



US00D591924S

(12) **United States Design Patent**
Abe

(10) **Patent No.:** **US D591,924 S**

(45) **Date of Patent:** **** May 5, 2009**

(54) **ARM FOR WAFER TRANSPORTATION FOR MANUFACTURING SEMICONDUCTOR WAFERS**

2006/0169674 A1* 8/2006 Mao et al. 216/88
2006/0210387 A1* 9/2006 Saeki et al. 414/744.5

* cited by examiner

(75) Inventor: **Takahiro Abe**, Oshu (JP)

Primary Examiner—Cynthia E Ramirez

(73) Assignee: **Tokyo Electron Limited**, Tokyo (JP)

(74) *Attorney, Agent, or Firm*—Smith, Gambrell & Russell, LLP

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

(57) **CLAIM**

(21) Appl. No.: **29/300,495**

The ornamental design for an arm for wafer transportation for manufacturing semiconductor wafers, as shown and described.

(22) Filed: **Apr. 2, 2008**

(30) **Foreign Application Priority Data**

DESCRIPTION

Oct. 3, 2007 (JP) 2007-026880

FIG. 1 is a top view of the design for a arm for wafer transportation for manufacturing semiconductor wafers in accordance with the invention;

(51) **LOC (9) Cl.** **12-05**

FIG. 2 is a bottom view thereof;

(52) **U.S. Cl.** **D34/35**

FIG. 3 is a right side view thereof;

(58) **Field of Classification Search** D34/29,

FIG. 4 is a left side view thereof;

D34/35; 198/771, 866, 890, 367, 890.1, 198/370.1, 370.4, 782, 722; 193/35 A, 35 C; 294/1.1; 414/744.5, 754; D8/366, 371, 499

FIG. 5 is a front view thereof;

See application file for complete search history.

FIG. 6 is a rear view thereof;

(56) **References Cited**

FIG. 7 is a magnified, rear, sectional view between lines A—A' of FIG. 2, along line D—D of FIG. 2; and,

U.S. PATENT DOCUMENTS

FIG. 8 is a magnified, rear, sectional view between lines B—B' of FIG. 2, along line D—D of FIG. 2.

6,116,848 A * 9/2000 Thomas et al. 414/754

The broken line showing in the figures is included for the purpose of illustrating environment and forms no part of the claimed design.

D525,408 S * 7/2006 Nitadori D34/35

7,290,813 B2 * 11/2007 Bonora et al. 294/1.1

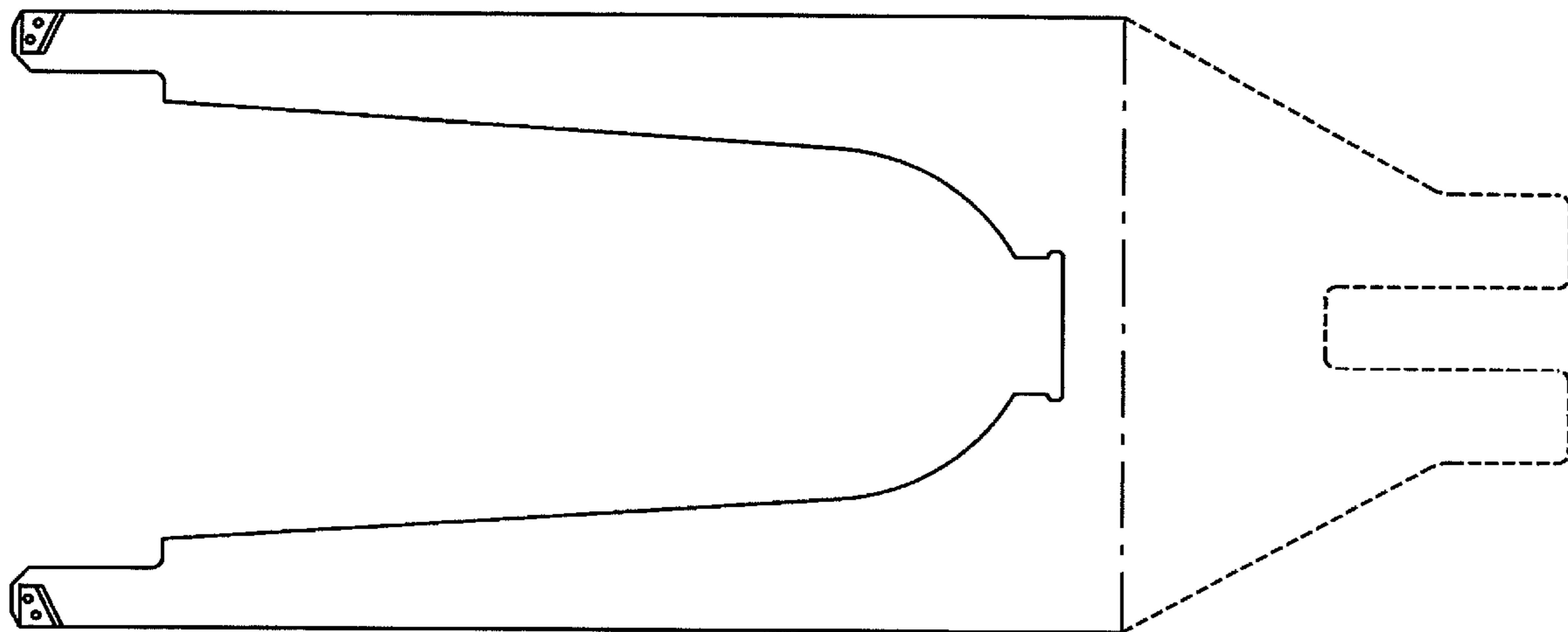
D562,524 S * 2/2008 Hiroki et al. 34/28

2003/0035711 A1 * 2/2003 Gilchrist 414/744.5

2004/0048474 A1 * 3/2004 Asano 438/689

2006/0166503 A1 * 7/2006 Sasaki et al. 438/692

1 Claim, 8 Drawing Sheets



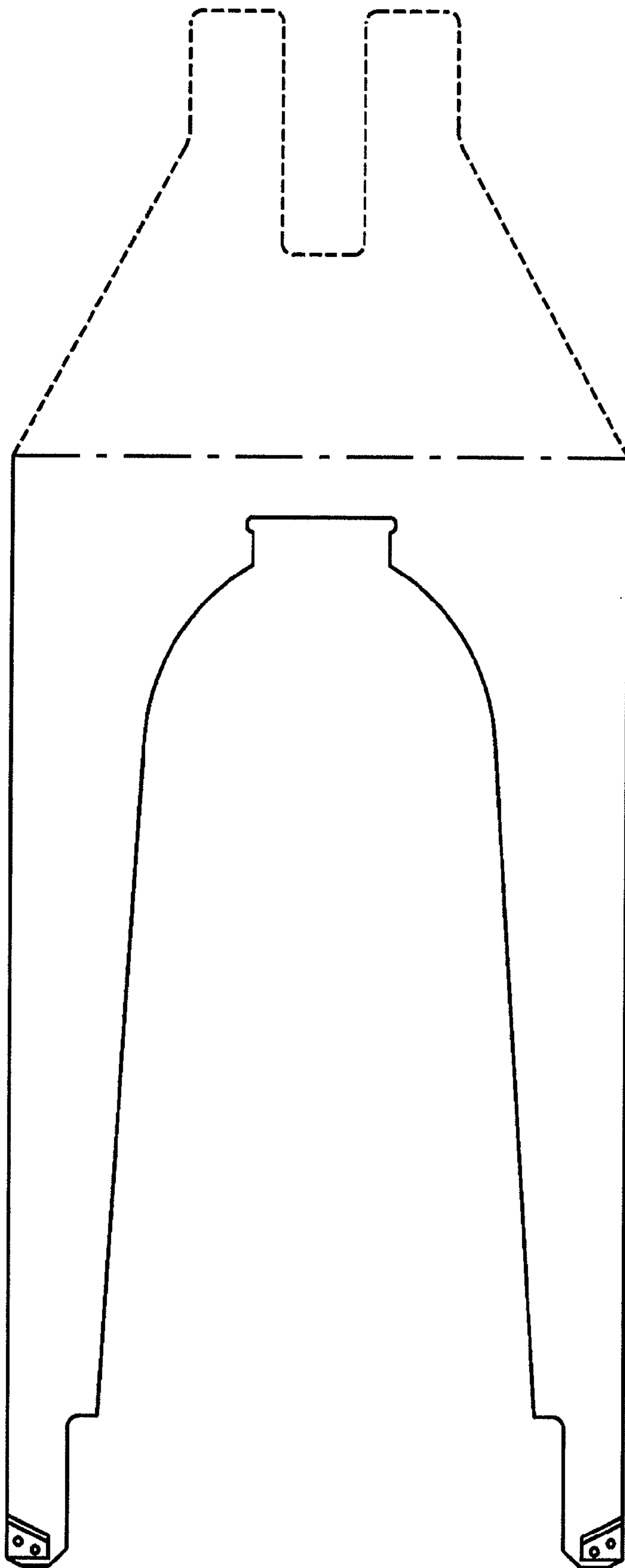


Fig.1

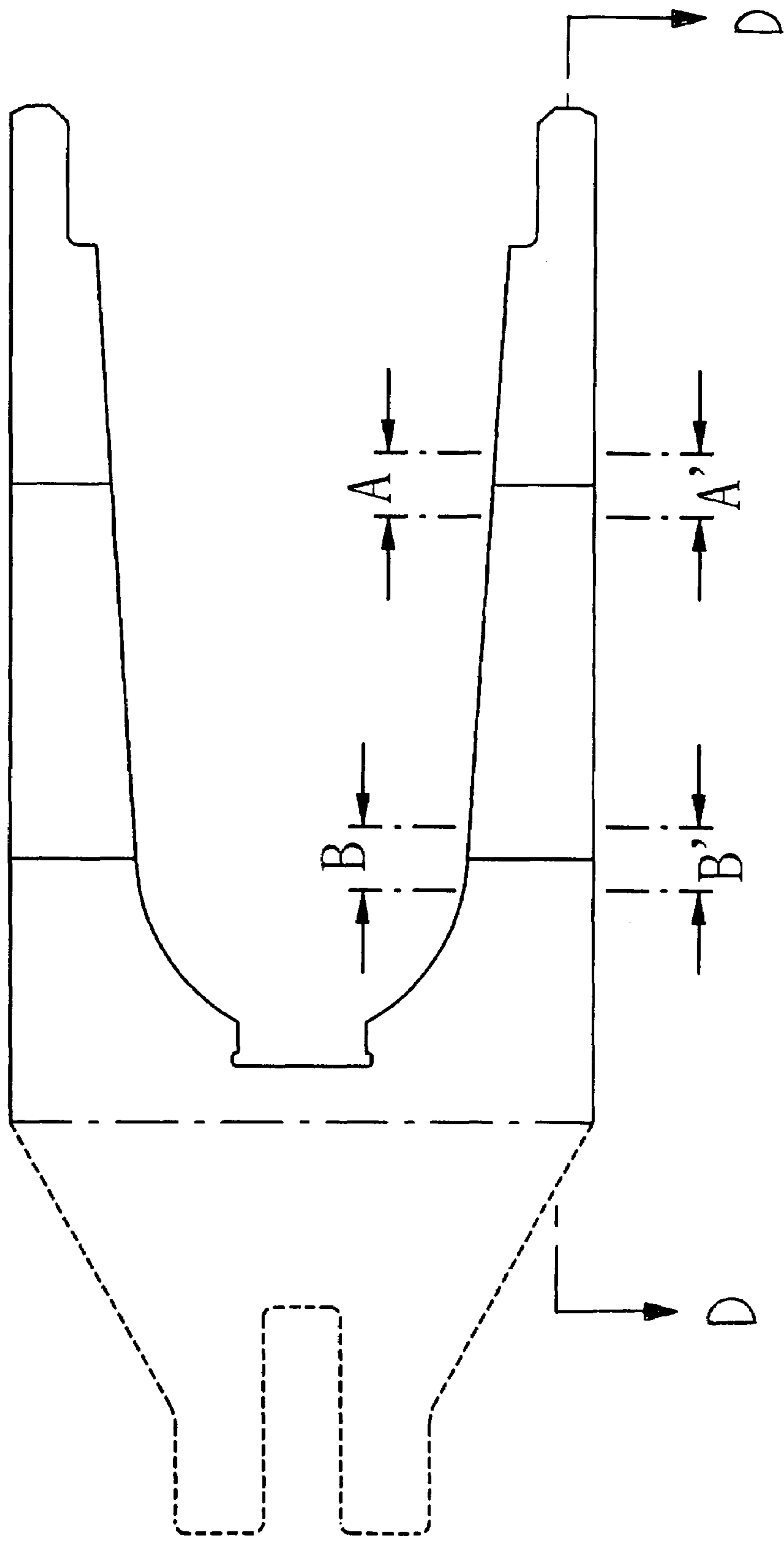


