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

1. Name of conveying party(ies):
   Kwang-soo Hyun, Kyung-ho Park, Neung-goo Yoon, Kang-jun Choi, Soo-hong Jeong

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

2. Name and address of receiving party(ies):
   P.K. LTD
   493-3 Seongseong-dong, Cheonan-city
   Chungcheongnam-do, Republic of Korea

   Additional name(s) & addresses(ies) attached? [ ] Yes [X] No

3. Name of Conveyance:
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   Execution Date: August 14, 1999

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:
   August 14, 1999

   A. Patent Application No.(s)
   B. Patent No.(s)
   09/30710

   Additional numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: Rothwell, Figg, Ernst & Kurz

   Internal Address: ________________________________

   Street Address: 555 13th Street, N W., Suite 701 East Tower
   City: Washington
   State: D.C. Zip 20004

6. Total number of applications and patents involved: 1

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

   G. Franklin Rothwell
   Name of Person Signing

   Signature

   September 7, 1999
   Date

Total number of pages including cover sheet, attachments and documents: 2
ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I/We Kwang-soo Hyun, a citizen of Korean
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Kang-jun Choi and
Soo-hong Jeong
Address
a citizen of Korean
residing at 10-1401 Taeyeong Apt., 556 Seongnam-dong, Pyeongtaek-city, Kyungki-do, Rep. of Korea

ASSIGNOR(S), am/are the inventor(s) of an invention in (insert title) ATOMIC LAYER DEPOSITION APPARATUS FOR DEPOSITING ATOMIC LAYER ON MULTIPLE SUBSTRATES

for which I/we have executed an application for Letters Patent of the United States,

[ X] of even date herewith;

(Check One)
[ ] U.S. Serial Number ____________ filed ____________;

[ ] International Application No. PCT/ ____________ filed ____________;

and

ASSIGNEE, P.K LTD. of a corporation organized under the laws of Korea located at 493-3 Seongseong-dong Cheonan-city, Chungcheongnam-do, Rep. of Korea

WHEREAS, P.K LTD. of a corporation organized under the laws of Korea located at 493-3 Seongseong-dong Cheonan-city, Chungcheongnam-do, Rep. of Korea

ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application;

NOW, THEREFORE, in consideration of the sum of One Dollar ($1.00) to me/us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I/we, the said ASSIGNOR(S) 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, the entire right, title and interest in, to and under the said invention, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reexamination certificates, reissues and extensions thereof, and I/we hereby authorize and request the Commissioner of Patents of the United States, to issue all Letters Patent for said invention to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

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

AND I/WE HEREBY further covenant and agree that I/we will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me/us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue 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 patent protection for said invention at the expense of the ASSIGNEE.

IN TESTIMONY WHEREOF, I/we hereunto set my/our hand(s) and seal(s) the day and year set opposite my/our signature(s).

Kwang-soo Hyun

Kyung-ho Park

Neung-goo Yoon

Kang-jun Choi

Soo-hong Jeong

Witness:

Name

Date 14 August 1999

Name

Date 14 August 1999

Name

Date 14 August 1999

Name

Date 14 August 1999

Name

Date 14 August 1999

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 Foreign Inventor Sole/ Joint Assignment
Page 1 of 1

RECORDED: 09/07/1999

PATENT
REEL: 010228 FRAME: 0305