

(No Model.)

G. LINDER & C. FARNER.

BOX FASTENER.

No. 376,805.

Patented Jan. 24, 1888.

Fig. 1.

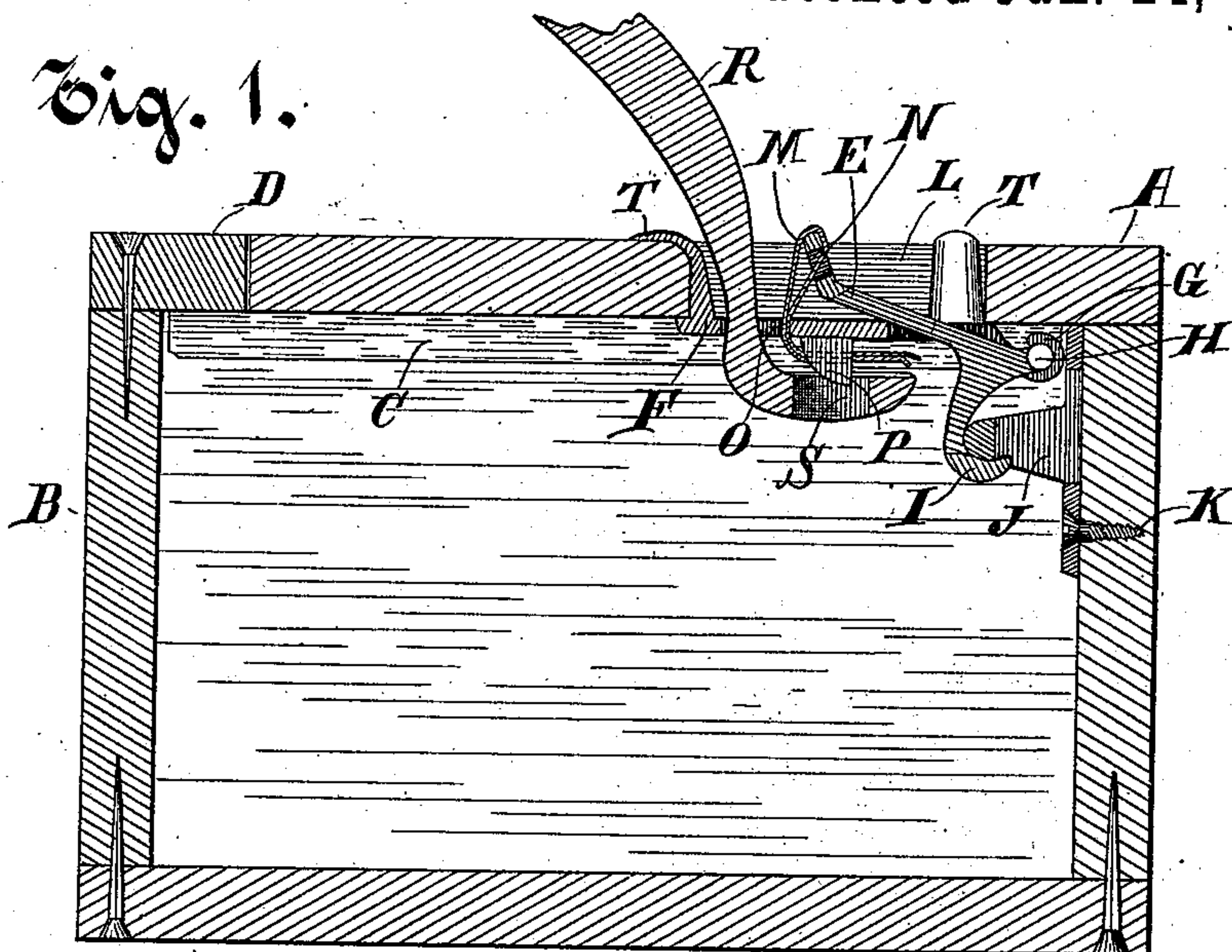


Fig. 2.

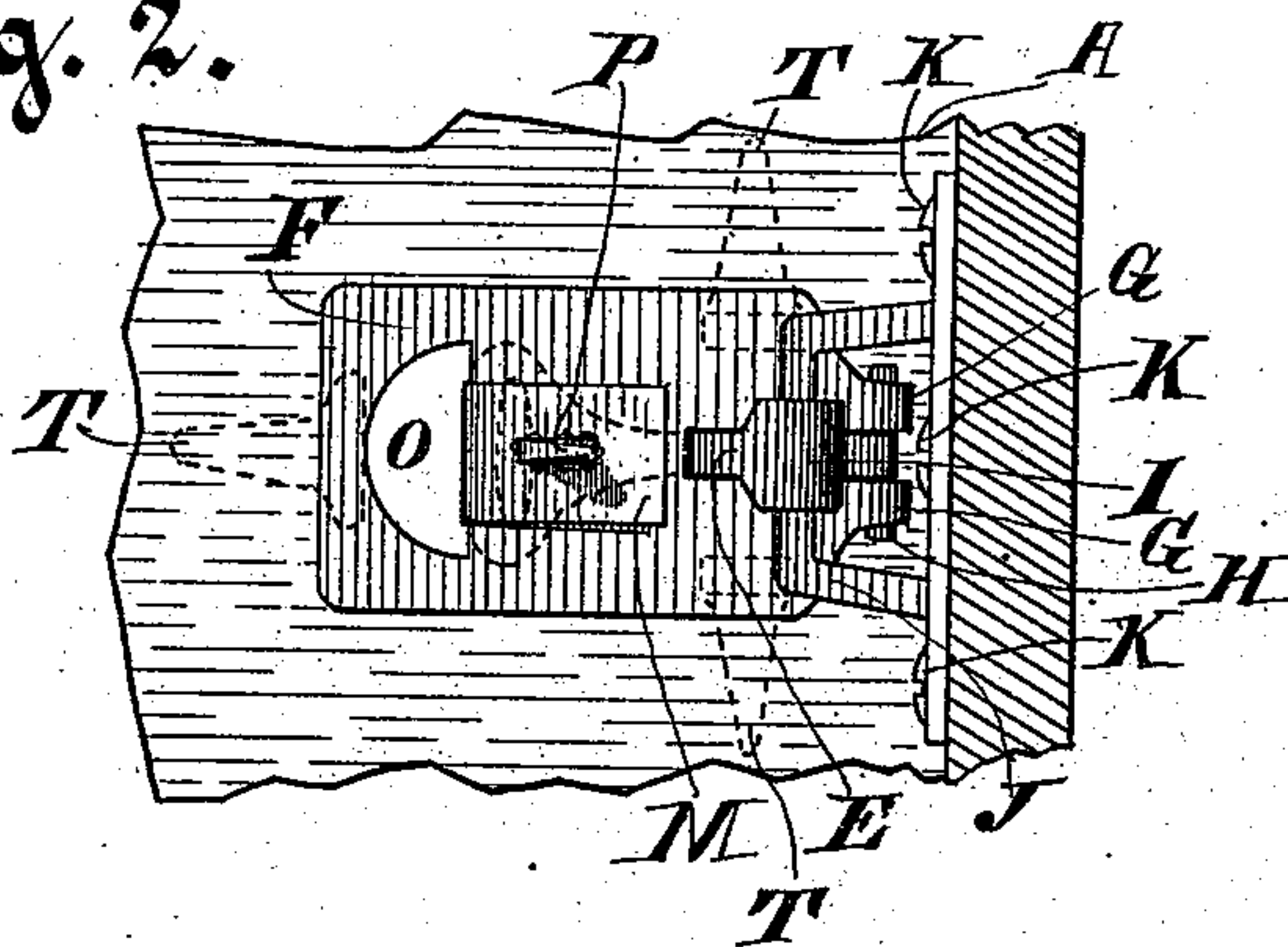


Fig. 3.

