504548715 09/14/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICARDO JORGE JOTA COSTA	05/25/2017
BRUNO RODRIGUES DE ARAUJO	06/01/2017

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14945083

CORRESPONDENCE DATA

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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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NAME OF SUBMITTER:	CATHERINE M. UPDEGRAFF	
SIGNATURE:	/Catherine M. Updegraff/	
DATE SIGNED:	09/14/2017	

Total Attachments: 4

source=20170601 518-0-1US Assignment B. Araujo and R. Costa to UofT#page1.tif source=20170601 518-0-1US Assignment B. Araujo and R. Costa to UofT#page2.tif source=20170601 518-0-1US Assignment B. Araujo and R. Costa to UofT#page3.tif source=20170601 518-0-1US Assignment B. Araujo and R. Costa to UofT#page4.tif

PATENT 504548715 REEL: 043596 FRAME: 0546

<u>Assignment</u>

In re Application of: Bruno Rodrigues De Araujo et al.

Serial No.: 14/945,083 Filing Date: 11/18/2015

Title: SYSTEM AND METHOD FOR TIMING INPUT SENSING,

RENDERING, AND DISPLAY TO MINIMIZE LATENCY

WHEREAS, Ricardo Jorge Jota Costa and Bruno Rodrigues De Araujo, whose post office address(es) appear below (hereinafter referred to as ASSIGNOR), has/have invented certain new and useful improvements in SYSTEM AND METHOD FOR TIMING INPUT SENSING, RENDERING, AND DISPLAY TO MINIMIZE LATENCY (hereinafter referred to as the INVENTION) described in the above-captioned Application for United States Letters Patent; and

WHEREAS. The Governing Council of the University of Toronto, in Toronto, Canada, and its successors and assigns, (hereinafter referred to as ASSIGNEE), desires this Assignment of ASSIGNOR's entire right, title and interest in and to the INVENTION in the United States and throughout the world.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention and Patent Application throughout the United States of America, including any and all United States Letters Patent granted on any U.S. Patent Application, and any division, continuation, continuation-in-part and reissue of said U.S. Patent Application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the invention that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument.

Assignment

In re Application of: Bruno Rodrigues De Araujo et al.

Serial No.: 14/945,083 Filing Date: 11/18/2015

Title: SYSTEM AND METHOD FOR TIMING INPUT SENSING, RENDERING, AND DISPLAY TO MINIMIZE LATENCY

ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives. If no serial number is listed above for the captioned patent application, Assignor hereby authorizes ASSIGNEE to insert into this Assignment the Serial Number or other information which may be necessary to identify the patent application or patents to which this Assignment relates.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

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<u>Assignment</u>

in re Application of: Bruno Rodrigues De Araujo et al.

Serial No.: 14/945,083 Filing Date: 11/18/2015

Tiliə: System and Method for timing input sensing,

RENDERING, AND DISPLAY TO MINIMIZE LATENCY FULL NAME OF SOLE OR JOINT INVENTOR:

25.05.2012 Ricardo Jorge Jota Costa Date Citizenship: Portugal Residence: 589-8 Wellington St. West, Toronto, Ontario Canada M5V1G3 PO Address: Same as above

(Notarization preferred but not required)) 88: County of (before me, personally appeared personally known to me, or proved to me on the basis of satisfactory evidence to be the

person(s) whose name(s) la/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary Public

SEAL

<u>Assignment</u>

in re Application of: Bruno Rodrigues De Araujo et al.

Serial No.: 14/945,083 Filing Date: 11/18/2015

Tille: SYSTEM AND METHOD FOR TIMING INPUT SENSING, RENDERING, AND DISPLAY TO MINIMIZE LATENCY

FULL NAME OF SOLE OR JOINT INV	/ENTOR:	
la Arayò	01/06/2014	
Bruno Rodrigues De Araujo Citizenship: France Residence: 13 Roblocke Avenue, Toronto, Ontario Canada M6G 3R6 PO Address: Same es above	Date	
(Notarization preferred but not required)		
State of Oktario)	
County of Taxonta) ss: .)	
On <u>04/06/2017</u> before (date)	me, Pable Sallamora L. (name and title of officer)	
personally appeared	Bruno De Arava	
(name of Assignor) personally known to me, or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.		
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