

05-17-2004



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Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies): S.G.O.P Kee-Ho Chang (03/10/2004), Sang-Hun Lee (03/10/2004), Joo-Seok Oh (03/10/2004), Jeong-Teck Rim (03/10/2004), and Jeong-Deok Seo (03/10/2004)

Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No

3. Nature of Conveyance: [x] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Execution Date: see Box 1, conveying parties

2. Name and address of receiving party(ies) Name: Hanwha Chemical Corporation

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1, Janggyo-dong Jung-gu 100-797 Seoul Republic of Korea

City:

State: Zip:

Additional name(s) & address(es) attached: [ ] Yes [x] No

4. Application number(s) or patent number(s): 10841861

If this document is being filed together with a new application, the execution date of the new application is:

A. Patent Application No.(s): This application

B. Patent No.(s):

Additional numbers attached? [ ] Yes [x] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patricia Granahan, Sc.D. ROPES & GRAY LLP

Internal Address: Atty. Dkt.: LPRK-P01-001

Street Address: One International Place

City: Boston State: MA Zip: 02110-2624

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

[ ] Enclosed [x] Authorized to be charged to deposit account [ ] Authorized to be charged to credit card (Form 2038 enclosed)

8. Deposit account number: 18-1945

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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.

Edward A. Gordon - 54,130 Name of Person Signing

[Signature]

May 6, 2004 Date

Total number of pages including cover sheet, attachments, and documents: 3

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV324844336US, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: 5-6-04 Signature: Maura A. Gallagher (Maura A. Gallagher)

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PATENT

REEL: 015323 FRAME: 0060

**ASSIGNMENT**

WHEREAS, the Undersigned has developed certain inventions described in U.S. patent application titled:

**INSULATED CONDUCTIVE BALL FOR ANISOTROPIC CONDUCTIVE CONNECTION, METHOD OF PREPARING THE SAME, AND PRODUCT USING THE SAME**

now U.S. Application No. \_\_\_\_\_ filed May 6, 2004; and has full right to convey his entire interest, both legal and equitable, in and to said inventions free from all prior assignments, agreements, licenses, mortgages, security interests, or other encumbrances whatsoever; and

WHEREAS, **HANWHA CHEMICAL CORPORATION**, a corporation having executive offices at **1, Janggyo-dong, Jung-gu, 100-797 Seoul, Republic of Korea**, ("ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said invention or inventions and any and all patents to be obtained therefor;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the Undersigned, the Undersigned hereby sells, assigns and transfers unto said ASSIGNEE, its successors and assigns, his entire right, title and interest in and to said invention or inventions, as described in the aforesaid application and all applications resulting therefrom, including any and all divisions, continuations, continuations in part, substitute applications, and reissues or extensions thereof; and all resulting patents.

AND the Undersigned hereby authorizes and requests the issuing authority to issue any and all patents on said application or applications to said ASSIGNEE or its successors and assigns; the Undersigned agrees that the attorney of record in said application shall hereinafter act on behalf of said ASSIGNEE.

AND, the Undersigned further agrees, without any further payment or compensation by said ASSIGNEE or its successors and assigns, to communicate to said ASSIGNEE, its representatives or agents or its successors and assigns, any facts relating to said invention or inventions including evidence for interference purposes or for other legal proceedings whenever requested; to testify in any interference or other legal proceedings, whenever requested; to execute and deliver, on request, all lawful papers required to make any of the foregoing provisions effective; and to generally do everything possible to aid said ASSIGNEE, its successors or assigns and nominees to secure, obtain and enforce proper patent protection for said invention or inventions in this or any foreign country.

The undersigned hereby authorizes Ropes & Gray LLP, to insert hereon any further identification information necessary or desirable for recordation of this document.

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Date Signed

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