



US00D331102S

United States Patent [19]

[11] Patent Number: **Des. 331,102**

Rademaker

[45] Date of Patent: **** Nov. 17, 1992**

[54] **COMBINED CEILING DIFFUSER AND AIR DEFLECTOR PENDULUM FOR PROVIDING DIFFERENT AIR FLOW PATTERNS FOR HEATING AND COOLING**

[75] Inventor: **Johan K. Rademaker**, West Olive, Mich.

[73] Assignee: **Hart & Cooley, Inc.**, Holland, Mich.

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

[21] Appl. No.: **301,255**

[22] Filed: **Jan. 23, 1989**

[52] U.S. Cl. **D23/388**

[58] Field of Search **D23/393, 392, 387, 390, D23/388, 391, 371, 370; 98/40.11**

[56] **References Cited**

U.S. PATENT DOCUMENTS

Re. 25,216	8/1962	Kennedy	408/95
Re. 30,953	6/1982	Vance et al.	98/40.11
902,509	10/1908	Speer	98/42.16
2,019,246	8/1933	Bissonnette	98/115.1
2,396,025	3/1946	Seid	98/40.25
2,938,449	5/1960	Newell, Jr. et al.	98/40.19
3,264,972	8/1966	Averill et al.	98/40.11
3,688,477	9/1972	Coward, Jr.	55/418
3,765,316	10/1973	Skoch	98/2
3,948,154	4/1976	Asakai et al.	98/40.05
4,258,616	3/1981	Zeller et al.	98/40.16
4,380,188	4/1983	Nichols	98/40.11
4,497,241	2/1985	Ohkata	98/40.25
4,515,069	5/1985	Kline et al.	98/40.17
4,535,932	8/1985	Herb	236/49.5
4,570,850	2/1986	McDermott	236/49.5
4,625,629	12/1986	Bryans	98/40.17
4,815,934	3/1989	Rademaker	98/40.11

Primary Examiner—Wallace R. Burke
Assistant Examiner—Lisa Lichtenstein
Attorney, Agent, or Firm—Varnum, Riddering, Schmidt & Howlett

[57] **CLAIM**

The ornamental design for a combined ceiling diffuser and air deflector pendulum for providing different air

flow patterns for heating and cooling, as shown and described.

DESCRIPTION

FIG. 1 is a top perspective view of a combined ceiling diffuser and air deflector pendulum for providing differing air flow patterns for heating and cooling showing my new design, with the air deflector pendulum in position for heating;

FIG. 2 is a top plan view thereof, with the air deflector pendulum in position for cooling;

FIG. 3 is a top plan view thereof, showing the air deflector pendulum in position for heating;

FIG. 4 is a front elevation view thereof, showing the air deflector pendulum in position for heating;

FIG. 5 is a left side elevation view thereof, showing the air deflector pendulum in position for heating;

FIG. 6 is a right side elevation view thereof, showing the air deflector pendulum in position for heating;

