502069413 09/20/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hun-joo LEE	08/28/2012
Jeong-gun LEE	08/28/2012
Yeon-jeong KIM	08/28/2012
Jong-myeon PARK	08/28/2012
Mi-jeong SONG	08/28/2012
Jin-mi OH	08/28/2012
Jeong-woo CHOI	08/28/2012

RECEIVING PARTY DATA

Name:	Samsung Electronics Co., Ltd.	
Street Address:	416 Maetan-dong, Yeongtong-gu	
City:	Suwon-si, Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	

Name:	Industry-University Cooperation Foundation Sogang University	
Street Address:	1Sinsu-dong, Mapo-gu	
City:	Seoul	
State/Country:	KOREA, REPUBLIC OF	
Postal Code:	121-742	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13605787

CORRESPONDENCE DATA

Fax Number: 3126165700

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PATENT REEL: 028997 FRAME: 0341 \$40.00 13605787

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ATTORNEY DOCKET NUMBER: 710048

NAME OF SUBMITTER: John L. Gase

Total Attachments: 5

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PATENT REEL: 028997 FRAME: 0342

ASSIGNMENT

WHEREAS, I/WE

Hun-joo LEE, Jeong-gun LEE, Yeon-jeong KIM, Jong-myeon PARK, Mi-jeong SONG, Jin-mi OH all c/o Samsung Advanced Institute of Technology, San 14-1 Nongseo-dong, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea

hereinafter referred to as Assignor, have invented a certain invention entitled:

DEVICE FOR DETECTING AND SEPARATING TARGET MOLECULES AND METHOD FOR DETECTING AND SEPARATING TARGET MOLECULES BY USING THE SAME

for which invention an application (provisional or non-provisional) for a U.S. patent was filed on $\underline{\text{September 6, 2012}}$, under U.S. Application No. $\underline{\text{13/605,787}}$, and

WHEREAS, SAMSUNG ELECTRONICS CO., LTD. of 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in, to, and under the invention described in the patent application, including the entire priority right derived from the application,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Assignor assigns and transfers to Assignee and Assignee's legal representatives, successors, and assigns the entire right, title, and interest in, to, and under the invention, the referenced patent application, and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, national and regional phase applications, petty patent applications, and utility model applications) that may be filed in the U.S. and/or any country foreign to the U.S. on the invention, and the patents that may issue thereon,

Assignor conveys to the Assignee the right to make applications in Assignee's own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim priority to the referenced patent application and other such applications that may be filed in the U.S. or any country foreign to the U.S. on the invention under the Patent Cooperation Treaty, the Paris Convention, and any other international arrangements,

Assignor will not execute any writing or do any act conflicting with the terms of this assignment,

Assignor will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to pursue the patent applications identified herein, including, but not limited to, rendering all necessary assistance in making applications for and obtaining patents that may issue thereon in the U.S. and any

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countries foreign to the U.S. on the invention, and in enforcing any rights accruing as a result of such applications or patents, by, for example, executing statements and other affidavits,

Assignor and Assignee agree the terms of this assignment shall bind, and inure to the benefit of, the legal representatives, successors, and assigns of all parties hereto,

Assignor authorizes Assignee to insert in this assignment the number and filing date of the application if the number and filing date of the application are not recited herein at the time of execution of this assignment by any or all of the parties hereto,

Assignor and Assignee agree that U.S. law governs this assignment, and

Assignee acknowledges and accepts this assignment.

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

Date	August 28, 2012	
		Assignor: Hun-joo LEE
Date	August 28, 2012	
		Assignor: Jeong-gun LEE
Date	August 28, 2012	
		Assignor: Yeon-jeong KIM
Date	August 28, 2012	19/1
		Assignor: Jong-myeon PARK

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In re Appln. of LEE et al.	Clie	Attorney Docket No. 710048 at Reference No. SI-40018-US / RG2011085011US0
Date August 28, 2	2012	gnor: Mi-jeong SONG
Date August 28,		luz-
	Assig	mor: Jin-mi OH

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ASSIGNMENT

WHEREAS, I

Jeong-woo CHOI of 103-603 Yongsan Citypark, 63-389 Hangang 3-ga, Yongsan-gu, Seoul, KR,

hereinafter referred to as Assignor, have invented a certain invention entitled:

DEVICE FOR DETECTING AND SEPARATING TARGET MOLECULES AND METHOD FOR DETECTING AND SEPARATING TARGET MOLECULES BY USING THE SAME

for which invention an application (provisional or non-provisional) for a U.S. patent was filed on September 6, 2012, under U.S. Application No. __13/605,787___, and

WHEREAS, Industry-University Cooperation Foundation Sogang University of 1Sinsu-dong, Mapo-gu, Seoul, 121-742 KR, hereinafter referred to as Assignee, is desirous of acquiring the entire right, title, and interest in, to, and under the invention described in the patent application, including the entire priority right derived from the application,

Now, Therefore, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Assignor assigns and transfers to Assignee and Assignee's legal representatives, successors, and assigns the entire right, title, and interest in, to, and under the invention, the referenced patent application, and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, national and regional phase applications, petty patent applications, and utility model applications) that may be filed in the U.S. and/or any country foreign to the U.S. on the invention, and the patents that may issue thereon,

Assignor conveys to the Assignee the right to make applications in Assignee's own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim priority to the referenced patent application and other such applications that may be filed in the U.S. or any country foreign to the U.S. on the invention under the Patent Cooperation Treaty, the Paris Convention, and any other international arrangements,

Assignor will not execute any writing or do any act conflicting with the terms of this assignment,

Assignor will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to pursue the patent applications identified herein, including, but not limited to, rendering all necessary assistance in making applications for and obtaining patents that may issue thereon in the U.S. and any countries foreign to the U.S. on the invention, and in enforcing any rights accruing as a result of such applications or patents, by, for example, executing statements and other affidavits,

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Assignor and Assignee agree the terms of this assignment shall bind, and inure to the benefit of, the legal representatives, successors, and assigns of all parties hereto,

Assignor authorizes Assignee to insert in this assignment the number and filing date of the application if the number and filing date of the application are not recited herein at the time of execution of this assignment by any or all of the parties hereto,

Assignor and Assignee agree that U.S. law governs this assignment, and

Assignee acknowledges and accepts this assignment.

IN WITNESS WHEREOF, Assignor has hereunder set his/her hand on the date shown below.

Date	August 28, 2012	Teag-was (ho)
		Assignor: Jeong-woo CHOI

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RECORDED: 09/20/2012

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