US00D606952S

(12) United States Design Patent

Lee et al.

(10) Patent No.: US D606,952 S
(45) Date of Patent: ** Dec. 29, 2009

(54) **PLASMA INDUCING PLATE FOR SEMICONDUCTOR DEPOSITION APPARATUS**

(75) Inventors: **Jeong Ho Lee**, Seoul (KR); **Sang Jin Jeong**, Daejeon-si (KR); **Woo Chan Kim**, Deajeon-si (KR)

(73) Assignee: **ASM Genitech Korea Ltd.**, Cheonan-Si (KR)

(**) Term: **14 Years**

(21) Appl. No.: **29/331,022**

(22) Filed: **Jan. 16, 2009**

(51) **LOC (9) Cl.** **13-03**
(52) **U.S. Cl.** **D13/182**
(58) **Field of Classification Search** D13/182; 118/715; 156/345.53; 279/128; 361/234
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,660,126	B2 *	12/2003	Nguyen et al.	156/345.34
D552,565	S *	10/2007	Nakamura et al.	D13/182
D583,779	S *	12/2008	Kuriyama et al.	D13/182
7,503,980	B2 *	3/2009	Kida et al.	118/728
2002/0092471	A1 *	7/2002	Kang et al.	118/715
2005/0152089	A1 *	7/2005	Matsuda et al.	361/234
2005/0252447	A1 *	11/2005	Zhao et al.	118/715
2007/0076345	A1 *	4/2007	Bang et al.	361/234
2007/0258184	A1 *	11/2007	Lee	361/234
2008/0308230	A1 *	12/2008	Takahashi et al.	156/345.52

OTHER PUBLICATIONS

U.S. Appl. No. 29/322,630, filed Aug. 7, 2008, Aggarwal et al.

* cited by examiner

Primary Examiner—Selina Sikder
(74) *Attorney, Agent, or Firm*—Knobbe Martens Olson & Bear LLP

(57) **CLAIM**

The ornamental design for a plasma inducing plate for semiconductor deposition apparatus, as shown and described.

DESCRIPTION

FIG. **1** is a perspective view of a plasma inducing plate that may be positioned in a reaction space of a chamber in a semiconductor deposition apparatus, showing our new design with a partial enlarged view of an edge portion of the plate and a partial cross-sectional view of another edge portion of the plate;

FIG. **2** is a front view thereof;

FIG. **3** is a rear view thereof;

FIG. **4** is a left-side view thereof;

FIG. **5** is a right-side view thereof;

FIG. **6** is a top plan view thereof; and,

FIG. **7** is a bottom plan view thereof according to our new design.

The plasma inducing plate may be made of a metal. The four holes on the top surface of the plate are screw holes that do not penetrate the plate.

The ornamental design which is claimed is shown in solid lines in the drawings.