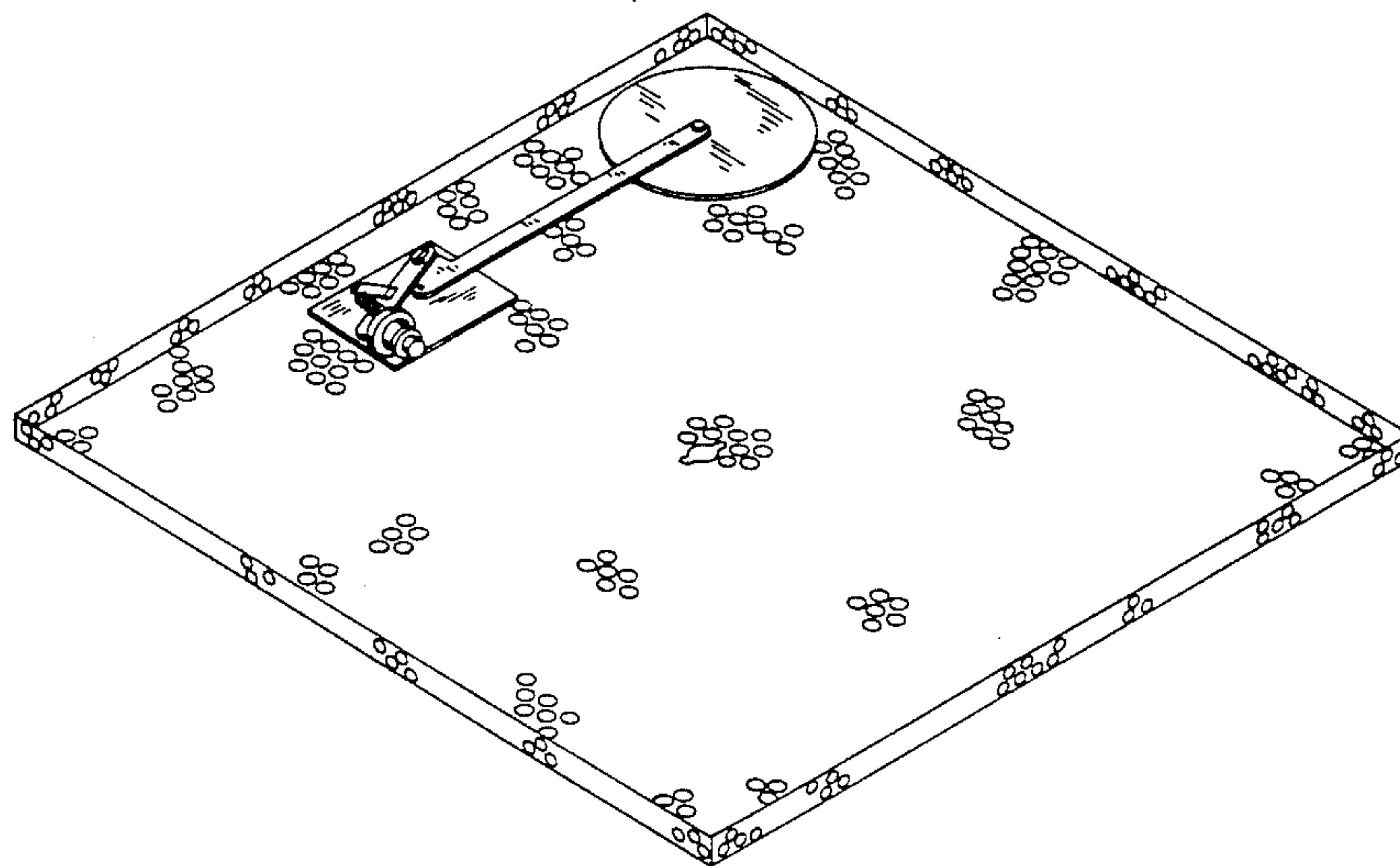
FIG. 7 is a bottom plan view thereof, with the air deflector pendulum in position for heating;

FIG. 8 is a front elevation view thereof, showing the air deflector pendulum in position for heating, with a portion of the air deflector screen lip removed to more fully show the air deflector pendulum;

FIG. 9 is a left side elevation view thereof, showing the air deflector pendulum in position for heating, with a portion of the air deflector screen lip removed to more fully show the air deflector pendulum;

FIG. 10 is a right side elevation view thereof, showing the air deflector pendulum in position for heating, with a portion of the air deflector screen lip removed to more fully show the air deflector pendulum; and,

FIG. 11 is a top perspective view of a combined ceiling diffuser and air deflector pendulum for providing differing air flow patterns for heating and cooling, showing a second embodiment of my new design, with the air deflector pendulum in position for heating, the only difference from the first embodiment residing in the rectangular appearance of the air deflector pendulum. The pattern of holes shown partially for convenience of illustration in FIGS. 1-11 is understood to extend along the entire surface of the ceiling diffuser.



