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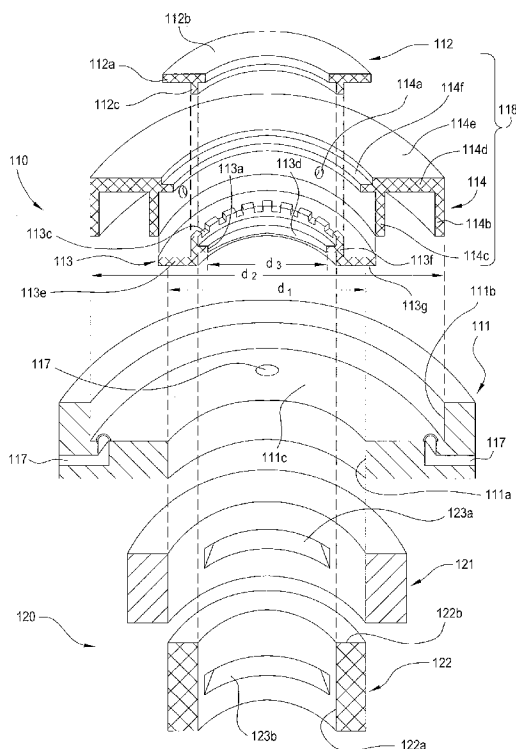
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[Continued on next page]

(54) Title: COMPARTMENTALIZED CHAMBER

(57) Abstract: Embodiments of the present invention generally relate to apparatus for improving processing uniformity and reducing needs of chamber cleaning. Particularly, embodiments of the present invention relate to a processing chamber having a loading compartment and a processing compartment in substantial fluid isolation and methods of depositing films in the processing chamber.





SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/043734**A. CLASSIFICATION OF SUBJECT MATTER*****H01L 21/205(2006.01)i, H01L 21/3065(2006.01)i***

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H01L 21/205; H01L 21/302; C23C 16/52; H05H 1/24; C23C 16/46; H01L 21/461; C23C 16/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: lower, dome, slit, valve, exhaust, showerhead, heat, substrate

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2009-0098276 A1 (BURROWS BRIAN H. et al.) 16 April 2009 See paragraph [0029] and [0057]; fig.1A	1,7,12 2-6,8-11,13-15
Y A	US 2009-0194024 A1 (BURROWS BRIAN H. et al.) 06 August 2009 See paragraph [0024], [0031], [0036], and [0048]; claim 1; fig.1	1,7,12 2-6,8-11,13-15
A	US 6489241 B1 (THILDERKVIST; ANNA LENA et al.) 03 December 2002 See column 3, line 2 - column 4, line 49; fig.2A	1-15
A	US 6358573 B1 (RAOUX; SEBASTIEN et al.) 19 March 2002 See column 7, line 37 - column 8, line 21; fig.1	1-15

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

27 FEBRUARY 2012 (27.02.2012)

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28 FEBRUARY 2012 (28.02.2012)

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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