PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Taehyun Park	12/20/2012
Daniel Sang-Won Park	10/25/2012
Sudheer D. Rani	01/31/2013
Michael C Murphy	11/20/2012
Dimitris E Nikitopoulos	12/18/2012

RECEIVING PARTY DATA

Name:	Board of Supervisors of Louisiana State University and Agricultural and Mechanical College
Street Address:	206 Louisiana Emerging Technology Center
City:	Baton Rouge
State/Country:	LOUISIANA
Postal Code:	70803

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13656295

CORRESPONDENCE DATA

Fax Number: 5045660210

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: jason.mueller@arlaw.com

Correspondent Name: Jason P. Mueller

Address Line 1: 701 Poydras Street, Suite 4500 Address Line 2: Adams and Reese, LLP

Address Line 4: New Orleans, LOUISIANA 70139

ATTORNEY DOCKET NUMBER:	3185-58
NAME OF SUBMITTER:	Jason P. Mueller

REEL: 029811 FRAME: 0188

PATENT

Total Attachments: 10
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ORIGINAL ASSIGNMENT

For valuable consideration, we

(Type name of inventor)

Taehyun Park Residence Address: 109 Hari-2ri, Mungyeog-eup (Type name of inventor) Mungueong-si, gyeongbok, 745-804 Citizenship: 9443 Tasmania Avenue Daniel Sang-Won Park Residence Address: (Type name of inventor) Baton Rouge, Louisiana 70810 Citizenship: US 1101 Raritan Dr. Sudheer D. Rani Residence Address: (Type name of inventor) St. Louis, MO 63119 Citizenship: Michael C. Murphy Residence Address: 621 Highland Knoll Court (Type name of inventor) Baton Rouge, Louisiana 70810 Citizenship; US Dimitris E. Nikitopoulos of Residence Address: 446 Kenwood Avenue

Baton Rouge, Louisiana 70806

GR

the below signed inventors of record, hereby assign to

Board of Supervisors of Louisiana State University and Agricultural and Mechanical College a university having an address at

Citizenship:

206 Louisiana Emerging Technology Center Baton Rouge, LA 70803

U.S.A

and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are the subject of an application for United States Patent signed by me entitled

"METHODS OF AND DEVICES FOR CAPTURING CIRCULATING TUMOR CELLS"
Application Number: 13/656,295 Date of Filing: October 19, 2012

This assignment includes said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, including U.S. Provisional Patent Application No. 61/552,522 and U.S. Patent Application No. 13/656,295 and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. I hereby authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventor's certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assignees, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

	Taehyun Park		
Signature of Inventor	Typed Name	Date of Signature	Place of Signature City, Country
Park, known to me to be the	undersigned authority, on the da person whose name is subscribe ent of his own free will and for t	ed to the foregoing Assig	ed, personally appeared <u>Taehyun</u> nment, and acknowledged to me ration therein expressed.
Notary Public [SEAL]			
		Notary Public Signatu	re
		Printed Name of Nota	ry Public
Occur Paul Signature of Inventor	Daniel Sang-Won Park Typed Name	/0-15-12 Date of Signature	EAST BATON Rouge, Place of Signature City, Country
Sang-Won Park, known to r	ne to be the person whose r	same is subscribed to t	fied, personally appeared <u>Daniel</u> the foregoing Assignment, and the purposes and consideration
Notary Public [SEAL]		Christi	i Chrilian
	CHRISTIE C. RICHARDSON Notary Public State of Louisiana Notary ID Number 77480 LA. Bgr 28738	Notary Public Signatu Printed Name of Nota	
Signature of Inventor	Sudheer D. Rani Typed Name	Date of Signature	Place of Signature City, Country
 Rani, known to me to be the 	indersigned authority, on the da ne person whose name is subscr ament of his own free will and f	ibed to the foregoing As	ed, personally appeared <u>Sudheer</u> signment, and acknowledged to ideration therein expressed.
Notary Public [SEAL]		Notary Public Signatu	re
		Printed Name of Notar	ry Public
Signature of Inventor	Michael C. Murphy Typed Name	11/20/12	E. Baton Kunge &

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared <u>Michael C. Murphy</u>, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEAL]

Notary Public Signature

CHRISTIE C. RICHARDSON LA. Bar 28738

Signature of Inventor

Dimitris E. Nikitopoulos Typed Name

Place of Signature City, Country

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Dimitris E. Nikitopoulos, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public

[SEAL]

Notary Public Signature

CHRISTIE C. RICHARDSON
of Notal Verallicullis
of Notal Verallicullis
Notary ID Number 77480 LA. Bar 28738

ORIGINAL ASSIGNMENT

For valuable consideration, we

Taehyun Park __ of (Type name of inventor)

Residence Address:

109 Hari-2ri, Mungyeog-eup

Mungueong-si, gueongbok, 745-804

Citizenship:

Daniel Sang-Won Park of (Type name of inventor)

Residence Address:

9443 Tasmania Avenue

Baton Rouge, Louisiana 70810

Citizenship:

US

Sudheer D. Rani of (Type name of inventor)

Residence Address:

1101 Raritan Dr. St. Louis, MO 63119

Citizenship:

Michael C. Murphy (Type name of inventor)

Residence Address:

621 Highland Knoll Court Baton Rouge, Louisiana 70810

Citizenship:

Dimitris E. Nikitopoulos of

(Type name of inventor)

Residence Address:

446 Kenwood Avenue

Baton Rouge, Louisiana 70806

Citizenship:

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"METHODS OF AND DEVICES FOR CAPTURING CIRCULATING TUMOR CELLS" Application Number: 13/656,295 Date of Filing: October 19, 2012

This assignment includes said application, any and all United States and foreign patents, utility models, design registrations, inventor's certificates and other similar rights granted for any of said inventions or improvements, including U.S. Provisional Patent Application No. 61/552,522 and U.S. Patent Application No. 13/656,295 and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. I hereby authorize the Assignee to apply in all countries in my name, or in its own name, for patents, utility models, design registrations and like rights of exclusion and for inventor's certificates for said inventions and improvements; and I agree for myself and my heirs, legal representatives and assignees, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereb	y set my hand, date of sign	ature and place of signatur	re as indicated below.
Signature of Inventor	Tachyun Park Typed Name	Date of Signature	Place of Signature City, Country
BEFORE ME, the unders <u>Park</u> , known to me to be the persor that he executed the instrument of	whose name is subscribed	to the foregoing Assignm	
Notary Public [SEAL]		Notary Public Signature	
		Printed Name of Notary	Public
Signature of Inventor	<u>Daniel Sang-Won Park</u> Typed Name	Date of Signature	Place of Signature City, Country
BEFORE ME, the under Sang-Won Park, known to me to acknowledged to me that he executherein expressed.	be the person whose na	me is subscribed to the	
Notary Public [SEAL]		Notary Public Signature	
		Printed Name of Notary	Public
Signature of Inventor	Sudheer D. Rani Typed Name	01 31 2013 Date of Signature	BRENTWOOD, MISSOUR I. Place of Signature City, Country
BEFORE ME, the underst <u>D. Rani</u> , known to me to be the permethat he executed the instrument	rson whose name is subscri	bed to the foregoing Assig	
Notary MELINDA S. & MELINDA S. & Notary Public, Notary Public, State of Miles Commission # My Commission Expire	PASCUA lotary Seat stary Seat ounty 11050936 es May 20, 2015	Notary Public Signature Melinda S Printed Name of Notary	. Pascua
Signature of Inventor	Michael C. Murphy Typed Name	Date of Signature	Place of Signature City, Country

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared <u>Michael C. Murphy</u>, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

Notary Public [SEA	L]	Notary Public Signati	ште	
		Printed Name of Notary Public		
Signature of Inventor	<u>Dimitris E. Nikitopoulos</u> Typed Name	Date of Signature	Place of Signature City, Country	
E. Nikitopoulos, known	the undersigned authority, on the day to me to be the person whose na nat he executed the instrument of his	ame is subscribed to	the foregoing Assignment, a	
Notary Public [SEA	L]	Notary Public Signat	ure	
		Printed Name of Not	arry Public	

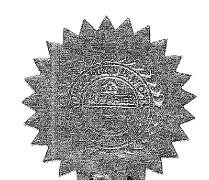


공증인 지명철 사무소

[제41호서식]

전 화 : 244-0100 FAX : 244-5333

Registered No. 2012 - 2498



NOTARIAL CERTIFICATE

MYUNG-CHUL JI NOTARY PUBLIC OFFICE

#4-41, Jungang-dong 3ga, Masanhappo-gu, Changwon-si, Gyeongsangnam-do, Korea



ORIGINAL ASSIGNMENT

For valuable consideration, we		
Taehyun Park of (Type name of inventor)	Residence Address:	Residence Address: 109 Hari-2ri, Mungyeog-eup, Mungyeong-si, gyeongbok, 745-804
	Citizenship:	Republic of Korea
Daniel Sang-Won Park of	Residence Address:	
(Type name of inventor)	Citizenship:	US
Sudheer D. Rani of (Type name of inventor)	Residence Address:	ere de la companya d La companya de la co
(Type mame of inventor)	Citizenship:	N
Michael C. Murphy of (Type name of inventor)	Residence Address:	621 Highland Knoll Court Baton Rouge, Louisiana 70810
(1) pe mante of mitomos)	Citizenship:	US
<u>Dimitris E. Nikitopoulos</u> of (Type name of inventor)	Residence Address:	446 Kenwood Avenue Baton Rouge, Louisiana 70806
(Type manie ox myomor)	Citizenship:	GR

the below signed inventors of record, hereby assign to

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a university having an address at

206 Louisianz Emerging Technology Center Baton Rouge, LA 70803

U.S.A

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Application Number: 13/656,295 Date of Filing: October 19, 2012

