505285334 01/18/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANANT MADABHUSHI	01/17/2019
MAHDI OROOJI	01/17/2019
NIHA BEIG	01/17/2019
VAMSIDHAR VELCHETI	01/17/2019

RECEIVING PARTY DATA

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Internal Address:	10900 EUCLID AVENUE	
City:	CLEVELAND	
State/Country:	OHIO	
Postal Code:	44106	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16251214

CORRESPONDENCE DATA

Fax Number: (216)502-0601

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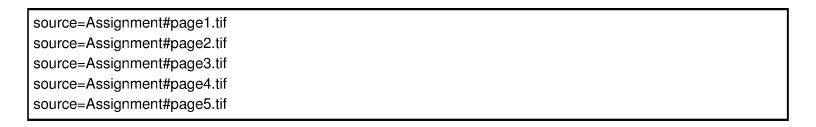
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ATTORNEY DOCKET NUMBER:	CWRUP129WOUS
NAME OF SUBMITTER:	THOMAS G. ESCHWEILER
SIGNATURE:	/Thomas G. Eschweiler/
DATE SIGNED: 01/18/2019	

Total Attachments: 5

PATENT REEL: 048055 FRAME: 0551



PATENT REEL: 048055 FRAME: 0552

PATENT ASSIGNMENT Docket No.: CWRUP129WOUS

We, Anant Madabhushi, Mahdi Orooji, Niha Beig, & Vamsidhar Velcheti ("ASSIGNORS"), are the original inventors or are original joint inventors of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "METHODS AND APPARATUS FOR PREDICTING BENEFIT FROM IMMUNOTHERAPY USING TUMORAL AND PERITUMORAL RADIOMIC FEATURES" ("APPLICATION"), which:

\boxtimes	will be filed. ASSI	GNOR hereby authorizes, a	and requests.
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	Application No., fi	ling date, and Office, when	
	was filed on	and was given A	Application No
		by the following Office	
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behalf of its desirous of a INVENTION a therefrom, s territories, a ASSIGNOR he insert the ApAPPLICATION	elf and its success acquiring, the ention and the APPLICATI such as continuing and all foreign coupereby authorizes, a polication No., filing N DERIVATIVES afte	ors and assigns ("ASSIGN re and exclusive rights, to ON (and all other applica applications, in and for the ntries ("APPLICATION DEFIND requests, ASSIGNEE'S Logical date, and Office into the they are known;	tions and patents derived the United States, its RIVATIVES")); EGAL REPRESENTATIVES to following table for any
Application N	No.	Filing Date	Office

Page 1 of 1

PATENT ASSIGNMENT Docket No.: CWRUP129WOUS

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For good and value	uable consideration	n the receipt of w	which is horoby ackno	wladaad by

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);

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).

	1/17/2019
nventor's Signature	Date
Anant Madabhushi	
rinted Name in English	Printed Name in Native Language (if other than English)

PATENT ASSIGNMENT Docket No.: CWRUP129WOUS

	1/17/2019	
Inventor's Signature	Date	_
AND weigh		
Mahdi Orooji		
Printed Name in English	Printed Name in Native Language (if other than English)	

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Making.	1/17/2019
Inventor's Signature	Date
Niha Beig	
Printed Name in English	Printed Name in Native Language (if other than English)

Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date
Mahdi Orooji	
Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date
Niha Beig	
Printed Name in English	Printed Name in Native Language (if other than English)
Inventor's Signature	Date 1/17/2019
Printed Name in English	Printed Name in Native Language (if other than English)