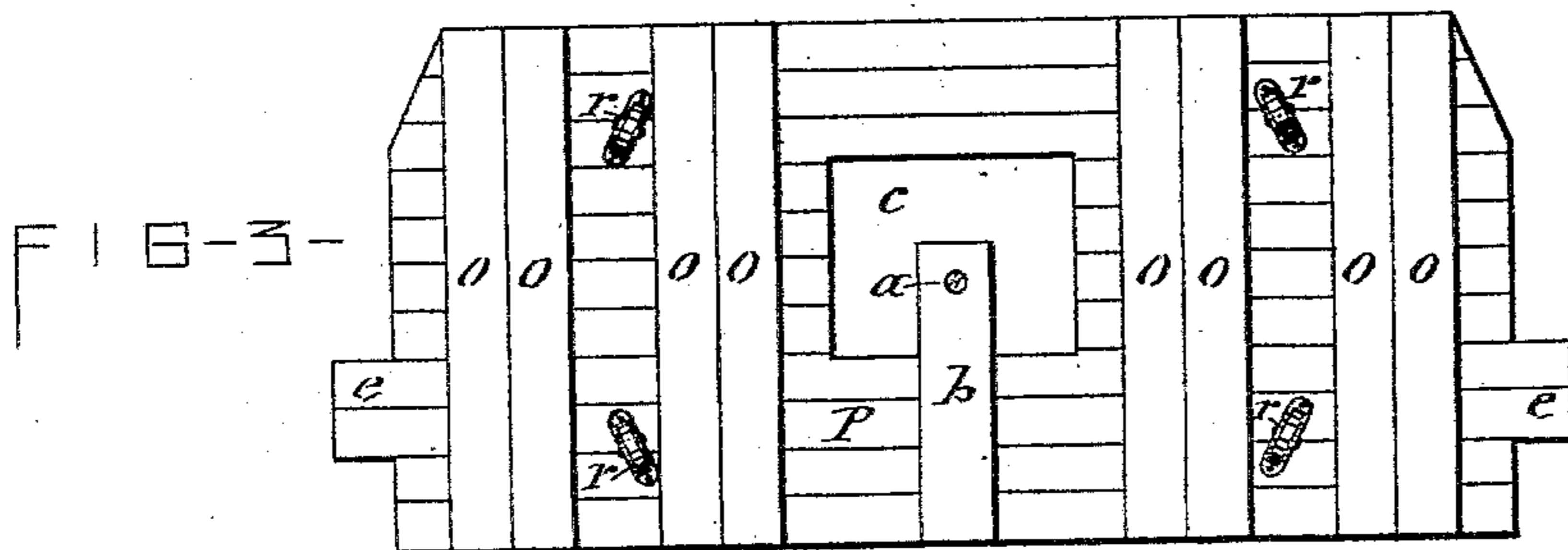
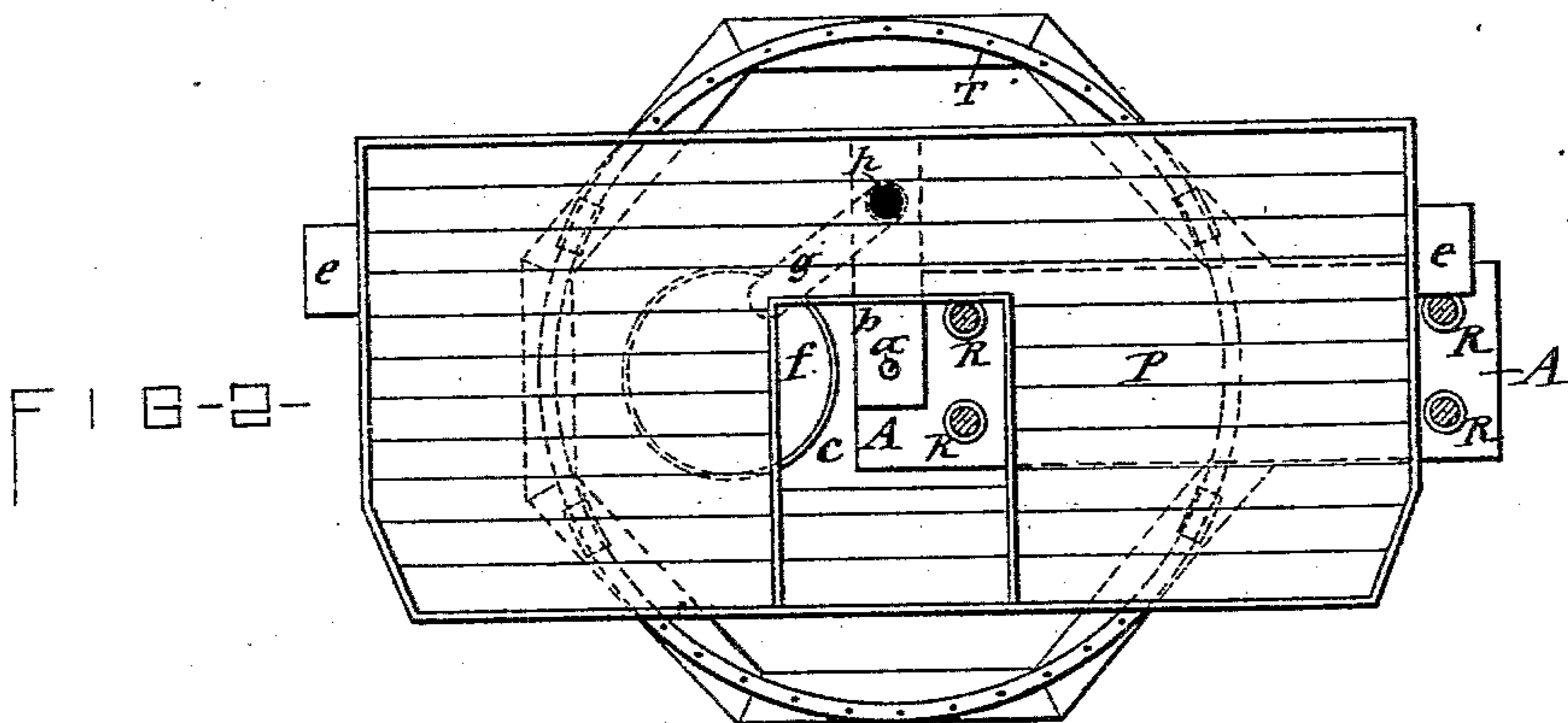
