



US00D428604S

# United States Patent [19]

Shiraishi et al.

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[45] Date of Patent: **\*\* Jul. 25, 2000**

[54] **CRYSTAL OSCILLATOR**

[75] Inventors: **Masayoshi Shiraishi; Toru Igarashi**, both of Tochigi; **Akio Ogasawara**, Iwate; **Hideoki Kanazawa**, Chiba, all of Japan

[73] Assignee: **SII Quartz Techno Ltd.**, Japan

[\*\*] Term: **14 Years**

[21] Appl. No.: **29/094,142**

[22] Filed: **Sep. 25, 1998**

[30] **Foreign Application Priority Data**

Mar. 26, 1998 [JP] Japan ..... 10-8464

[51] **LOC (7) Cl.** ..... **13-99**

[52] **U.S. Cl.** ..... **D13/184**

[58] **Field of Search** ..... D13/184, 199; 331/60, 68, 73, 108 C, 139, 158

[56] **References Cited**

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*Primary Examiner*—Brian N. Vinson  
*Attorney, Agent, or Firm*—Adams & Wilks

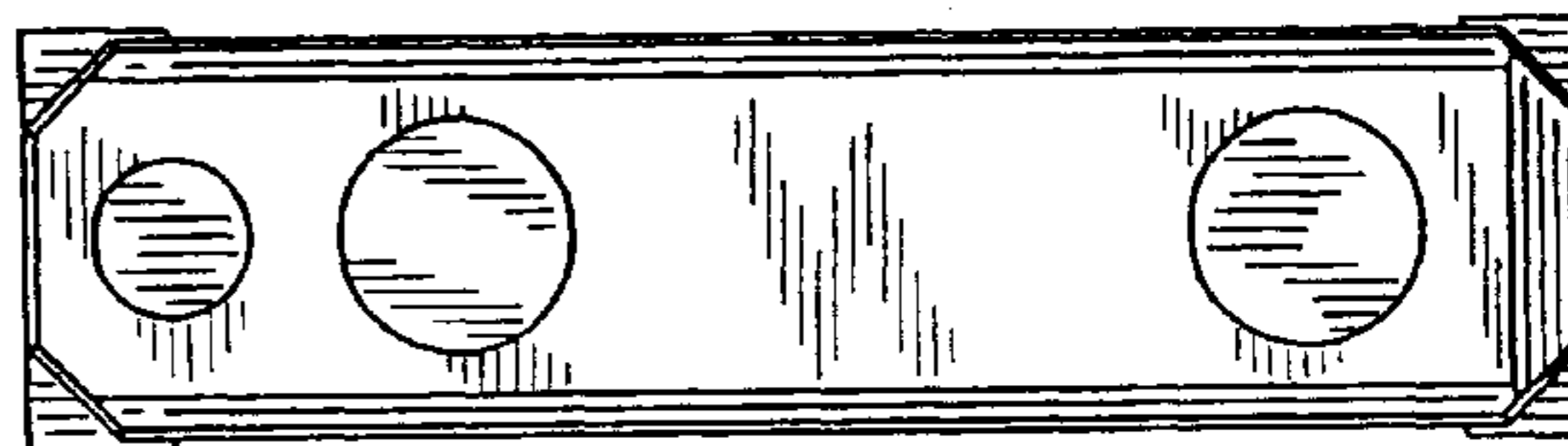
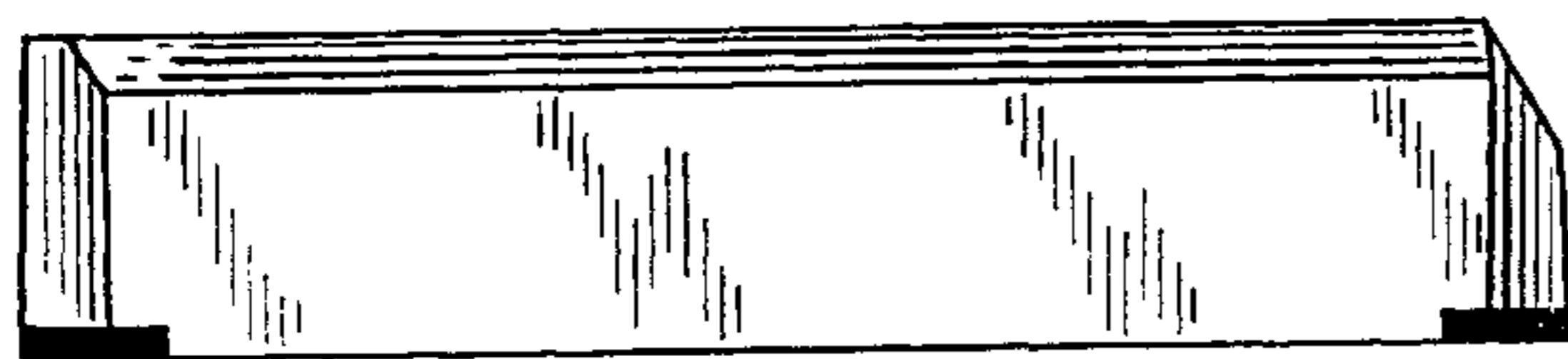
[57] **CLAIM**

