505634324 08/22/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5681130

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALAN J. BANK	02/21/2019
RYAN M. GAGE	02/27/2019
KEVIN V. BURNS	02/21/2019

RECEIVING PARTY DATA

Name:	ALLINA HEALTH SYSTEM
Street Address:	2925 CHICAGO AVENUE
City:	MINNEAPOLIS
State/Country:	MINNESOTA
Postal Code:	55407

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16229160

CORRESPONDENCE DATA

Fax Number: (612)305-1228

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.

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Email: Iteborek@mrgiplaw.com

Correspondent Name: MUETING RAASCH & GEBHARDT P.A.

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Address Line 4: MINNEAPOLIS, MINNESOTA 55458-1336

ATTORNEY DOCKET NUMBER:	0110.000607US01	
NAME OF SUBMITTER:	MATTHEW C. GOEDEN	
SIGNATURE:	/Matthew C. Goeden/	
DATE SIGNED:	08/22/2019	

Total Attachments: 4

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PATENT 505634324 REEL: 050131 FRAME: 0083

ASSIGNMENT

Whereas We, Alan J. Bank, Ryan M. Gage, and Kevin V. Burns, with residences and citizenships as indicated below; have made an invention in

QRS ONSET AND OFFSET TIMES AND CYCLE SELECTION USING ANTERIOR AND POSTERIOR ELECTRODE SIGNALS

Filed: December 21, 2018

U.S. Patent Application No.: 16/229,160

and executed an application for Letters Patent of the United States of America based thereon and that claims priority to and/or the benefit of the following application(s):

ANTERIOR AND POSTERIOR ELECTRODE SIGNALS

Filed: December 22, 2017

Provisional Application No.: 62/609,924

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto ALLINA HEALTH SYSTEM ("Assignee"), a non-profit corporation of Minnesota, having its principal office at The Commons at Midtown Exchange. 2925 Chicago Avenue, Minneapolis, MN 55407, its successors and assigns, our entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Assignee of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Assignee, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

PATENT REEL: 050131 FRAME: 0084 Assignment to ALLINA HEALTH SYSTEM Application No. 16/229,160

KAYAHAVVWSUN Notary Public

Filing Date: December 21, 2018

For: RS ONSET AND OFFSET TIMES AND CYCLE SELECTION USING ANTERIOR AND POSTERIOR

ELECTRODE SIGNALS

And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent that may be granted upon any of said applications, to ALLINA HEALTH SYSTEM as the assignee of the entire right, title, and interest therein.

Further, we covenant and agree with the Assignee, and its successors and assigns, that we have not assigned, granted, mortgaged, licensed, or executed any other agreement affecting the rights and property herein conveyed to others and that we possess the full right to convey these rights and property as herein expressed.

If the filing date and application number are not identified in this Assignment at the time of execution, we authorize the Assignee and its agents, legal representatives, successors and assigns, to insert such information into this Assignment and/or true and correct copies thereof at a later date.

In witness whereof, we have hereunto signed our names on the days and years set forth below.

alen J. Hank	2/21/19
Name: Alan J. Bank	Date [*]
Residence: 4509 DUNBELLY LANE	
Edina, MN <u>53435</u>	8 *************************************
Citizenship: USA	KAYE A. HALVORSON §
	Notary Public-Minnesota
Edition of the state	\$ \(\) Say Commission Expires Jan 31, 2021 \(\) \$ \(
STATE OF <u>MWWEOTA</u>)	
) 88.	
COUNTY OF <u>EAVILLY</u>	
On this 21 day of 444444 20 19. 1	nafora wa zareanally appeared Alan I. Rank
to me known to be the person described in and who	sovered the foreasing instrument and
to me known to be the person describes in any wire	tharain eat forth
he/she executed the same for the uses and purposes	a morem per roum.

Application No. 16/229,160 Filing Date: December 21, 2018

For: RS ONSET AND OFFSET TIMES AND CYCLE SELECTION USING ANTERIOR AND POSTERIOR

ELECTRODE SIGNALS

Name:

Residence: 1002 22nd Ave NE #2 Minneapolis, MN 55418

Citizenship: United States

STATE OF Minnesota

COUNTY OF Henrepin

On this 27 day of FCb. 2019, before me personally appeared Ryan M. Gage to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

REEL: 050131 FRAME: 0086

Assignment to ALLINA HEALTH SYSTEM Application No. 16/229,160 Filing Date: December 21, 2018 For: RS ONSET AND OFFSET TIMES AND CYCLE SELECTION USING ANTERIOR AND POSTERIOR ELECTRODE SIGNALS Name: Residence: 2834 St. Anthony, MN Citizenship: KAYE A. HALVORSON Notary Public-Minnesota My Commission Explese Jan 31, 2021 <u>),</u> before me personally appeared <u>Kevin V.</u> Burns, to me known to be the person described in and who executed the foregoing instrument. and he/she executed the same for the uses and purposes therein set forth.

PATENT

RECORDED: 08/22/2019

REEL: 050131 FRAME: 0087