/or inventor	
III-3-1	This person is	Applicant and inventor
III-3-2	Applicant for	All designated States
III-3-4	Name (LAST, First)	KHURRAM, Obaid
III-3-5	Address	1617 4th Street NW Apt. 217 Rochester, Minnesota 55920 United States of America
III-3-6	State of nationality	US
III-3-7	State of residence	US
III-4	Applicant and/or inventor	
III-4-1	This person is	Applicant and inventor
III-4-2	Applicant for	All designated States
III-4-4	Name (LAST, First)	KARGAR, Soudabeh
III-4-5	Address	621 4th Street SW Apt. A2 Rochester, Minnesota 55902-3226 United States of America
III-4-6	State of nationality	US
III-4-7	State of residence	US
III-5	Applicant and/or inventor	
III-5-1	This person is	Applicant and inventor
III-5-2	Applicant for	All designated States
III-5-4	Name (LAST, First)	MOZINGO, Joseph D.
III-5-5	Address	625 3rd Street SW Apt. 13 Rochester, Minnesota 55902-4002 United States of America
III-5-6	State of nationality	US
III-5-7	State of residence	US

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III-6	Applicant and/or inventor	
III-6-1	This person is	Applicant and inventor
III-6-2	Applicant for	All designated States
III-6-4	Name (LAST, First)	KUCEWICZ, Michal T.
III-6-5	Address	730 5th Street SW Apt. 14 Rochester, Minnesota 55902-2944 United States of America
III-6-6	State of nationality	PL
III-6-7	State of residence	US
III-7	Applicant and/or inventor	
III-7-1	This person is	Applicant and inventor
III-7-2	Applicant for	All designated States
III-7-4	Name (LAST, First)	DANIEL, Erik S.
III-7-5	Address	397 Sycamore Grove Street Simi Valley, California 93065 United States of America
III-7-6	State of nationality	US
III-7-7	State of residence	US
III-8	Applicant and/or inventor	
III-8-1	This person is	Applicant and inventor
III-8-2	Applicant for	All designated States
III-8-4	Name (LAST, First)	SIECK, Gary C.
III-8-5	Address	5877 Riveridge Ct NE Rochester, Minnesota 55906 United States of America
III-8-6	State of nationality	US
III-8-7	State of residence	US

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IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	Agent
IV-1-1	Name (LAST, First)	WESTERN, Paul
IV-1-2	Address	Fish & Richardson P.C. PO Box 1022 Minneapolis, Minnesota 55440-1022 United States of America
IV-1-3	Telephone No.	(612) 337-2567
IV-1-4	Facsimile No.	(612) 288-9696
IV-1-5	e-mail	apsi@fr.com
IV-1-5(a))	E-mail authorization The receiving Office, the International Searching Authority, the International Bureau and the International Preliminary Examining Authority are authorized to use this e-mail address, if the Office or Authority so wishes, to send notifications issued in respect of this international application:	exclusively in electronic form (no paper notifications will be sent)
IV-1-6	Agent's registration No.	67552
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	FINN III, J. Patrick(44109)
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	31 August 2017 (31.08.2017)
VI-1-2	Number	62/552,745
VI-1-3	Country or Member of WTO	US
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1

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VI-3	Incorporation by reference : where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6.	
VII-1	International Searching Authority Chosen	United States Patent and Trademark Office (USPTO) (ISA/US)
VIII	Declarations	Number of declarations
VIII-1	Declaration as to the identity of the inventor	—
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	1
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	1
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	—
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	—

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IX	Check list	Number of sheets	Electronic file(s) attached
IX-1	Request (including declaration sheets)	8	✓
IX-2	Description	13	-
IX-3	Claims	3	-
IX-4	Abstract	1	✓
IX-5	Drawings	4	-
IX-7	TOTAL	29	
	Accompanying Items	Paper document(s) attached	Electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-20	Figure of the drawings which should accompany the abstract		
IX-21	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	/Paul Western; Reg. No. 67,552/	
X-1-1	Name (LAST, First)	WESTERN, Paul	
X-1-3	Capacity (if such capacity is not obvious from reading the request)		

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10-1	Date of actual receipt of the purported international application	30-08-2018	30 AUG 2018
10-2	Drawings:		
10-2-1	Received		
10-2-2	Not received		
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application		
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)		
10-5	International Searching Authority	ISA/US	
10-6	Transmittal of search copy delayed until search fee is paid		

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11-1	Date of receipt of the record copy by the International Bureau	
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