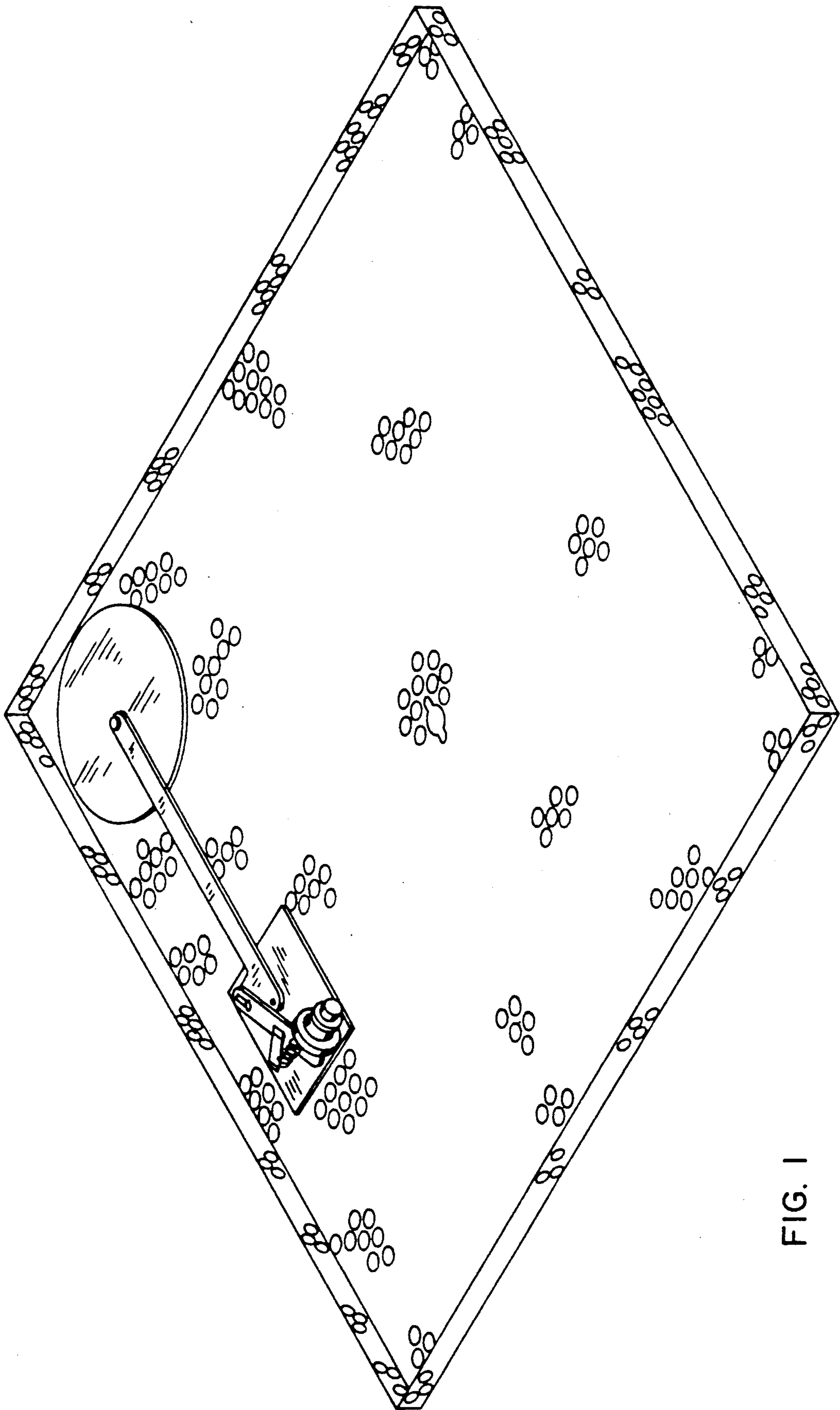
