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19270 U.S. PTO  
10/822258  
040904

1. Name of conveying party(ies): Yong Soo KANG; Hoon Sik KIM; Jong Hak KIM; Kookheon CHAR; Sang Wook KANG; and Jongok WON Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: <u>Korea Institute of Science and Technology</u> Address: <u>39-1 Hawolgok-dong, Seongbuk-gu, Seoul 136-791</u> Country (if other than USA): <u>Republic of Korea</u>
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment                      Merger  Security Agreement                      Change of Name  Other Execution Date: <u>March 5, 2004</u>	

4. Application number(s) or patent number(s): 10822258  
 If this document is being filed together with a new application, the execution date of the application is: March 5, 2004  
 A. Patent Application No.(s) Not yet assigned                      B. Patent No.(s)  
 Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed: JONES DAY 222 East 41st Street New York, New York 10017	6. Number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41):.....\$ <u>40</u> Please charge to the deposit account listed in Section 8. 8. Deposit account number: <u>503013</u>
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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Yeahsil Moon                      52,042                      Yeahsil Moon                      April 9, 2004  
 Name of Person Signing                      Reg. No.                      Signature                      Date  
 For Anthony Insogna, Reg. No. 35,203

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PATENT  
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ASSIGNMENT

WHEREAS, WE, KANG, Yong Soo; KIM, Hoon Sik; KIM, Jong Hak; CHAR, Kookheon; KANG, Sang Wook; and, WON, Jongok citizens of Republic of Korea, residing at Dong-a Echoville Apt. 107-302, 101 Sangwolgok-dong, Seongbuk-gu, Seoul 136-784, Korea; Daewoo Apt. 106-1305, 1021 Jeongneung-dong, Seongbuk-gu, Seoul 136-767, Korea; Hanyang Apt. 6-1003, Ssangmun 3-dong, Dobong-gu, Seoul 132-741, Korea; Banpo Hyundai Villa A-304, 104-16 Banpo 4-dong, Seocho-gu, Seoul 137-806, Korea; 102-188 Yongdu 2-dong, Dongdaemun-gu, Seoul 130-820, Korea; and, Hansin Apt. 103-602, Chcongyangni 1-dong, Dongdaemun-gu, Seoul 130-775, Korea are the inventors of the invention in for which we have executed an application for a Patent of the United States

- which is executed on even date herewith or
which is identified by Jones Day docket no.
which was filed on , Application No.
We hereby authorize and request our attorney, , of Jones Day, , to insert here in parentheses (Application number, filed ) the filing date and application number of said application when known.

and WHEREAS, KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY of 39-1 Hawolgok-dong, Seongbuk-gu, Seoul 136-791, Republic of Korea, ASSIGNEE is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

FACILITATED TRANSPORT MEMBRANES COMPRISING A POROUS SUPPORT AND A SOLID POLYMER ELECTROLYTE CONSISTING OF A TRANSITION METAL SALT AND A POLYMER HAVING PHTHALIC STRUCTURE

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not excuted, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date March 5, 2004 KANG, Yong Soo L.S.
Date March 5, 2004 KIM, Hoon Sik L.S.
Date March 5, 2004 KIM, Jong Hak L.S.
Date March 5, 2004 CHAR, Kookheon L.S.
Date March 5, 2004 KANG, Sang Wook L.S.
Date March 5, 2004 WON, Jongok L.S.
State of )
) SS.:
County of )

On , 2004, before me, , Notary Public, personally appeared , personally known to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal