

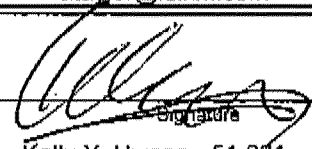
Form PTO-1595 (Rev. 03-11)
OMB No. 0651-0027 (exp. 03/31/2012)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

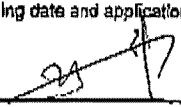
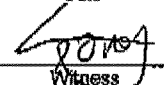
RECORDATION FORM COVER SHEET

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies): Ra-Young Hwang (07/10/2010) and Ji-Sang Yu (03/02/2000) 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>LG Chem, Ltd.</u> Internal Address: _____ Street Address: _____ LG Twin Towers 20, Yeouido-dong Yeongdeungpo-gu City: <u>Seoul</u> State: _____ Country: <u>Republic of Korea</u> Zip: <u>150-721</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance/Execution Date(s): Execution Date(s): <u>in parentheses after inventor name</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____			
4. Application or patent number(s): A. Patent Application No.(s) <u>12/680,297</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> This document is being filed together with a new application. B. Patent No.(s) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Kelly Y. Hwang</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ & MENTLIK, LLP</u> Internal Address: <u>Atty. Dkt.: LGCHEM 3.9-138 CON</u> Street Address: <u>600 South Avenue West</u> City: <u>Westfield</u> State: <u>NJ</u> Zip: <u>07090</u> Phone Number: <u>908-654-5000</u> Fax Number: <u>908-654-7866</u> Email Address: <u>ataylor@ldlkm.com</u>		6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
		8. Payment Information Deposit Account Number <u>12-1095</u> Authorized User Name <u>Kelly Y. Hwang</u>	
9. Signature: <div style="text-align: center;">  _____ Kelly Y. Hwang - 51,881 Name of Person Signing </div> <div style="text-align: right;"> _____ March 28, 2012 Date </div> <div style="text-align: right; margin-top: 10px;"> Total number of pages including cover sheet, attachments, and documents: 4 </div>			

CH \$40.00 121095 12680297

ASSIGNMENT OF UTILITY APPLICATION		former PTO/SB/15 (8-00) Modified LDLKM Docket Number (Optional) LGCHEM 3.9-136 CON
<p>Whereas, I, <u>Ra-Young Hwang</u> of <u>303, Shinyeonilp, LG Chemical Employee Apt., Doryong-dong, Yuseong-gu, Daejeon, REPUBLIC OF KOREA 305-340</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in <u>NON-AQUEOUS ELECTROLYTE SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY COMPRISING THE SAME</u> <input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>March 26, 2010</u> Application Number <u>12/680,297</u> <input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____ <input checked="" type="checkbox"/> for which an International Application was filed on <u>April 7, 2009</u> as <u>PCT/KR2009/001792</u>, designating the United States.</p> <p>And Whereas, <u>LG Chem, Ltd.</u> a corporation of <u>Korea, Republic of</u> herein referred to as "assignee" whose mailing address is <u>120, Yoido-dong, Youngdungpo-gu Seoul 150-721 Republic of Korea</u> is desirous of acquiring the entire right, title and interest in the same:</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollars (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;"> <u>July 10, 2010</u> Date </div> <div style="text-align: center;">  Ra-Young Hwang </div> </div> <div style="display: flex; justify-content: center; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  Witness </div> <div style="margin-left: 20px;"> <u>Mi-Ran SONG</u> Typed Name of Witness </div> </div>		
<input checked="" type="checkbox"/> Total of <u>2</u> forms are submitted.		

LD-515

1118801_1.DOC



ENGLISH TRANSLATION OF EMPLOYMENT AGREEMENT

DECLARATION

I, the undersigned, declare that I will faithfully abide by all the following commitments as an employee of the company, in particular, as a researcher in the department of research and development of manufacturing technologies.