The ornamental design for a crystal oscillator, as shown and described.

**DESCRIPTION**

FIG. 1 is a front elevational view of a crystal oscillator showing our new design;  
FIG. 2 is a rear elevational view thereof;  
FIG. 3 is a top plan view thereof;  
FIG. 4 is a bottom plan view thereof;  
FIG. 5 is a left elevational view thereof; and,  
FIG. 6 is a right elevational view thereof.

**1 Claim, 1 Drawing Sheet**



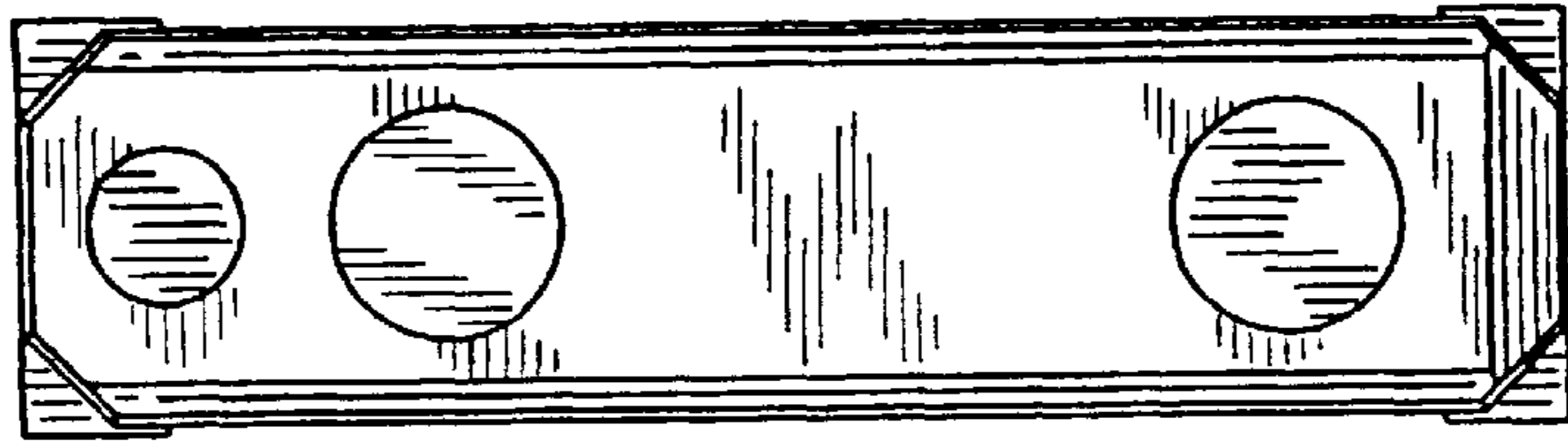


FIG. 3