1 Claim, 5 Drawing Sheets

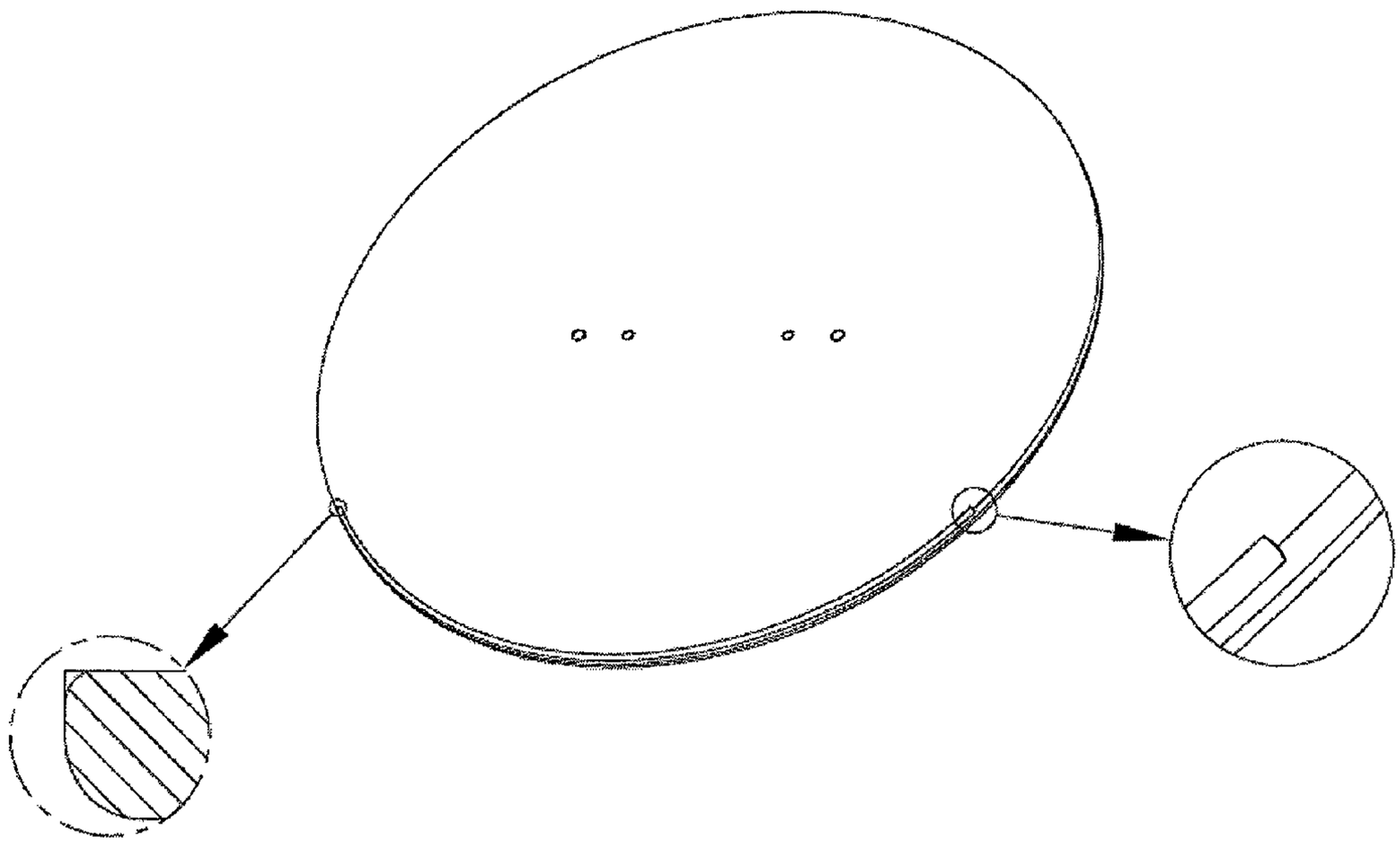

FIG. 1

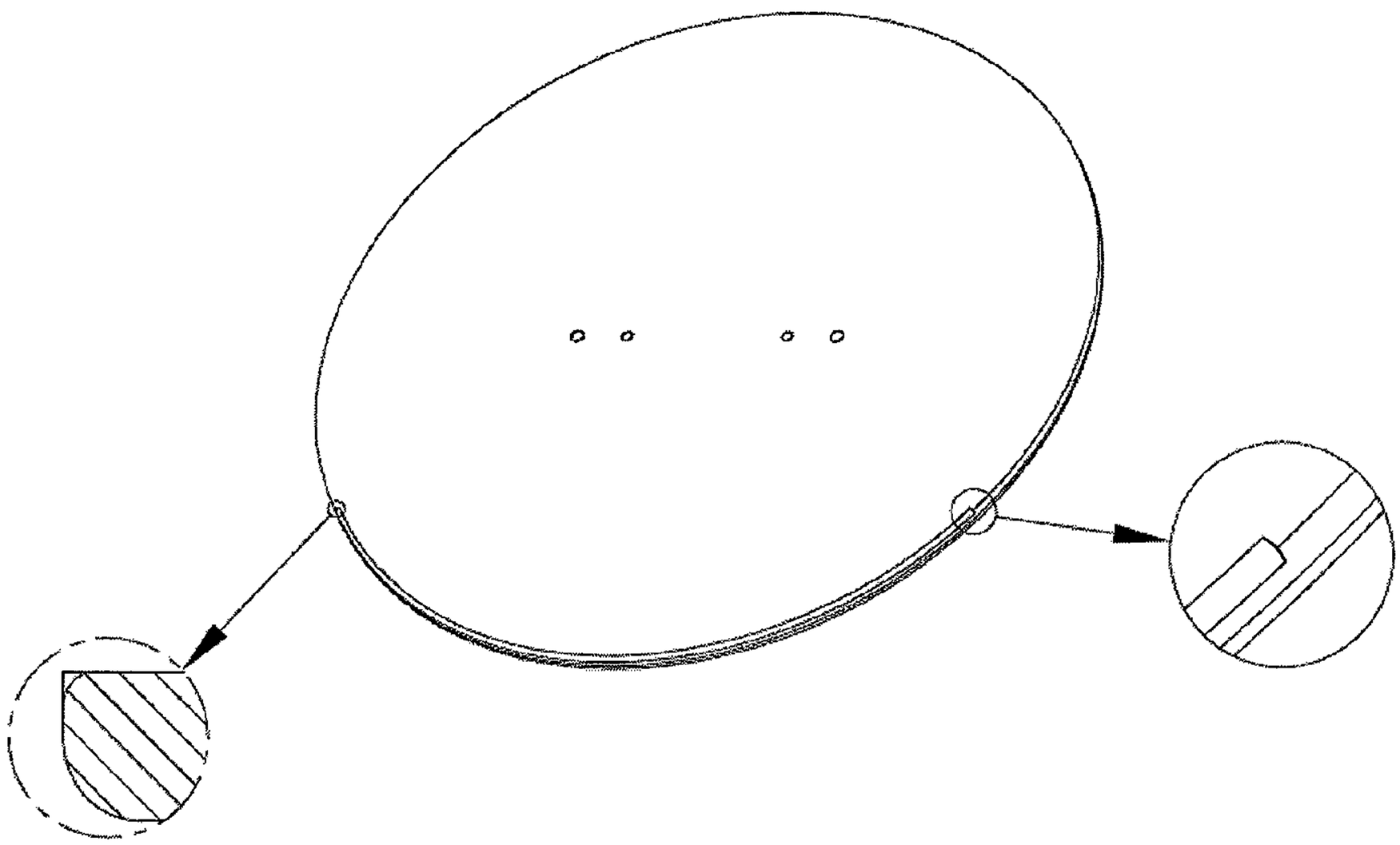

FIG. 2

