503135525 01/14/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3182135

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANANT MADABHUSHI	01/05/2015
ANGEL CRUZ-ROA	01/05/2015
FABIO GONZALEZ	01/09/2015
HAIBO WANG	01/05/2015

RECEIVING PARTY DATA

Name:	CASE WESTERN RESERVE UNIVERSITY	
Street Address:	10900 EUCLID AVENUE	
City:	CLEVELAND	
State/Country:	OHIO	
Postal Code:	44106	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14562883

CORRESPONDENCE DATA

Fax Number:

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: 2163083245

Email: jtkalnay@gmail.com

Correspondent Name: LAW OFFICE OF JT KALNAY, LLC Address Line 1: 701 WEST LAKESIDE AVE, #808

Address Line 4: CLEVELAND, OHIO 44113

ATTORNEY DOCKET NUMBER:	2014-2572
NAME OF SUBMITTER:	JOHN T KALNAY
SIGNATURE:	/John Kalnay/
DATE SIGNED:	01/14/2015

Total Attachments: 8

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PATENT 503135525 REEL: 034706 FRAME: 0154

PATENT REEL: 034706 FRAME: 0155

I, <u>Anant Madabhushi</u> ("A	SSIGNOR"), am the origin	al inventor or an original joint
inventor of subject matter ("INVENTION") disclosed	and/or claimed in a patent
application entitled "Automa	<u>itic Detection Of Mito</u>	sis Using Handcrafted and
Convolutional Neural Network I	eatures" ("APPLICATION")	, which:
\square will be filed.	ASSIGNOR hereby auth	orizes, and requests,
ASSIGNEE'S legal	representatives, of the L	aw Office of JT Kalnay,
LLC (ASSIGNEE'S	LEGAL REPRESENTATIVE	S), to insert here in
parentheses (filed	d on	and given Application
No	by	the following
Office) this APPLICATION's
	iling date, and Office, whe	
🛭 was filed on <u>Dece</u>	mber 8, 2014 and was giv	en Application No
14/562,883 by ti	ne <u>"United States Patent &</u>	Trademark Office ";
•		
Case Western Reserve Upon behalf of itself and its suc	•	enue, Cleveland, Ohio, 44106, SIGNEE"), is entitled to, and is
desirous of acquiring, the e	_	
INVENTION and the APPLICAT	TON (and all other appl	ications and patents derived
therefrom, such as continuing		
and all foreign countries ("APPL	ICATION DERIVATIVES"));	
ASSIGNOR hereby	authorizes, and requ	uests, ASSIGNEE'S LEGAL
REPRESENTATIVES to insert t	he Application No., filin	g date, and Office into the
following table for any APPLICA	TION DERIVATIVES after the	ney are known;
Application No.	Filing Date	Office

For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to

INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest in the

Sun Madoldunde	1/5/2015
Inventor's Signature	Date
Anant Madabhushi	
Printed Name in English	Printed Name in Native Language (if other than English)