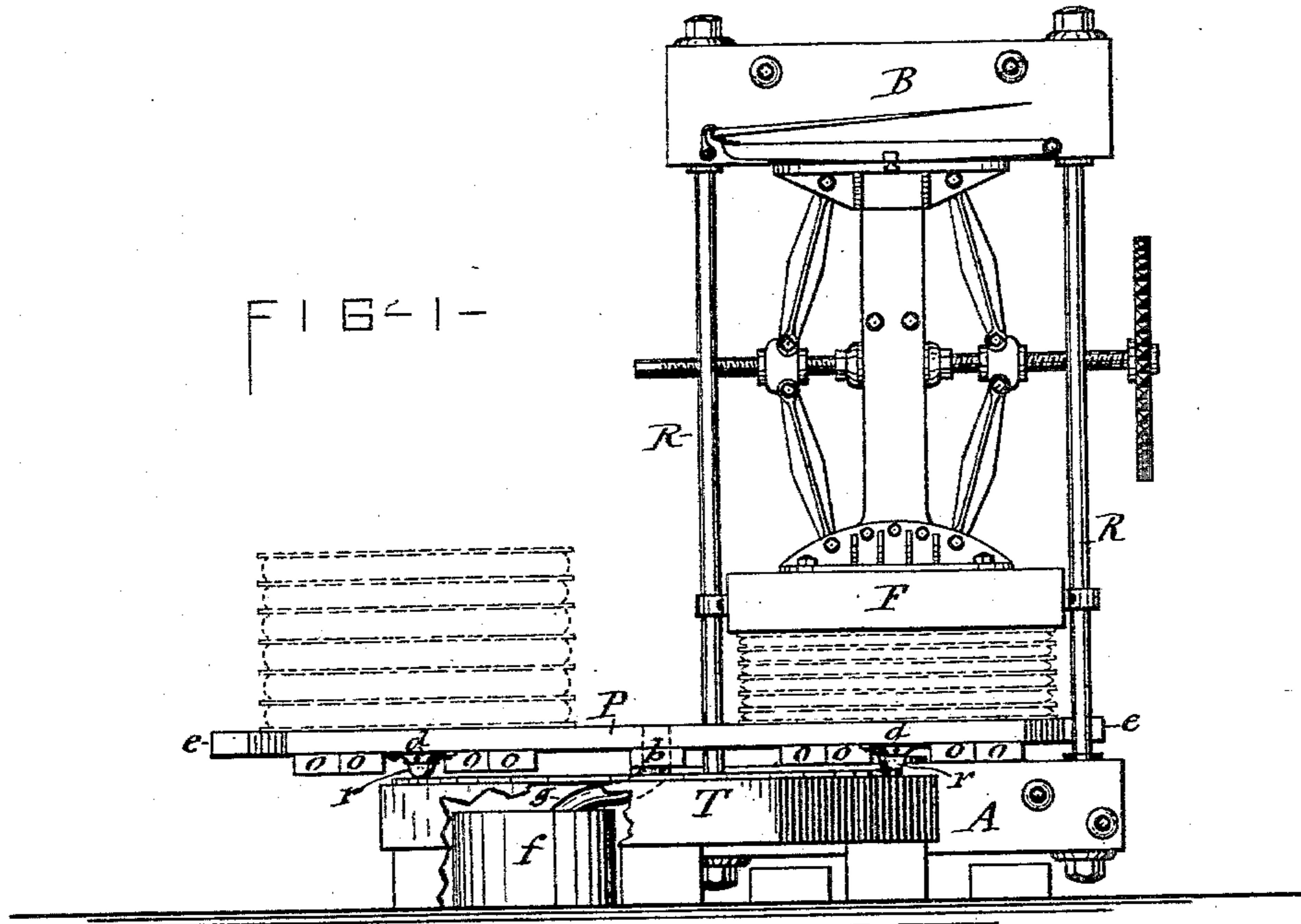