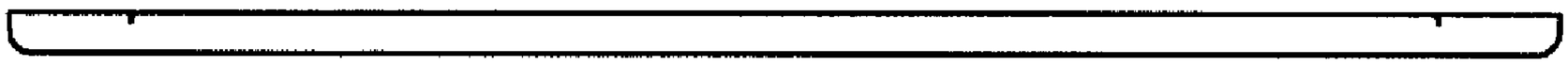

FIG. 3

FIG. 4

FIG. 5

FIG. 6

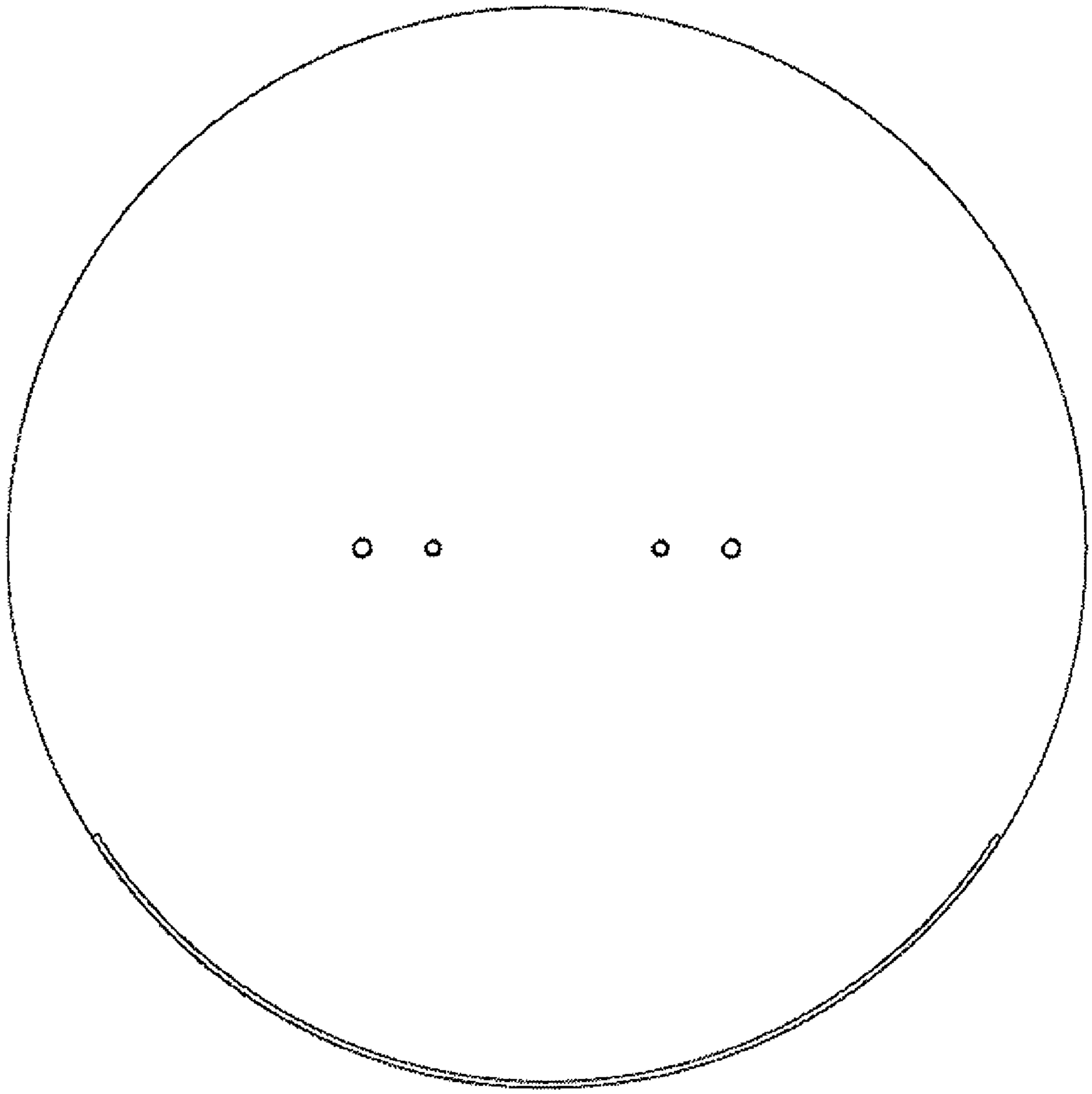

FIG. 7