

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																		
NATURE OF CONVEYANCE:	ASSIGNMENT																		
CONVEYING PARTY DATA																			
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jae Wook Kang</td> <td>08/28/2013</td> </tr> <tr> <td>Do Geun Kim</td> <td>08/28/2013</td> </tr> <tr> <td>Jong Kuk Kim</td> <td>08/28/2013</td> </tr> <tr> <td>Sung Hun Jung</td> <td>08/28/2013</td> </tr> <tr> <td>Myungkwan Song</td> <td>08/28/2013</td> </tr> <tr> <td>Dae Sung You</td> <td>08/28/2013</td> </tr> <tr> <td>Chang Soo Kim</td> <td>08/28/2013</td> </tr> <tr> <td>Kee Seek Nam</td> <td>08/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	Jae Wook Kang	08/28/2013	Do Geun Kim	08/28/2013	Jong Kuk Kim	08/28/2013	Sung Hun Jung	08/28/2013	Myungkwan Song	08/28/2013	Dae Sung You	08/28/2013	Chang Soo Kim	08/28/2013	Kee Seek Nam	08/28/2013
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<table border="1"> <tr> <td>Name:</td> <td>Korea Institute of Machinery and Materials</td> </tr> <tr> <td>Street Address:</td> <td>171 Jang-dong</td> </tr> <tr> <td>Internal Address:</td> <td>Yuseong-Gu</td> </tr> <tr> <td>City:</td> <td>Daejeon</td> </tr> <tr> <td>State/Country:</td> <td>KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF</td> </tr> <tr> <td>Postal Code:</td> <td>305-343</td> </tr> </table>		Name:	Korea Institute of Machinery and Materials	Street Address:	171 Jang-dong	Internal Address:	Yuseong-Gu	City:	Daejeon	State/Country:	KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF	Postal Code:	305-343						
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PROPERTY NUMBERS Total: 1																			
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14004557</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14004557														
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CORRESPONDENCE DATA																			
Fax Number:	6124927077																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
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Email:	ip@fredlaw.com, kpietruszewski@fredlaw.com																		
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ATTORNEY DOCKET NUMBER:	57428.51.1
NAME OF SUBMITTER:	Thomas R. Hipkins
Signature:	/Thomas R. Hipkins/
Date:	09/16/2013
Total Attachments: 3 source=57428511_Signed_Assign#page1.tif source=57428511_Signed_Assign#page2.tif source=57428511_Signed_Assign#page3.tif	

ASSIGNMENT

I/We, KANG, Jae Wook; KIM, Do Geun; KIM, Jong Kuk; JUNG, Sung Hun; SONG, Myungkwan; YOU, Dae Sung; KIM, Chang Soo; NAM, Kee Seok, Korean citizens residing at

#111-405 Ilsindaedong Free Village Seongju-dong Seongsan-gu Changwon-si Gyeongsangnam-do 642-940, Republic of Korea,

#117-102 Seongju 2-cha Union Village 153 Seongju-dong Seongsan-gu Changwon-si Gyeongsangnam-do 642-939, Republic of Korea,

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#204-303 Sunkyung 2-cha Apt. Ujeong-dong Jung-gu Ulsan 681-761, Republic of Korea,

#163-6 Gyobang-dong Masanhappo-gu Changwon-si Gyeongsangnam-do 631-850, Republic of Korea,

#301 KIMS Apt. Gaeumjeong-dong Seongsan-gu Changwon-si Gyeongsangnam-do 642-110, Republic of Korea,

#211-202 Lotte Apt. Yongho-dong Changwon-si Gyeongsangnam-do 641-784, Republic of Korea

respectively, have made an invention relating

METHOD FOR MANUFACTURING A FLEXIBLE SUBSTRATE HAVING METAL WIRING EMBEDDED THEREIN, AND FLEXIBLE SUBSTRATE MANUFACTURED BY THE METHOD

and have executed an application for United States Letters Patent based thereon (and based on International Application No. PCT/KR2012/003012 filed on 19 April 2012 and identified by attorney's File No. 57428.51.1, and naming the following inventors: KANG, Jae Wook; KIM, Do Geun; KIM, Jong Kuk; JUNG, Sung Hun; SONG, Myungkwan; YOU, Dae Sung; KIM, Chang Soo; NAM, Kee Seok. I/We hereby authorize attorneys associated with Customer No 22859, of Fredrikson & Byron, P.A., 200 South Sixth Street, Suite 4000, Minneapolis, Minnesota, 55402-1425, to insert the U.S. Application No. and filing date of said application when known: Application No. 14/004,557 filed on 09/11/2013.

In exchange for good and valuable consideration, the receipt of which we now acknowledge, I(we) hereby assign to **Korea Institute of Machinery and Materials**, a government agency with an address of 171 Jang-dong Yuseong-gu Daejeon 305-343, Republic of Korea, its successors and assigns ("Assignee(s)");

(1) The entire right, title and interest to the above-identified invention and application;

(2) The entire right, title and interest to any United States or foreign Letters Patents which may issue with respect to the above-identified invention;

(3) The entire right, title and interest to any renewals, reissues, extensions, substitutions, continuations, continuations-in-part, or divisions that may be filed with respect to the above-identified invention and application; and

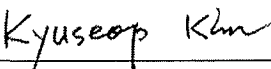
(4) The right to apply for Letters Patents in foreign countries in its own name and to claim any priority rights to which such foreign applications are entitled under international conventions, treaties or otherwise.

We further agree for ourselves and for our heirs, executors and administrators, to execute and deliver without further consideration any further applications, assignments or other documents and to perform such other lawful acts as Assignee, its successors and assigns may deem necessary to fully secure its rights, title or interest as outlined herein.

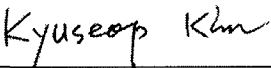
We hereby authorize and request the Commissioner of Patents and Trademarks to issue to Assignee any Letters Patents which may be granted in accordance with this Assignment.

Dated this 28th day of August, 2013

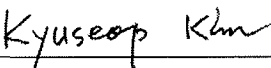
WITNESS:



Kyu Seop KIM



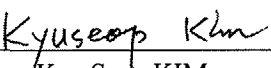
Kyu Seop KIM




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Kyu Seop KIM



Kyu Seop KIM




KANG, Jae Wook



KIM, Do Geun



KIM, Jong Kuk



JUNG, Sung Hun



SONG, Myungkwon

Kyuseop Kim

Kyu Seop KIM

Kyuseop Kim

Kyu Seop KIM

Kyuseop Kim

Kyu Seop KIM

[Signature]

YOU, Dae Sung;

[Signature]

KIM, Chang Soo

[Signature]

NAM, Kee Seok