(No Model.)

R. E. BOSCHERT.
PRESS.

No. 319,185.

Patented June 2, 1885.



ATTEST—
Wm E. Raymond
C. Bendixon

INVENTOR—
Rufus E. Boschert
per Wm. L. Lasswell
Att'y

UNITED STATES PATENT OFFICE.

RUFUS E. BOSCHERT, OF SYRACUSE, NEW YORK.

PRESS.

SPECIFICATION forming part of Letters Patent No. 319,185, dated June 2, 1885.

Application filed March 25, 1885. (No model.)

To all whom it may concern:

Be it known that I, RUFUS E. BOSCHERT, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and
5 useful Improvements in Presses, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to platforms which
10 are arranged to traverse across the press-bed and have a capacity of carrying a tier of cheeses at each end, so that the pomace may be placed upon one end of the platform, while
15 under the follower to receive the pressure of the press.

The invention has also reference to that class of reversible platforms which are pivoted at or near one end of the press-bed.

20 The object of the invention is to simplify the construction of the platform so as to admit of a ready application of the same to a press, and also to render said platform strong, durable, convenient, and efficient in its operation.
25

In the accompanying drawings, Figure 1 is a front elevation of a press provided with my improvements. Fig. 2 is a plan view of the same, and Fig. 3 is an inverted plan view of
30 the platform.

Similar letters of reference indicate corresponding parts.

A represents the bed or foot block of an upright press, which foot-block is connected with
35 the head-block B by tie-rods R R, the pressing mechanism being interposed between said foot-block and head-block to exert the pressure against the head-block and the substance placed between the follower F and foot-block
40 or press-bed.

T represents a circular track arranged around one end of the press-bed or foot-block A, the center of the circle formed by the track being located outside of the tie-rods R R, as
45 shown at *a* in Fig. 2 of the drawings. This circular track is composed of a section which terminates at opposite sides of the press-bed, and is secured stationary to the floor, and a segmental section, which extends across the
50 press-bed, is attached thereto so as to be carried thereby and raise and lower with it during the operation of the press, the raising of

