

# PATENT ASSIGNMENT

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Semes Co., Ltd.	10/04/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Korea Kumho Petrochemical Co., Ltd.
<b>Street Address:</b>	115 Sinmunno 1-Ga, Jongno-Gu
<b>Internal Address:</b>	Kumho Asiana Main Tower
<b>City:</b>	Seoul
<b>State/Country:</b>	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
<b>Postal Code:</b>	110-857
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12290926
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)585-0059
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Correspondent Name:</b>	Kilpatrick Townsend & Stockton, LLP
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<b>Address Line 2:</b>	8th Floor
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<b>ATTORNEY DOCKET NUMBER:</b>	93332-822926
<b>NAME OF SUBMITTER:</b>	Joan R. Soll
<b>Total Attachments: 2</b> source=93332-822926 Assignment#page1.tif source=93332-822926 Assignment#page2.tif	

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**PATENT**  
**REEL: 027080 FRAME: 0451**

## ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, we, SEMES CO., LTD., a Cheonan-si, Chungcheongnam-do, Republic of Korea, corporation/company having a place of business at: 623-5 Eopseong-dong, Cheonan-si, Chungcheongnam-do, Republic of Korea, wherein assignment has been recorded on at Reel 022208 Frame 0288

hereby assigns to Korea Kumho Petrochemical Co., Ltd., a Seoul, Republic of Korea corporation/company having a place of business at: Kumho Asiana Main Tower, 115 Sinmunno 1-Ga, Jongno-Gu, Seoul 110-857 Republic of Korea, the entire right, title and interest throughout the world in the inventions and improvements

which are subject of an application for United States Patent signed by us this day, entitled Fluidizing bed apparatus for producing carbon nanotubes and carbon nanotube production facility and method using the same, filed on November 4, 2008, at the United States Patent and Trademark Office, under U.S. Application Serial No. 12/290,926;

this assignment including said application, any and all United States and foreign patents, utility models, 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 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 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, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

SEMES CO., LTD.

Date: October 4, 2011

Signature: 

Printed Name : Sang Kwon NAM  
Title : Representative Director of SEMES Co., Ltd.

Witnessed By:

Date: October 4, 2011

Signature: 안정 아  
Printed Name : Jung Ah AHN

Witnessed By:

Date: October 4, 2011

Signature: 조재승

Printed Name : Jae Seung JO