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Signature of Inventor Taeinyun Park Typed Name Date of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared I Park known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he executed the instrument of his own free will and for the purposes and consideration threin expressed. Daniel Sang-Won Park Typed Name Date of Signature Place of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Sang-Won Park Typed Name Date of Signature City Country BEFORE ME, the undersigned authority on the day and year above specified, personally appeared schooledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed. Notary Public [SEAL] Notary Public Signature Printed Name of Notary Public Signature of Inventor Typed Name Date of Signature Place of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Supplied to the foregoing Assignment, and acknowledged the executed the instrument of his own free will and for the purposes and consideration therein expressed Notary Public Signature Place of Signature Printed Name of Notary Public Signature of Inventor Michael C. Murphy Typed Name Date of Signature Place of Signature City, Country Place of Signature Place of Signature Place of Signature City, Country City, Country	IN WITHESS WHEREOF, I her	eby set my hand, date of si	gnature and place of signa	ature as indicated below.
Pack, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he executed the instrument of his own free will and for the purposes and consideration therein expressed. Notary Public Signature	Signature of Inventor		Dec /20/20/2 Date of Signature	Changelon, Ckonea Place of Signature City, Country
Typed Name Date of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared sacknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed. Notary Public [SEAL] Notary Public Signature Printed Name of Notary Public Signature of Inventor Sudheer D. Rani Typed Name Date of Signature Place of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Sunce that he executed the instrument of his own free will and for the purposes and consideration therein expressed Notary Public Signature of Inventor Michael C. Murphy Typed Name Date of Signature Place of Signature Place of Signature Printed Name of Notary Public	Park, known to me to be the pers	on whose name is subscribe	ed to the foregoing Assign the purposes and consider Motery Public Signatu MYUN	nment, and acknowledged to me ration therein exaressed record the control of the
Sang-Won Park, known to me to be the person whose name is subscribed to the foregoing Assignmen acknowledged to me that he executed the instrument of his own free will and for the purposes and conside therein expressed. Notary Public [SEAL] Notary Public Signature			Date of Signature	
Notary Public Signature Printed Name of Notary Public Signature of Inventor Sudheer D. Rani Typed Name Date of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Suman, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledge me that he executed the instrument of his own free will and for the purposes and consideration therein expressed Notary Public [SEAL] Notary Public Signature Printed Name of Notary Public Michael C. Murphy Typed Name Date of Signature Place of Signature	Sang-Won Park, known to me tacknowledged to me that he exe	to be the person whose r	name is subscribed to the	he foregoing Assignment and
Signature of Inventor Signature of Inventor Typed Name Date of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Subscribed to the foregoing Assignment, and acknowledge that he executed the instrument of his own free will and for the purposes and consideration therein expressed Notary Public [SEAL] Notary Public Signature Printed Name of Notary Public Michael C. Murphy Typed Name Date of Signature Place of Signature	Notary Public [SEAL]		Notary Public Signatur	ε
Signature of Inventor Typed Name Date of Signature Place of Signature City, Country BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Su D. Rani, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledge me that he executed the instrument of his own free will and for the purposes and consideration therein expressed Notary Public [SEAL] Notary Public Signature Printed Name of Notary Public Michael C. Murphy Typed Name Date of Signature Place of Signature			Printed Name of Notar	y Public
BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Subscribed to the foregoing Assignment, and acknowledge me that he executed the instrument of his own free will and for the purposes and consideration therein expressed Notary Public [SEAL] Notary Public Signature	Signature of Inventor		Date of Signature	
Notary Public Signature Notary Public Signature	No water with an end to be the be	TSON Whose name is subser	thed to the foregoing Are	d, personally appeared Sudheer
Michael C. Murphy Signature of Inventor Typed Name Date of Signature Place of Signature				
Signature of Inventor Typed Name Date of Signature Place of Signature			Printed Name of Notary	Public
	Signature of Inventor		Date of Signature	

BEFORE ME, the undersigned authority, on the day and year above specified, personally appeared Michael C. Murphy, known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged to me that he executed the instrument of his own free will and for the purposes and consideration therein expressed.

[제42호서식]

전 화 : 244-0100 FAX : 244-5333

등부 2012 년 제 2498 호

Registered No. 2012 - 2498

인 증

위 서 명 확 인 서 에 기재된 박 태 현 는 본 공증인의 면전에서 위 사서 증서에 자기가 서명 한 것임을 자인하였다.

2012 년 12 월 20 일이 사무소에서 위 인증한다.

공증인 지명철 사무소 소속 창원지방검찰청 창원시 마산합포구 중앙**돟**3가

4의 41번지 공증인

Notarial Certificate

PARK, TEAHYUN
personally appeared before
me and admitted his(her)
subscription to the attached
CONFIRMATION OF
AUTHORIZED SIGNATURE

This is hereby attested on this 20 day of Dec. 2012 at this office

Myung-Chul Ji Notary Public Office Belong to Changwon District Prosecutor's Office #4-41, Jungang-dong 3ga, Masanhappo-gu, Changwon-si, Gyeongsangnam-do, Korea

MY NG-CHUL JI

This office has been authorized by the Minister of Justice, the Republic of Korea, to act as Notary Public since

July. 9. 2001. under

Law No. 80

PATENT REEL: 029811 FRAME: 0199

RECORDED: 02/14/2013