the press-bed, and in fact of the entire press, being due to the following facts: When the platform is turned to bring the pomace under
55 the follower and before the latter is brought to bear on the pomace, the press rests on the floor, and the track-section of the press-bed is even with that part of the track which is supported on the floor and is stationary. The
60 platform being supported by its rollers *r r* on the stationary part of the track at opposite sides of the press leaves the platform without any bearing on the press-bed. In bringing
65 the follower to press on the pomace the toggle-levers which operate the follower exert an upward pressure on the head-block B and a downward pressure on the platform, which
70 latter transmits the pressure to the stationary track supporting the platform, as aforesaid. As the pressure increases the resistance of the
75 stationary track causes the toggle-levers to push upward against the head-block, and inasmuch as the latter is connected with the foot-block or press-bed by the rods R R, and the
80 press-bed is clear of the platform and free from pressure, the entire press is lifted by the resistance of the stationary track supporting the platform. The pomace thus receives only the
85 weight of the press until the press-bed is drawn up against the under side of the platform, as illustrated in Fig. 1 of the drawings. After that the downward pressure is resisted
90 by the press-bed, and the pomace receives the full effect of the press. When the pressure is
95 relaxed and the follower raised, the press-bed descends again to the floor, and then the track-section which is mounted on the press-bed is in position to allow the rollers of the platform to traverse it.

P denotes the duplex platform, which has a capacity of carrying two tiers of pomace or cheeses at opposite sides of the center of its length, as represented in Fig. 1 of the drawings. Beams or planks O O are secured across
100 the under side of the platform for the purpose of stiffening the same and preventing its deflection when loaded with pomace. This platform I pivot at its center on a gudgeon or stud-pin, *a*, secured to the end of the press-bed at a point coinciding with the center of the circle described by the stationary track T, the pivotal connection of the platform being made by a plank or beam, *b*, secured to the

under side of the platform in such a position as to prevent its collision with the tie-rods R R when swinging the platform to carry opposite ends thereof alternately over the press-bed, said beam *b* being provided with an eye into which the gudgeon *a* projects.

An aperture, *c*, of proper size is made in the platform to allow the same to turn freely about the two tie-rods R R near the pivot *a*.

r r denote rollers interposed between the platform P and track T, and preferably journaled in brackets or suitable bearings, *d d*, attached to the under side of the platform directly over the stationary track upon which said rollers travel.

The platform is designed to be turned alternately in opposite directions in carrying the ends thereof successively over the press-bed, and in order to arrest the rotation of the platform at a proper time to bring the tier of pomace into the requisite position to receive the pressure of the follower F, I provide the platform with stops *e e*, consisting of projections on the ends of the platform, which projections collide with the tie-rods R R at the end of the press opposite the end on which the platform is pivoted.

The platform is provided with a flange or ledge around its edge and around the opening *c* to prevent the escape of the expressed substance thereat.

Underneath the platform is placed a receptacle, *f*, for the drainage of aforesaid expressed substance, which is conducted thereto by a hose or flexible conduit, *g*, connected with a discharge-opening, *h*, in the platform *p*, and having its free end in the receptacle *f*, the flexibility of the conduit allowing it to accommodate itself to the changes of its position in relation to the receptacle during the revolution of the platform.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the press, of a circular track arranged around a center lo-

cated at one end of the press-bed, said track being composed of a section terminating at opposite sides of the press-bed, and secured stationary to the floor, and a segmental section secured to and carried by the press-bed, a duplex platform pivoted at its center in the center of the track, and rollers journaled in bearings on the under side of the platform, all constructed and combined substantially in the manner specified and shown.

2. In combination, with the press, the circular track arranged stationary around one end of the press-bed and extending across the central portion of the same, the platform pivoted at its center to the end of the press, rollers underneath the platform, and stops arranged to arrest the rotation of the platform in bringing alternately opposite ends of the platform over the press-bed, substantially as set forth.

3. In combination with the press having vertical tie-rods at opposite ends, and the circular track arranged around one end of the press-bed, the platform pivoted at its center to one end of the press-bed and provided at its two ends with projections adapted to collide with the tie-rods at the opposite end of the press-bed during the rotation of the platform, substantially as described and shown, for the purpose set forth.

4. In combination with the circular track, press-bed, and gudgeon *a* on one end of said press-bed, the platform formed with the apertures *c*, and the plank or beam *b*, secured to the platform, and provided with an eye by which the platform is pivoted on the gudgeon *a*, substantially as described and shown.

In testimony whereof I have hereunto signed my name and affixed my seal, in the presence of two attesting witnesses, at Syracuse, in the county of Onondaga, in the State of New York, this 21st day of March, 1885.

RUFUS E. BOSCHERT. [L. s.]

Witnesses:

FREDERICK H. GIBBS,
WM. C. RAYMOND.