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HEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office
Docket No.: 6181/OJ788

12-201

To the Honorable Commissioner of Patents and Trademarks, U.S. Department of Commerce, Washington, D.C. 20231. Attached original documents or copy thereof.

1. Name of conveying party(ies):
Nyun Nam CHO; Young Chul KIM; Jae-Min HONG; Jong-Bok KIM; Doo Kyung MOON; Young Sei PARK; Ho Seong NAM
Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: November 21, 2001 11/21/01, 11/21/01
11/21/01, 11/21/01, 11/21/01, 11/21/01

2. Name and address of receiving party(ies):
Name: **Korea Institute of Science and Technology (KIST); 39-1, Hawolgok-Dong, Sungbook-ku, Seoul 136-791, Korea**
Name: **Hanwha Chemical Corporation; #1, Changgyo-Dong, Chung-Ku, Seoul, Korea**
Internal Address:
Street Address:
City: State: Zip:
Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s)
09/947,208
Additional numbers attached? Yes No

B. Patent No.(s)
6. Total number of applications and patents involved: 1

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Darby & Darby P.C.
Internal Address: S. Peter Ludwig
Street Address: 805 Third Avenue, 27th Floor
City: New York State: New York Zip: 10022-7513

7. Total fee (37 CFR 3.41):.....\$ 40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
04-0100
(Attach duplicate copy of this page if paying by deposit account)

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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.
S. Peter Ludwig (25,351)
Name of Person Signing

Signature
December 7, 2001
Date
Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 012368 FRAME: 0139

ASSIGNMENT

We, **Hyun Nam Cho**, a citizen of Korea, residing at 2-38, Shinkil-Dong, Yungdeungpo-Ku, Seoul, Korea 150-050; and **Young Chul Kim**, citizen of Korea, residing at Woosung Apt. 108-606, 320, Jamsil-Dong, Songpa-Ku, Seoul Korea 138-220; and **Jae-Min Hong**, citizen of Korea, residing at 159-4, Anam-Dong 5-Ka, Sungbook-Ku, Seoul Korea 136-075; and **Jong-Bok Kim**, citizen of Korea, residing at Taeyang Villa B-08, 1604-37, Seocho 1-Dong, Seocho-Ku, Seoul, Korea 137-071; and **Doo Kyung Moon**, citizen of Korea, residing at Doore Apt. 108-1007, 152-1, Shinsung-Dong, Yusong-Ku, Taejon, Korea 305-345; and **Young Sei Park**, citizen of Korea, residing at Bora Apt. 203-1003, 994, Samcheon-Dong, Suh-Ku, Taejon, Korea 302-222; and **Ho Seong Nam**, citizen of Korea, residing at Doore Apt. 108-501, 152-1, Shingsung-Dong, Yusong-Ku, Taejon, Korea 302-345, (hereinafter called "ASSIGNORS") in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, paid to us by

KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY (KIST)

a NON-PROFIT organization existing under the laws of Korea, located at 39-1, Hawolgok-Dong, Sungbook-Ku, Seoul 136-791, Korea,

and

HANWHA CHEMICAL CORPORATION

a corporation organized under the laws of Korea, located at #1, Changgyo-Dong, Chung-Ku, Seoul, Korea

(hereinafter, collectively, called the "ASSIGNEES"), do hereby sell and assign to said ASSIGNEES, its successors and assigns, all my right, title and interest, **in and for the United States of America**, in and to our invention entitled:

FLUORENE BASED POLYMERS AND LIGHT EMITTING DIODES FABRICATED WITH THE SAME AS LIGHT EMITTING MATERIAL

invented by me, as a co-inventor if other inventors are identified above, and described in a patent application Ser. No. 09/947,208 executed on September 4, 2001 for United States Letters Patent therefor, and all divisions, reissues, continuations and extensions thereof, said interest being **our entire ownership interest** in said Letters Patent when granted, to be held and enjoyed by said ASSIGNEES, its successors, assigns or other legal representatives, to the full end of the term for which said Letters

patent may be granted, as fully and entirely as the same would have been held and enjoyed by me if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal or reissue applications, or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said ASSIGNEES;

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEES.

I declare under penalty of perjury under the laws of the United States of America that I have signed this document as my own free act and that all of the foregoing is true and correct.

Hyun-nam Cho

Hyun Nam Cho

DATED: Nov. 21, 2001

Young Chul Kim

Young Chul Kim

DATED: Nov. 21, 2001

Jae-Min Hong

Jae-Min, Hong

DATED: NOV. 21, 2001

Jong-Bok Kim

Jong-Bok Kim

DATED: Nov. 21, 2001

Doo Kyung Moon

Doo Kyung Moon

DATED: Nov. 21, 2001

Young Sei Park

Young Sei Park

DATED: Nov. 21, 2001

Ho Seong Nam

Ho Seong Nam

DATED: Nov. 21, 2001