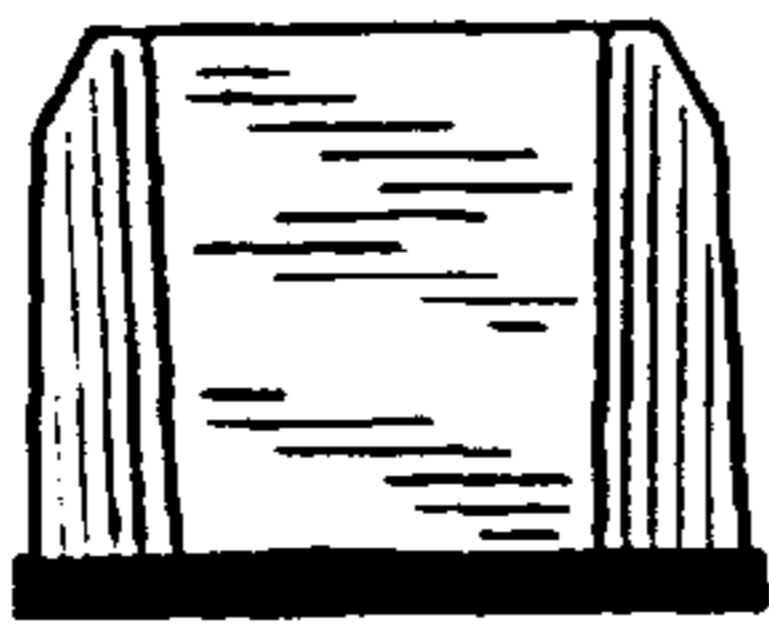


FIG. 5

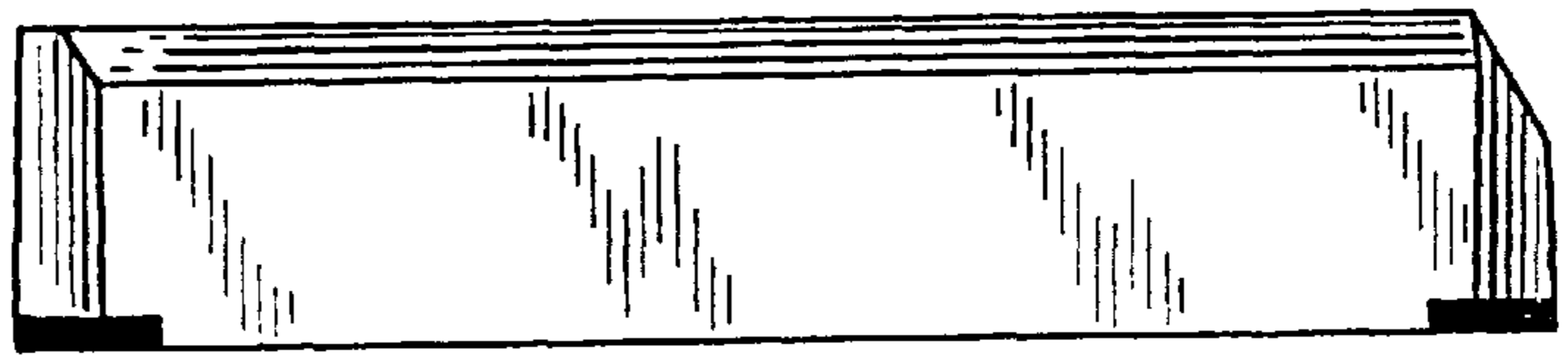


FIG. 1

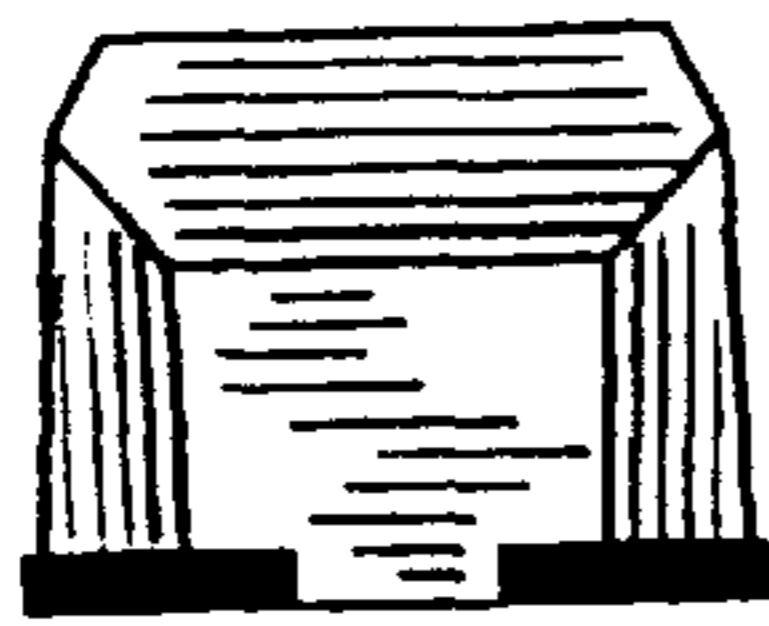


FIG. 6

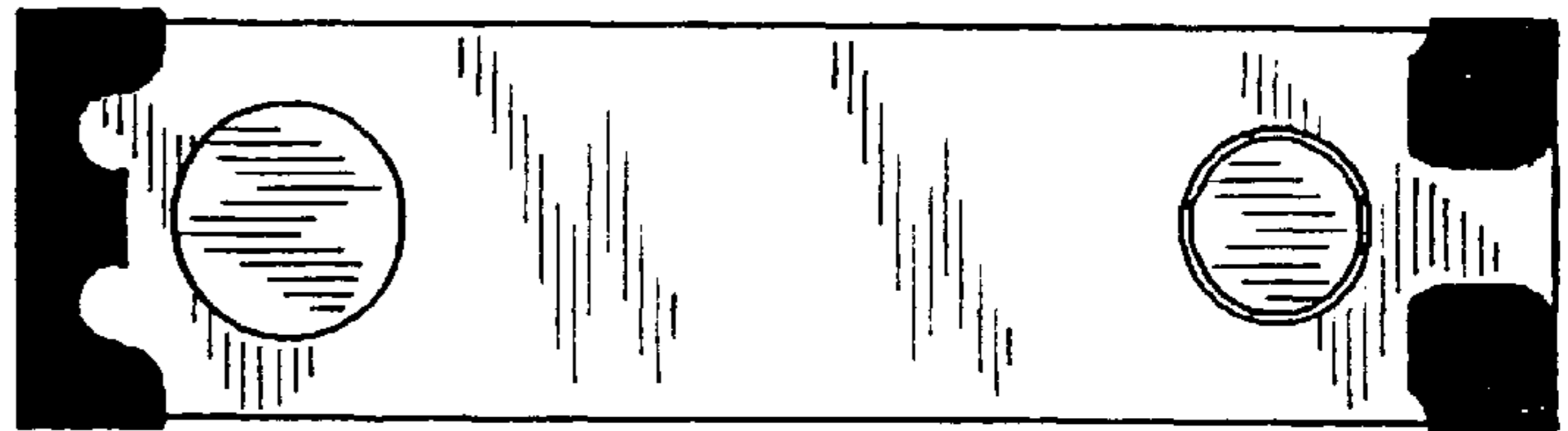


FIG. 4

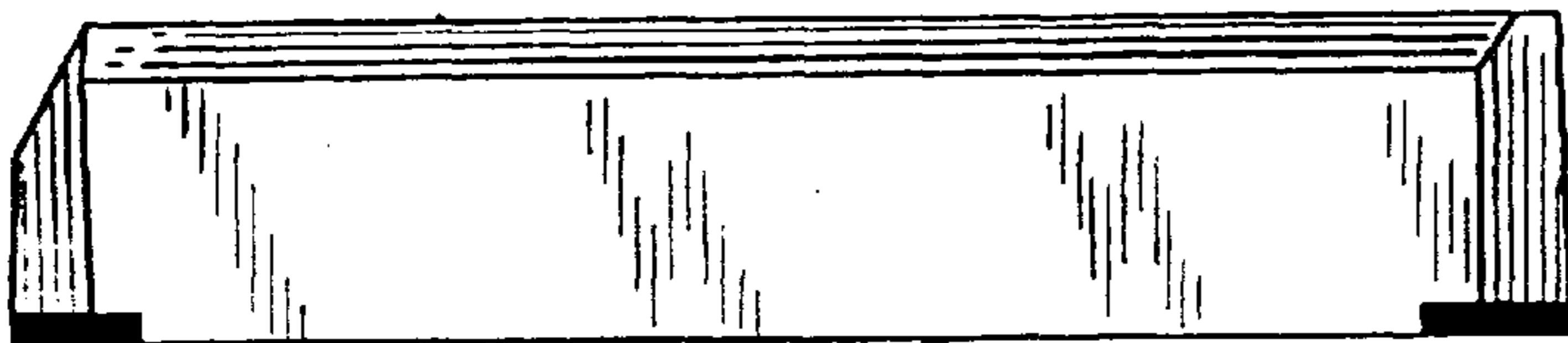


FIG. 2