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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)__________________________

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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

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   Name of Person Signing ________________________________
   September 7, 1999
   Signature
   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 residing at 117-1403 Park Town, 54 Seonae-dong, Bundang-gu, Sungnam-city, Kyungki-do, Rep. of Korea

Kyung-ho Park, a citizen of Korean

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Neung-goo Yoon, a citizen of Korean

Address

residing at 410-140 Hyundae Apt., 92 Seohyun-dong, Bundang-gu, Sungnam-city, Kyungki-do, Rep. of Korea

Kang-jun Choi and Sook-hong Jeong, a citizen of Korean

Address

residing at 103-405 Samsung Buneusa Apt., 556 Seongyong-dong, Cheonan-city, Chungcheongnam-do, Rep. of Korea

Fourth and Fifth Named Inventor, if any

410-1401 Taeyeung Apt., 554 Seongdong, Pyeongtaek-city, Kyungki-do, Re. 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 Situs

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 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

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

Sook-hong Jeong

L.S. Date 14 August 1999

Witness:

Name

Date

Name

Date

Foreign Inventor Sole/Joint Assignment

Page 1 of 1

RECORDED: 09/07/1999

PATENT

REEL: 010228 FRAME: 0305