1. I declare that I will abide by the Laws, Articles, Rules and Decrees of the company as well as comply with my superior's instructions during my time of employment.
2. I declare that I will diligently cultivate my character to improve my personality and not disgrace the reputation of the company.
3. I declare that I will recognize the importance of my role in the company by working with pride and endeavor and contribute to the development of the company and always strive to further the company.
4. I declare that I will assign gratuitously, to the company, the entirety (including patent, utility model, design and all other intellectual property rights, ideas, and 'know-how') of all inventions related to the company during my time of employment.
5. I declare that I will sincerely cooperate with the company in completing certain procedures, if required to proceed with the filing, registration, and other actions for protection of the rights of invention and discovery during my time of employment.
6. I declare that I will not abuse technical and administrative trade secrets (including drawings, research materials, copies, films, and all information and company secrets related to business) known during my time of employment, by taking out and leaking files, materials, and company secrets to third party(s) during my time of employment and after resignation.
7. I declare that I will not start a business and enter any company in the same industry that may infringe trade secrets related to the company for two years after resignation without prior permission.
8. I declare that I will not object to civil and criminal penalties in the case any of the above is in violation.

I hereby declare that I will abide by the commitments made in this Declaration, and if any harm or damage to the company is caused by violation of the commitments made in this Declaration, I will accept without traverse all legal actions determined by the company as well as compensate for the damage equivalent thereto without delay.

Date March 2, 2000

Position: Battery lab

Name: YU, Ji-Sang

LG CHEM. LTD.

연구원서약서

본인은 생산, 기술, 개발 연구부문에 근무함에 있어서 다음 각조항을 성실히 준수할 것을 서약합니다.

1. 회사에 제직증은 법, 정관, 제사규, 기타명령, 지시사항을 준수함은 물론 범사를 상사의 지시에 따라 수행하겠음.
2. 항상 근검으로 품성을 도야하며 인격의 향상을 기함은 물론 사원으로서의 명예를 손상케함이 없도록 하겠음.
3. 본인의 수행업무의 중요성을 인식하고 동 업무수행에 대해 자부심을 가지며 지적 발전에 노력, 회사발전에 기여하겠음.
4. 제직중 업무와 관계되는 것은 물론 그외의 모든 발명 및 발견사항(특히 실용신안, 외장등 공업소유권과 아이디어 및 일체의 'Know-how'를 포함)은 회사에 무상으로 양도하겠음.
5. 제직중 발명 및 발견한 사항에 대하여 회사가 권리보호를 위한 출원, 등록, 기타 필요한 절차를 취할 필요가 있는 것으로 인정하는 것에 대하여서는 소정의 절차를 필하는데 적극 협조하겠음.
6. 제직중 지득, 관리한 모든 정보, 정보자료 및 회사비밀(도면, 연구자료, 복사물, 필름, 기타업무와 유관한 모든 정보 및 회사비밀 포함)사항에 관하여 제직중 또는 퇴직후에도 회사의 제반 관리규정에 의한 보완책임을 성실히 수행하여 외부에 누설하지 아니하겠으며, 본인 및 타인을 위해 사용, 소유하지 아니하겠음.
7. 회사의 사전 허가없이 퇴직후 2년간 동종업체나 회사의 비밀에 관련되는 업무에 종사하지 않겠으며, 본인이 직접 이와같은 업을 경영하지 않겠음.
8. 7항의 위반시는 본인이 회사의 비밀을 누설한 것으로 간주하여도 이의를 제기하지 않겠음.

이상 각조항의 이행을 확실히 서약하오며 만일 서약사항을 위반하여 회사업무상 장애를 야기케하거나 회사에 손해를 끼친 경우에는 회사에서 결정한 처벌에 이의 없음은 물론 해당 손해액을 지체없이 변상하겠아옴기에 그 증으로 본서를 제출합니다.

2000 년 3 월 2 일
소 속 battery 부서
직 위
성 명 유 지상



(주) LG 화학 대표이사 귀하

PATENT