PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3136738

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIE WU	09/24/2014
ROSALYN HOBSON HARGRAVES	08/29/2014
KAYVAN NAJARIAN	08/15/2014
ASHWIN BELLE	08/15/2014
KEVIN R. WARD	08/18/2014

RECEIVING PARTY DATA

Name:	VIRGINIA COMMONWEALTH UNIVERSITY
Street Address:	910 WEST FRANKLIN STREET
Internal Address:	P.O. BOX 842512
City:	RICHMOND
State/Country:	VIRGINIA
Postal Code:	23284

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	14070457		

CORRESPONDENCE DATA

Fax Number: (312)474-0448

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.

Phone: 3124746300

docket@marshallip.com Email: PAUL B. STEPHENS **Correspondent Name:**

Address Line 1: 233 SOUTH WACKER DRIVE

Address Line 2: **SUITE 6300**

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	30275/48103
NAME OF SUBMITTER:	PAUL B. STEPHENS
SIGNATURE:	/Paul B. Stephens/
DATE SIGNED:	12/08/2014

Total Attachments: 6

REEL: 034424 FRAME: 0248

PATENT

503090133



PATENT REEL: 034424 FRAME: 0249

ASSIGNMENT

Serial No:

14/070.457

Filed:

November 1, 2013

Title:

Segmentation and Fracture Detection in CT Images

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned hereby assigns to Virginia Commonweath University, P.O. Box 842512, 910 West Franklin Street, Richmond, Virginia 23284 and its successors and assigns ("Assignee") the entire right, title and interest in and to the inventions of such undersigned disclosed in the application listed above, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or extensions thereof, including without limitation, the right to bring suit and to claim and retain all damages and/or seek other remedies for the past, present and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or a joint inventor with another undersigned of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, titles and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, titles and interests herein assigned.

Upon the request of Assignee and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration or affidavit relating thereto that said Assignee may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignee the rights, titles and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, titles and interests will be held and enjoyed by said Assignee to the full end of the term for which said

1

patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

On behalf of Assignee,

Name

EXECUTIVE Director, VCU Innovation Gateway

Title

hereby confirms Assignee's acceptance of all rights, privileges, titles and interests conveyed by this assignment.

Date

2

WITNESS our hands this	24 day of	Sep.	2014.
State of California County of San Diego	Jie Wu		
On this Notary Public in and for the County and State afores personally or proved to me on the basis of satisfactor is/are subscribed to the foregoing instrument and ack his/her/their free and voluntary act and for the uses a	aid, appeared ry evidence to be the same snowledged that he/she/th	e person/persons whosey executed said instr	nown to me se name
WITNESS my hand and seal the same day My Commission Expires: $\partial / \partial 3 / \partial 1 $		lurk Notary Public	KENNETH C. SHOOK Commission # 2008391 Notary Public - California San Diego County My Comm. Expires Feb 23, 201
WITNESS our hands this	day of	·	
State of	Decaha Hah	gan Hawayayas	ng pagangang ang da kalabah da ka
On this day of Notary Public in and for the County and State afore personally or proved to me on the basis of satisfactor is/are subscribed to the foregoing instrument and achis/her/their free and voluntary act and for the uses WITNESS my hand and seal the same day	said, appeared ory evidence to be the sam knowledged that he/she/tl and purposes therein expr	ne person/persons who hey executed said inst ressed.	known to me ose name
My Commission Expires:		Notary Public	

3

WITNESS our hands th	us day	·
tate of		*
County of	Jie Wu	
	Sic Wu	
On this	day of	, before me, a
-	nty and State aforesaid, appeared	known to me
is/are subscribed to the foregoing	e basis of satisfactory evidence to be the instrument and acknowledged that he ct and for the uses and purposes therein	/sne/tney executed said instrument as
WITNESS my hand an	d seal the same day and year last above	e given.
		,
My Commission Expires:		
my commission Experien		Notary Public
State of Virginia State of Richmor	his day	Hobson Hargranes Victoria
Kosalyn Hober	unty and State aforesaid, appeared Hay Gaves he basis of satisfactory evidence to be t	known to me known to me che same person/persons whose name e/she/they executed said instrument as
his/her/their free and voluntary	act and for the uses and purposes there	in expressed.
WITNESS my hand a	nd seal the same day and year last abov	ve given.
My Commission Expires:	August 31,2017	My Lole Notary Public
,		
	GINNI LYN GOOLE NOTARY PUBLIC REGISTRATION # 755670	
	MY COMMISSION EXPIRES AUGUST 31, 2017	NIA S

PATENT REEL: 034424 FRAME: 0253

WITNESS our hands this	15 day of august, 2014.
State of	V
County of	Kayvan Najarian
Witness On this 15 day of Notary Public in and for the County and State aforest	du quat, 2014, before me, a aid, appgared
personally or proved to me on the basis of satisfactor	y evidence to be the same person/persons whose name nowledged that he/she/they executed said instrument as
WITNESS my hand and seal the same day a	and year last above given.
My Commission Expires: Meg We WITNESS our hands this	Lideman Meg Weideman SNOTARY Public Witness 15 day of August, 2014.
	May of A
State of County of	Mund
	known to me y evidence to be the same person/persons whose name nowledged that he/she/they executed said instrument as nd purposes therein expressed.
My Commission Expires:	Weideman Meg Weideman Norgh-Public Witness

4

WITNESS our hand	s this	18	day of	augu	<u>, e</u>	2014.
State of County of		Kevin R. Ward				
Notary Public in and for the Copersonally or proved to me or is/are subscribed to the foregon his/her/their free and voluntar	County and State afore the basis of satisfact bing instrument and a	ory evidence to cknowledged th	be the sar at he/she/	they executed	rsons whose	wn to me
	and seal the same da					
My Commission Expires:	Meg	We; den	1 <u>an</u>	My	Weid ry Public	lman Witness

REEL: 034424 FRAME: 0255