

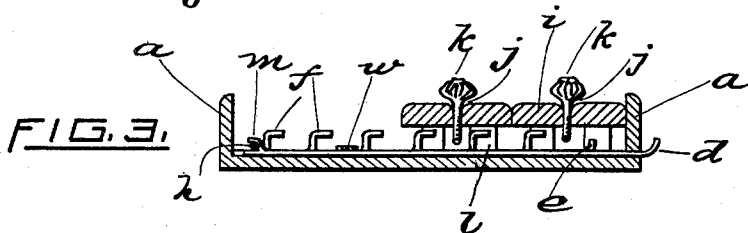
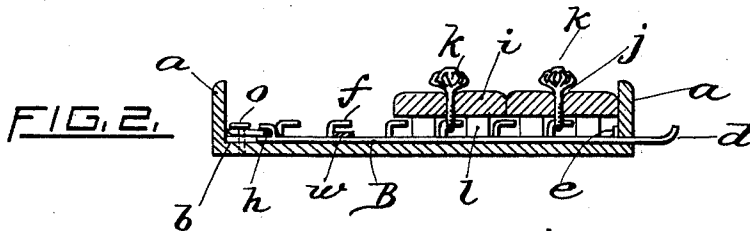
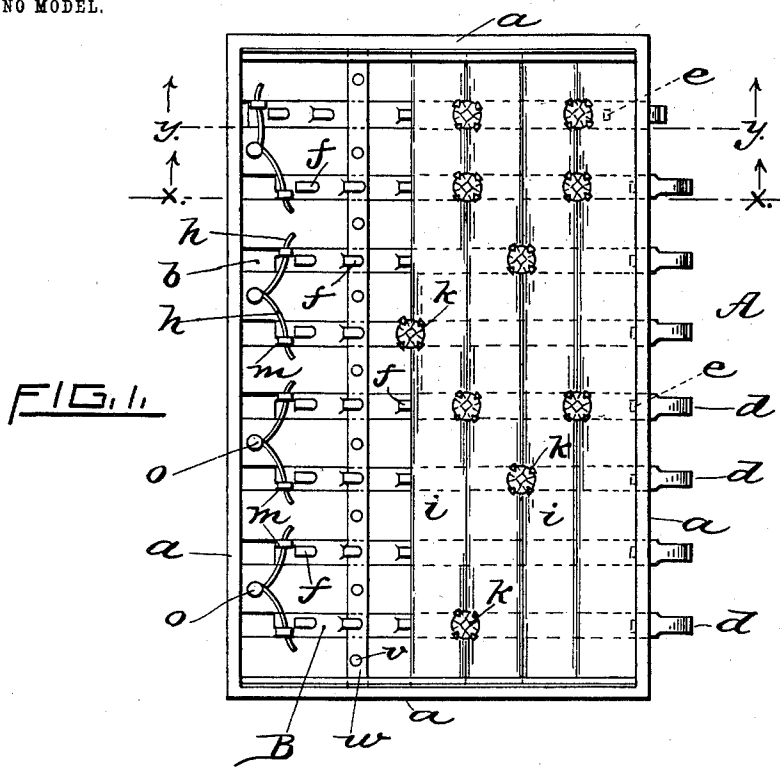
No. 732,089.

PATENTED JUNE 30, 1903.

B. LENZEN.
RING TRAY.

APPLICATION FILED APR. 22, 1903.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

BERTRAM LENZEN, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR OF ONE-HALF TO GEORGE C. RUECKERT, OF PROVIDENCE, RHODE ISLAND.

RING-TRAY.

SPECIFICATION forming part of Letters Patent No. 732,089, dated June 30, 1903.

Application filed April 22, 1903. Serial No. 153,796. (No model.)

To all whom it may concern:

Be it known that I, BERTRAM LENZEN, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Ring-Trays, of which the following is a specification.

My invention relates to that class of ring-trays which comprise spring-actuated locking-strips, and is designed to overcome some of the disadvantages characteristic to structures of this class. The ordinary tray of this type is shown in a former patent to me, No. 710,475. In such a structure it is found that the warping of the floor and contraction of the metallic locking-strips tend in time to displace the latter from their channels. The use of a long transverse coiled spring for tensioning the transverse strips induces such an unequal strain that the strips do not always perform their functions.

To the elimination of the above defects and to secure additional facility of action my invention is primarily directed.

In the drawings herewith, wherein like reference-letters indicate like parts, Figure 1 is a plan view of my improved tray with a number of the cushion-strips removed; Fig. 2, a vertical transverse section of the tray on line *xx* of Fig. 1, and Fig. 3 a similar section of the same on line *yy* of Fig. 1.

My tray consists of a rectangular body A, with upright walls *a*. The floor thereof has parallel channels *b*, in which slide metallic locking-strips B, shorter than the width of the tray, to allow longitudinal movement therein of the locking-strips, whose outer ends traverse the front wall of the box and form handles *d*. Projections *e* upon the locking-strips near the inner face of the front wall prevent excessive outward movement of the strips. Each of the flat metallic locking-strips B is provided with a series of prongs *f*, whose points are directed toward the handles *d*. One or more retaining-strips *w*, fixed in the tray-bottom by pins *v* or other means and transversely disposed in relation to the locking-strips, retain the latter in their respective channels.

A series of contiguous fabric-covered bars

z, with intermediate spaces *j* to receive the rings *k*, rest upon the bottom of the box at right angles to the direction of the locking-strips. These bars are transversely traversed by channels *l* in their lower faces to allow passage therethrough of the prongs *f* when the locking-strip is operated.

A length of spring-wire is looped at its center to form spring-arms *h*, and the looped portion is fixed to the floor of the tray near its back and intermediate the channels *b* by pins or screws *o*. As these spring-arms are intended to tension the locking-strips, the latter are provided at their rear with rearwardly-directed hooks *m*, each of which engages an arm *h*.

The operation of my device is as follows: When it is desired to insert or withdraw a ring, the locking-strip whose prong corresponds with the ring is pressed rearwardly against the tension of the arm *h*.

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

1. In a ring-tray, the combination with the floor of locking-strips provided with engaging prongs and slidably mounted in the floor, a series of contiguous bars above and disposed at right angles to the locking-strips, posts in the floor intermediate the locking-strips, spring-arms upon the posts adapted to longitudinally tension the locking-strips, and means upon the locking-strips for engaging the spring-arms as described.

2. In a ring-tray, the combination with the floor of channels in the floor, slidable locking-strips provided with prongs and resting in the channels, a transverse strip fixed to the floor and above the locking-strips for retaining the latter in their channels, parallel contiguous bars above and at right angles to the locking-strips, stop-pins on the locking-strips, and spring means upon the floor adapted to force the locking-strips outward as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

BERTRAM LENZEN.

Witnesses:

HORATIO E. BELLOWES,
WILLIAM E. BROWN.