

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4411519

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Ralph Weissleder	01/11/2013
Hakho Lee	01/11/2013
Tae-Jong Yoon	04/08/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE GENERAL HOSPITAL CORPORATION
<b>Street Address:</b>	55 FRUIT STREET
<b>City:</b>	BOSTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02114
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15488122
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<i>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.</i>	
<b>Phone:</b>	(212) 765-5070
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	JOSEPH VALENTINO
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	00786-0748003
<b>NAME OF SUBMITTER:</b>	CHRISTINE M. GRACE
<b>SIGNATURE:</b>	/Christine M. Grace/
<b>DATE SIGNED:</b>	05/12/2017
<b>Total Attachments: 6</b>	
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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Ralph Weissleder, of Peabody, Massachusetts; Hakho Lee, of Acton, Massachusetts; and Tae-Jong Yoon, of Yongin, Kyeonggi-do, South Korea, hereby assign to: THE GENERAL HOSPITAL CORPORATION, a corporation of Massachusetts, having a place of business 55 Fruit Street, Boston, Massachusetts 02114; 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 and described and/or claimed in a utility application for United States Patent, entitled "Magnetic Nanoparticles," filed on November 21, 2012, and assigned U.S. Serial Number 13/699,378; this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, 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; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements; and

we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

we hereby covenant that we have the full right to convey the entire right, title, and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

Date: January 11 2013



RALPH WEISSLEDER

Witness1:

Signature: Diana Moschetti

Date: January 11 2013

Printed Name: Diana Moschetti

Date: January 11 2013

Witness2:

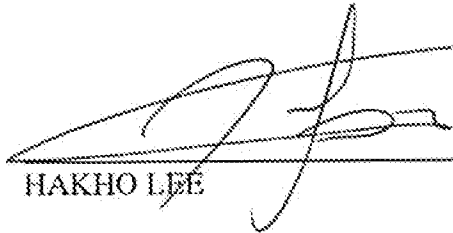
Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

Date: January 11 2013



HAKHO LEE

Witness1:

Signature: Diana Moschetti

Date: January 11 2013

Printed Name: Diana Moschetti

Date: January 11 2013

Witness2:

Signature: Serena Sullivan

Date: January 11, 2013

Printed Name: Serena Sullivan

Date: January 11, 2013

Date: \_\_\_\_\_

\_\_\_\_\_  
TAE-JONG YOON

Witness1:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

Witness2:

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Date: \_\_\_\_\_

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Ralph Weisleder, of Peabody, Massachusetts; Hakho Lee, of Acton, Massachusetts; and Tae-Jong Yoon, of Yongin, Kyeonggi-do, South Korea, hereby assign to: THE GENERAL HOSPITAL CORPORATION, a corporation of Massachusetts, having a place of business 55 Fruit Street, Boston, Massachusetts 02114; 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 and described and/or claimed in a utility application for United States Patent, entitled "Magnetic Nanoparticles," filed on November 21, 2012, and assigned U.S. Serial Number 13/699,378; this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, 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; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements; and

we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

we hereby covenant that we have the full right to convey the entire right, title, and interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith.

Date: \_\_\_\_\_  
\_\_\_\_\_ RALPH WEISSLEDER

Witness1:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Witness2:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: \_\_\_\_\_  
\_\_\_\_\_ HAKHO LEE

Witness1:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Witness2:

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_

Date: Apr. 8, 2013

Tae-Jong Yoon  
TAE-JONG YOON

Witness 1:

Signature: Kyeong Nam Yu

Date: Apr. 8, 2013

Printed Name: Yu, Kyeong Nam

Date: Apr. 8, 2013

Witness 2:

Signature: Sh. Shin

Date: Apr. 8, 2013

Printed Name: Lee, Shin-Hyoung

Date: Apr. 8, 2013