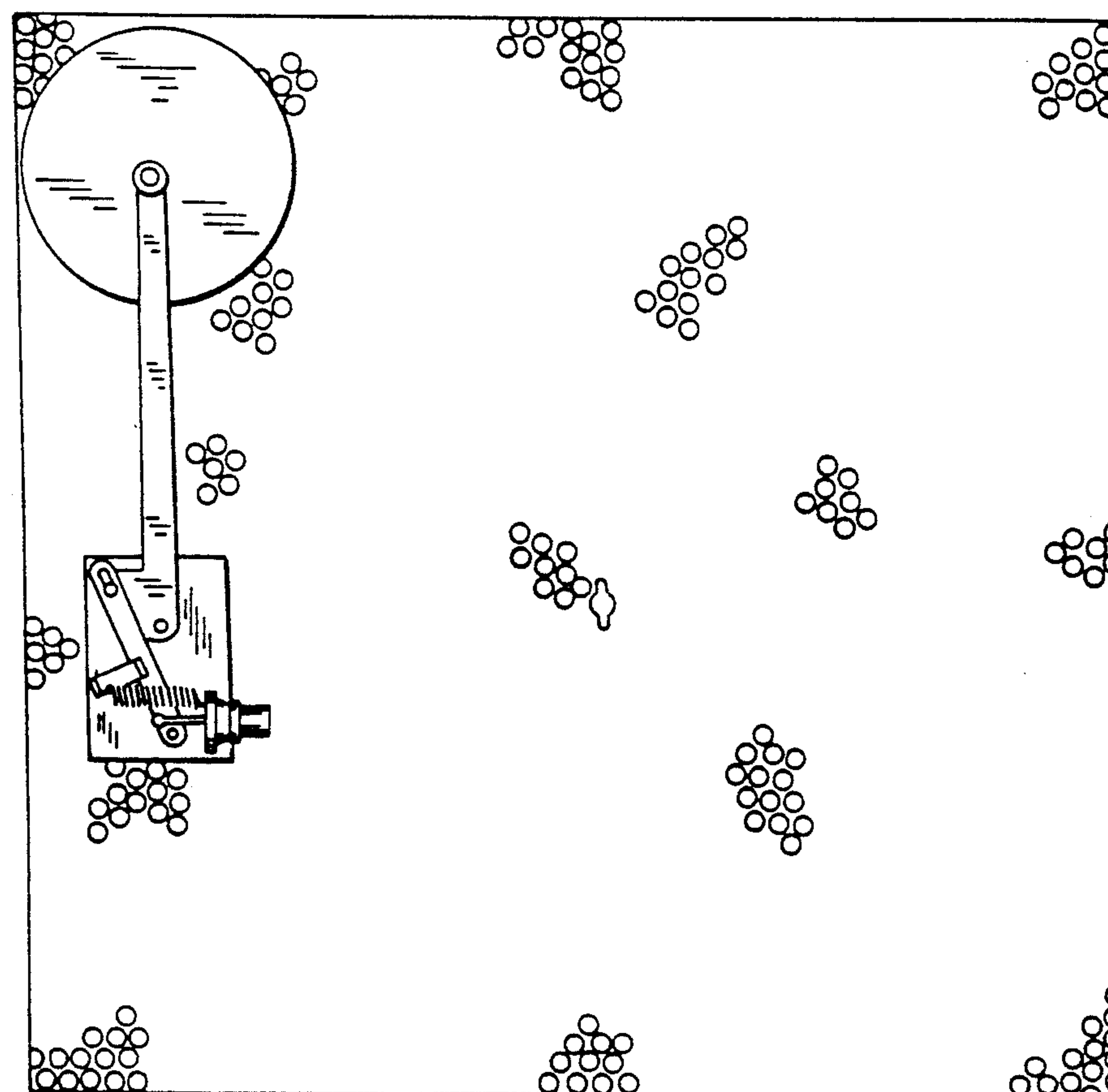