l, <u>Ange</u>	<u>el Cruz-Roa</u> ("ASS	SIGNOR"), am the or	iginal inventor	or an original joint
inventor of	subject matter ("INVENTION") disclo	sed and/or cl	aimed in a patent
application e	entitled " <u>Automa</u>	ntic Detection Of	Mitosis Using	Handcrafted and
Convolutional	Neural Network I	Features" ("APPLICAT	ION"), which:	
	will be filed.	ASSIGNOR hereby	authorizes, a	nd requests,
	ASSIGNEE'S legal	representatives, of	the Law Office	of JT Kalnay,
i	LLC (ASSIGNEE'S	LEGAL REPRESENT	ATIVES), to in	sert here in
!	parentheses (file	d on	and give	n Application
	No	by		following
(Office) this A	PPLICATION's
		iling date, and Office		
\boxtimes ,	was filed on <u>Dece</u>	mber 8, 2014 and wa	as given Applica	ition No
	14/562,883 by the	ne " <u>United States Pat</u>	ent & Trademar	k Office";
Case W	estern Reserve U	niversity, 10900 Eucl	id Avenue, Clev	eland, Ohio, 44106,
on behalf of	itself and its suc	cessors and assigns	("ASSIGNEE"), i	s entitled to, and is
desirous of	acquiring, the e	ntire and exclusive	rights, title a	and interest in the
INVENTION a	nd the APPLICAT	TION (and all other	applications a	nd patents derived
therefrom, su	ch as continuing	applications, in and	for the United S	itates, its territories,
and all foreign	າ countries ("APPL	ICATION DERIVATIVE	(S"));	
ASSIGN	OR hereby	authorizes, and	requests, A	ASSIGNEE'S LEGAL
REPRESENTAT	IVES to insert t	he Application No.,	filing date, a	and Office into the
following tabl	e for any APPLICA	TION DERIVATIVES a	fter they are kno	own;
Application No	0.	Filing Date	Office	
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For good and valuable consideration, the receipt of which is hereby acknowledged by the ASSIGNOR, the ASSIGNOR hereby sells, assigns and transfers to the ASSIGNEE, ASSIGNOR's entire and exclusive rights, title and interest in the INVENTION and the APPLICATION (and APPLICATION DERIVATIVES);

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Suff To	
	01/05/2015
Inventor's Signature	Date
Angel Cruz–Roa	Angel Alfonso Cruz Roa
Printed Name in English	Printed Name in Native Language
	(if other than English)

	PATEN	LASSIGNMENT	Docker No.: 20	114-2372
inventor of application	subject matter entitled "Autor	("INVENTION") o	disclosed and/or	or or an original joint claimed in a patent ng Handcrafted and
	ASSIGNEE'S lega LLC (ASSIGNEE parentheses (fil No. Office	al representatives 'S LEGAL REPRE led on	by the	e of JT Kalnay, insert here in ven Application following APPLICATION's
\boxtimes			nd was given Appli s Patent & Tradem	
desirous of INVENTION therefrom, s and all forei	acquiring, the and the APPLICA and the APPLICA cuch as continuing gn countries ("AP	entire and exclosions (and all of applications, in PLICATION DERIVATION DERIVATION (authorizes, and authorizes, and	usive rights, title other applications and for the United ATIVES"));	is entitled to, and is and interest in the and patents derived I States, its territories, ASSIGNEE'S LEGAL and Office into the
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Page 1 of 2

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Inventor's Signature

Fabio Gonzalez Printed Name in English

Printed Name in Native Language (if other than English)

DILIGENCIA DE AUTENTICACON MAGDA TURBAY BERNAL NOTARIA 20 DE BOGOTA D.C. La suscrita Notaria Vainte del Circulo de Sogota, CERMEICA que la firma que autoriza el presente documento corresponde a GONZALEZ OSORIO FABIO AUGUSTO identificado non C.C. 93337474 y fide pidesta ise su puño y letra



Page 2 of 2

I, <u>Haibo Wang</u> ("ASSIGNO inventor of subject matter ("IN application entitled " <u>Automatic</u>	VENTION") disclosed a	
Convolutional Neural Network Fea		
ASSIGNEE'S legal rel LLC (ASSIGNEE'S L parentheses (filed o No. Office	presentatives, of the La EGAL REPRESENTATIVE onby	the following) this APPLICATION's
\boxtimes was filed on <u>December 14/562,883</u> by the	oer 8, 2014 and was give	
Case Western Reserve Univon behalf of itself and its success desirous of acquiring, the enti INVENTION and the APPLICATIO therefrom, such as continuing apand all foreign countries ("APPLICATION")	ssors and assigns ("ASS re and exclusive right DN (and all other appli plications, in and for th	ts, title and interest in the ications and patents derived
ASSIGNOR hereby aut REPRESENTATIVES to insert the following table for any APPLICATIO	Application No., filing	_
	iling Date	Office Office

Page 1 of 2

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2/Rxx-	01/05/2015
Inventor's Signature	Date
Haibo Wang	王海波
Printed Name in English	Printed Name in Native Language (if other than English)