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

3. Name of Conveyance:
[ X ] Assignment [ ] Merger
[ ] Security Agreement [ ] Change of Name
[ ] Other ____________________________

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:

A. Patent Application No.(s) B. Patent No.(s)
09/390,710

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: ________________________________

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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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Attach duplicate copy of this page if paying by deposit account

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

September 7, 1999

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
residing at 117-1403 Park Town, 54 Soonae-dong, Bundang-gu, Sungnam-city, Kyungki-do, Rep. of Korea

Kyung-ho Park, second named inventor, if any
Address
residing at 410-140 Hyundai Apt., 92 Seochyung-dong, Bundang-gu, Sungnam-city, Kyungki-do, Rep. of Korea

Neung-goo Yoon, a citizen of Korean
Address
residing at 103-406 Sinsung Eunhyeong Apt., 556 Seangyang-dong, Cheonan-city, Chungcheongnam-do, Rep. of Korea

Kang-jun Choi and Soo-hong Jeong, third named inventor, if any
Address
residing at 10-1401 Taeyeong Apt., 554 Seoro-dong, Pysongtaek-city, Kyungki-do, Rep. of Korea and

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

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

Citizenship or Corporate Status
Address
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 ASSIGNEE(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
L.S.  Date 14 August 1999

Kyung-ho Park
L.S.  Date 14 August 1999

Neung-goo Yoon
L.S.  Date 14 August 1999

Kang-jun Choi
L.S.  Date 14 August 1999

Soo-hong Jeong
L.S.  Date 14 August 1999

Witness:

Name

Date

Name

Date

FOREIGN INVENTOR SIGNED/JOINT ASSIGNMENT

Page 1 of 1

RECORDED: 09/07/1999

PATENT
REEL: 010228 FRAME: 0305