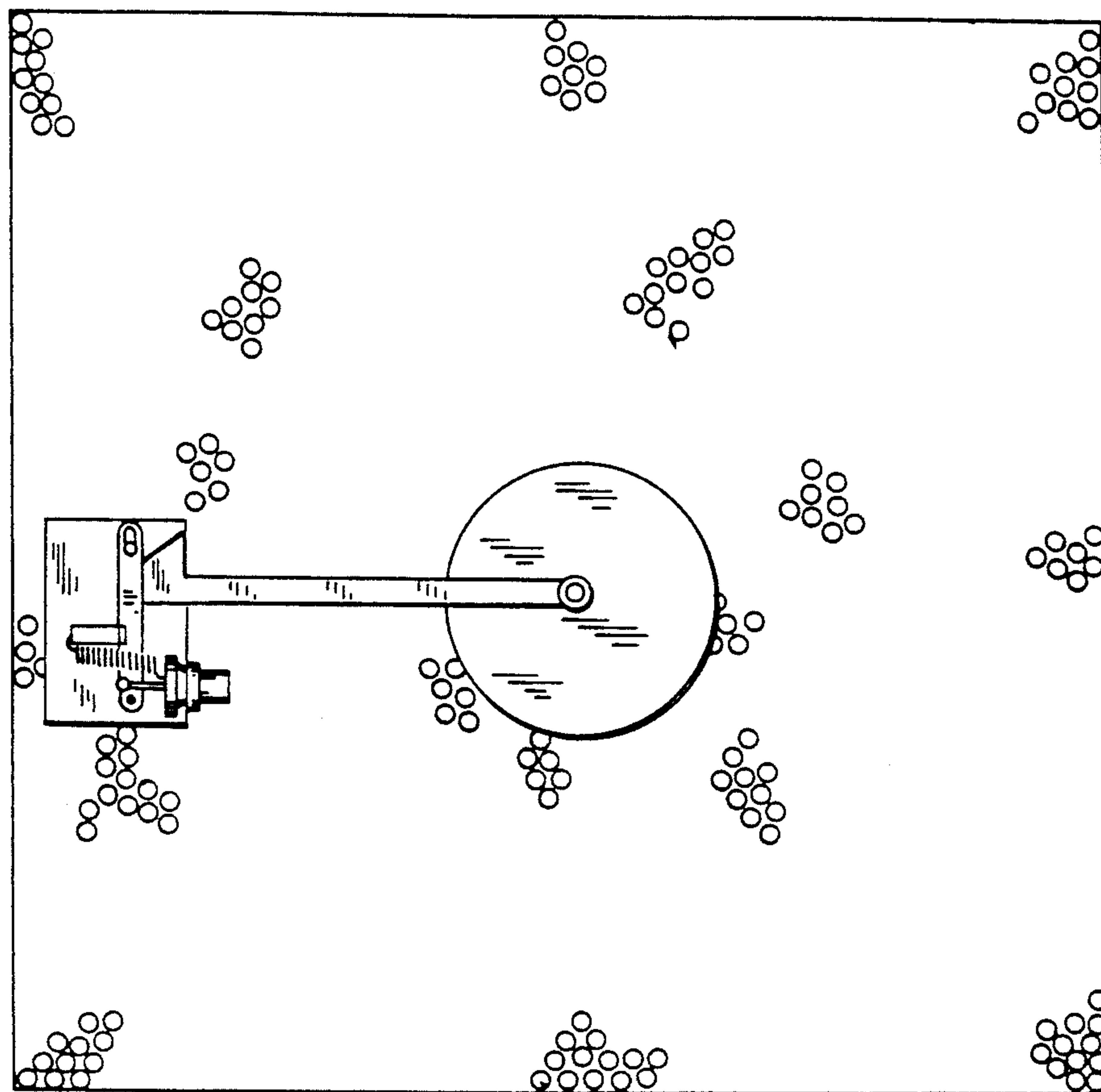


FIG. 1



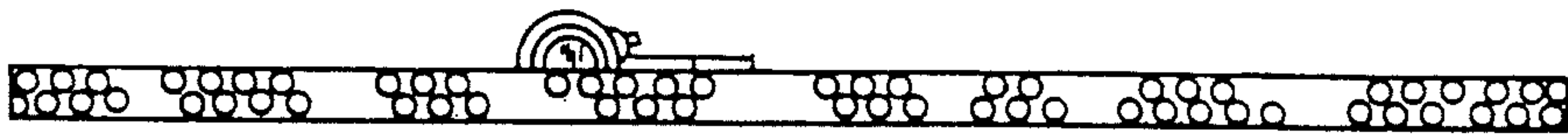


FIG. 4

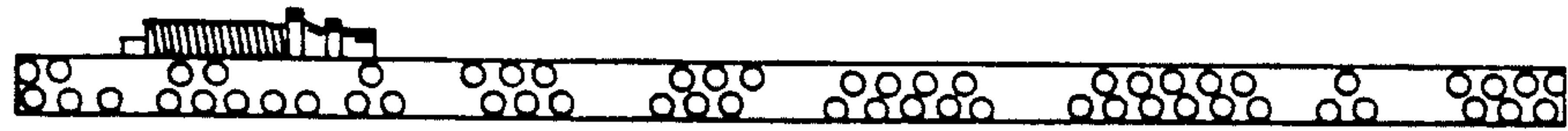


FIG. 5