Fig. 2



Fig. 3

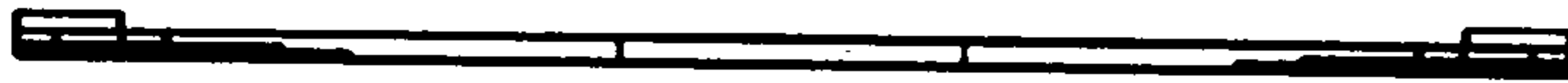


Fig. 4



Fig. 5



Fig. 6

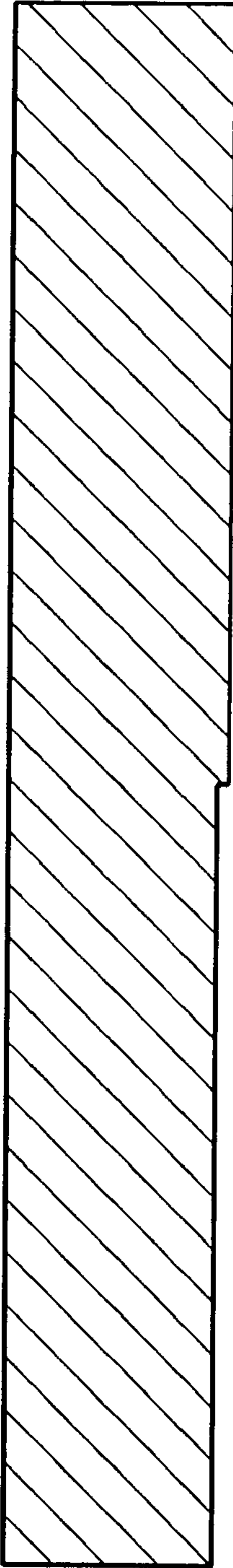


Fig. 7

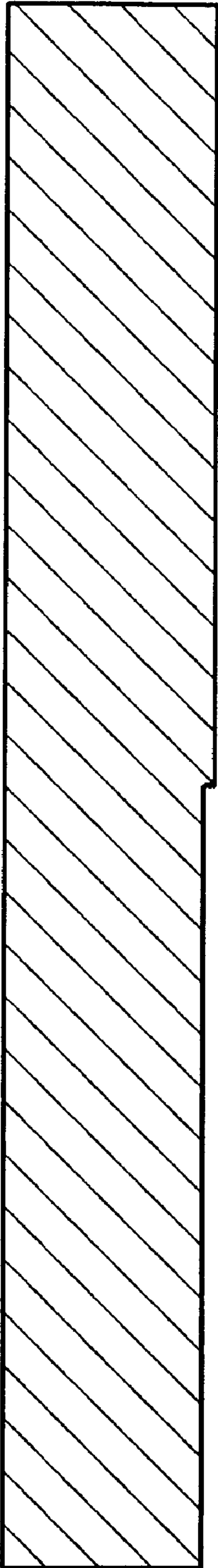


Fig. 8