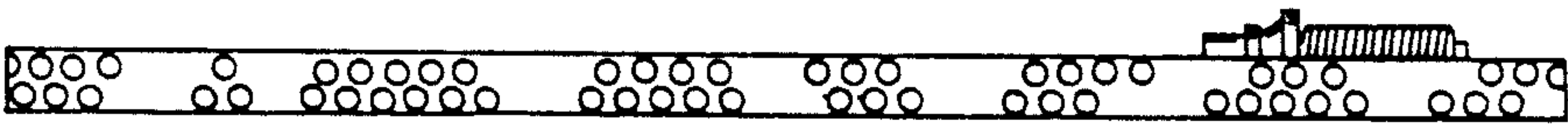


FIG. 6

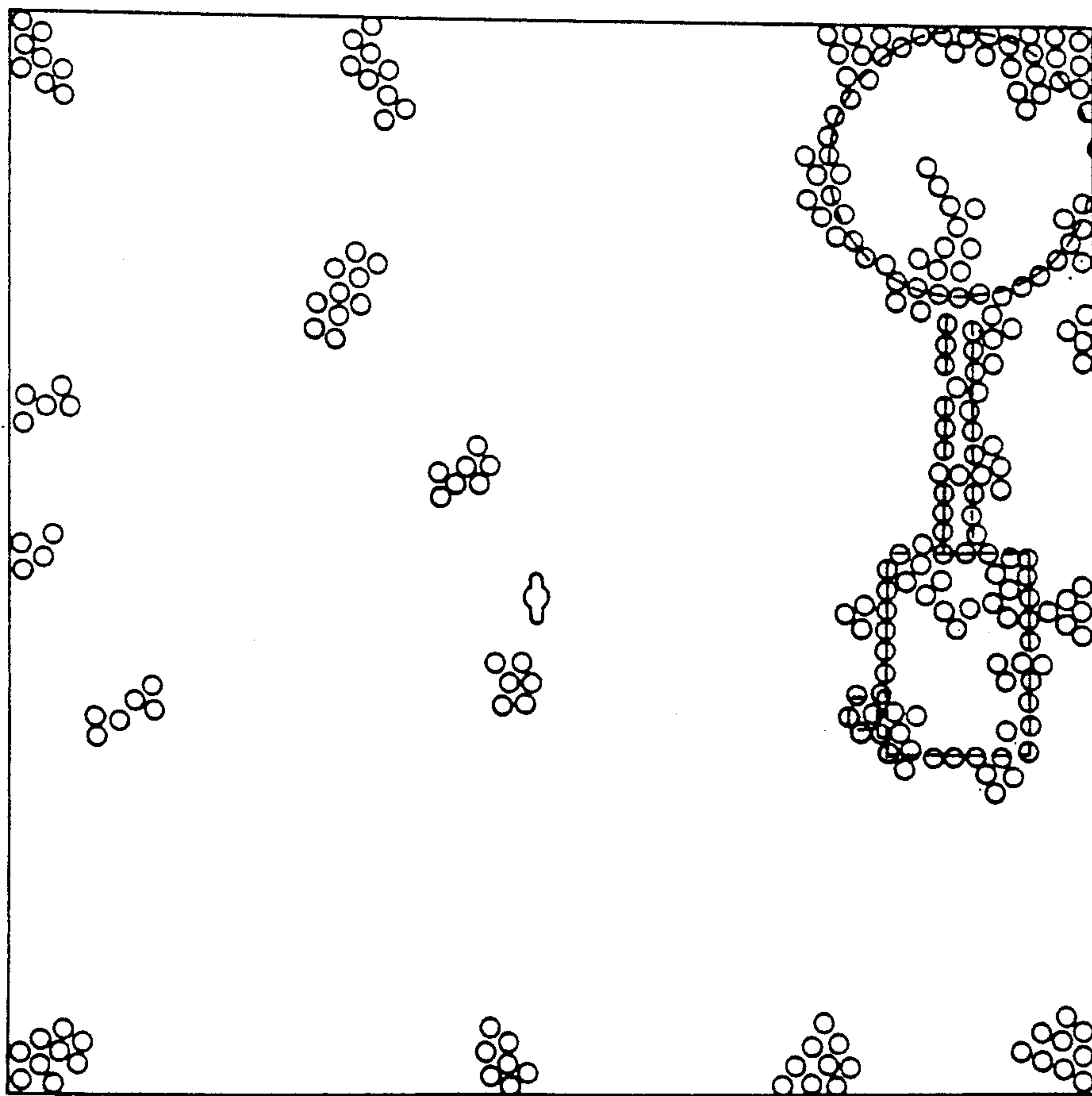


FIG. 7



FIG. 8

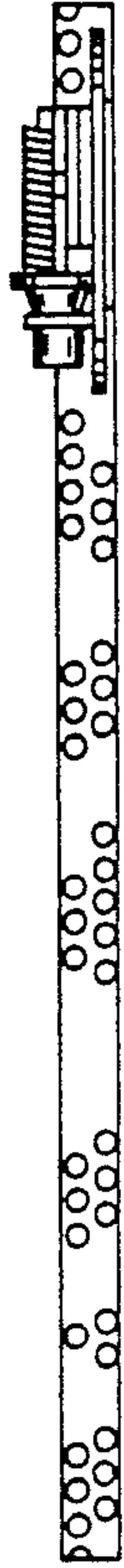


FIG. 10

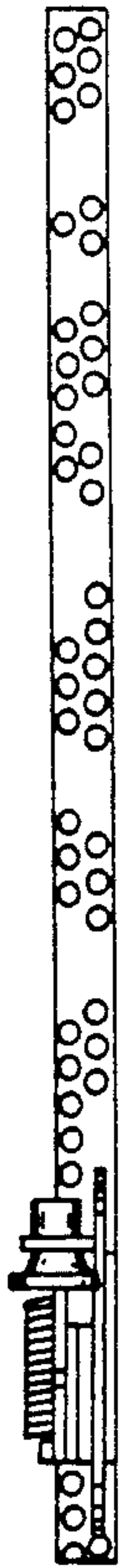


FIG. 9

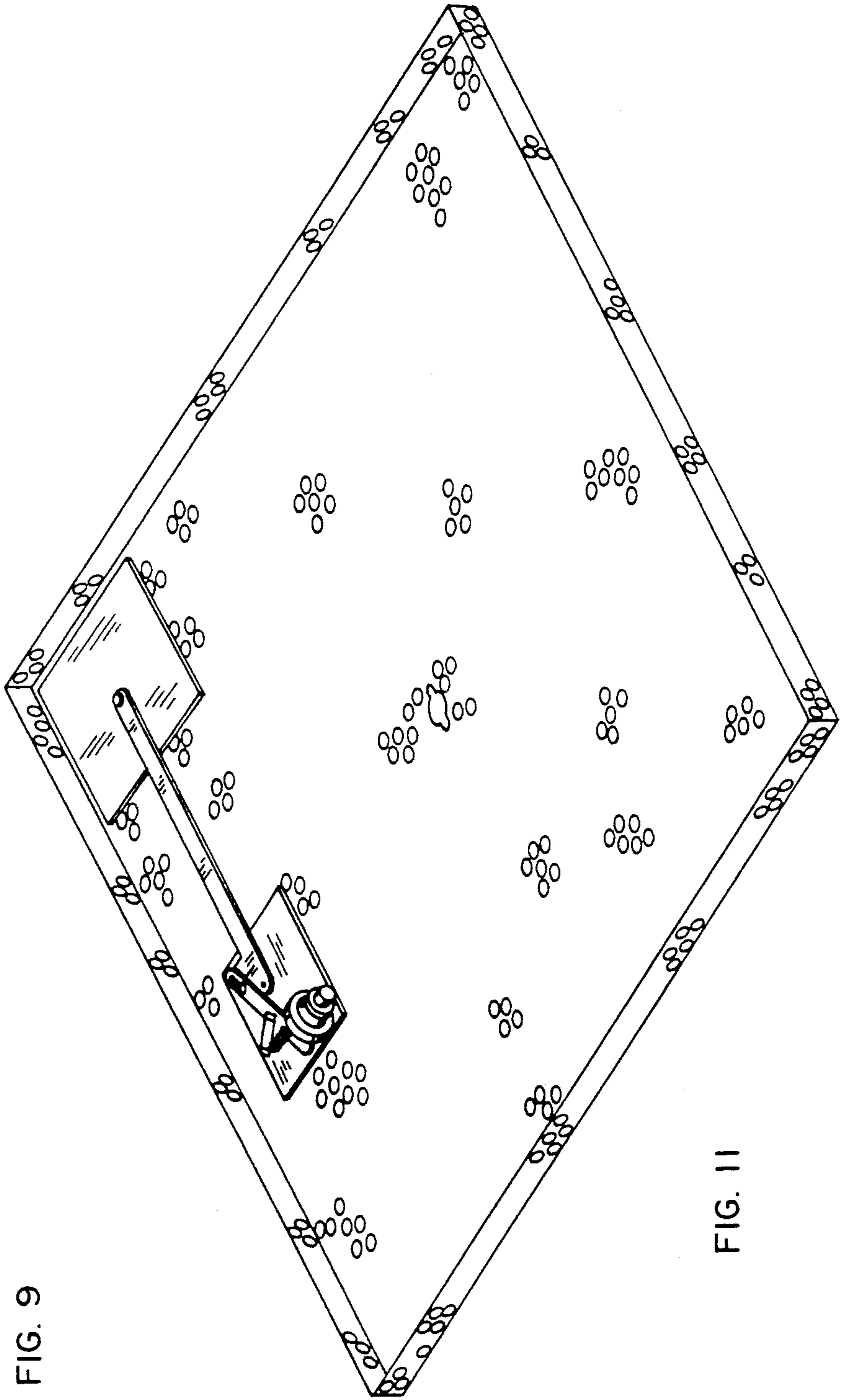


FIG. 11