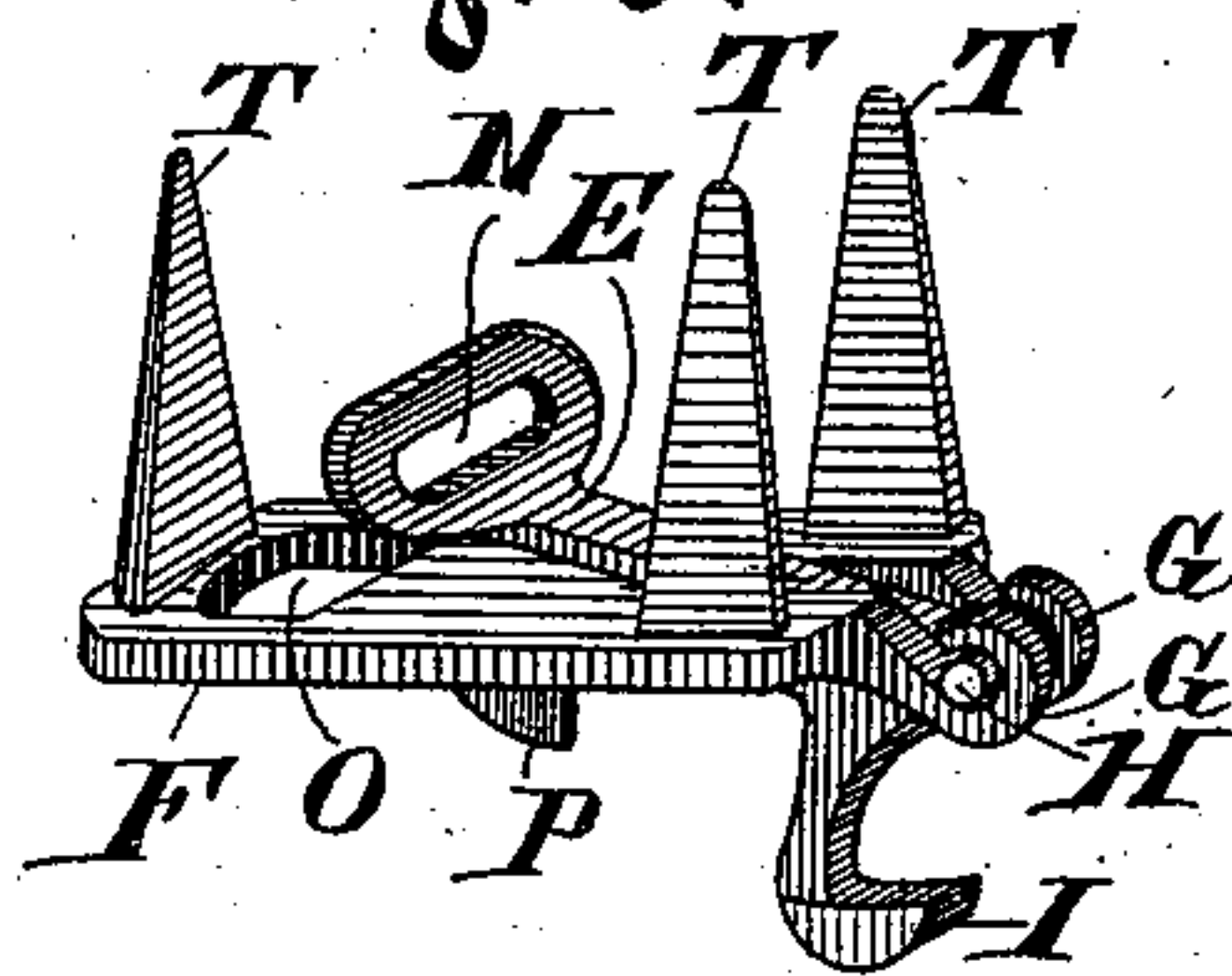
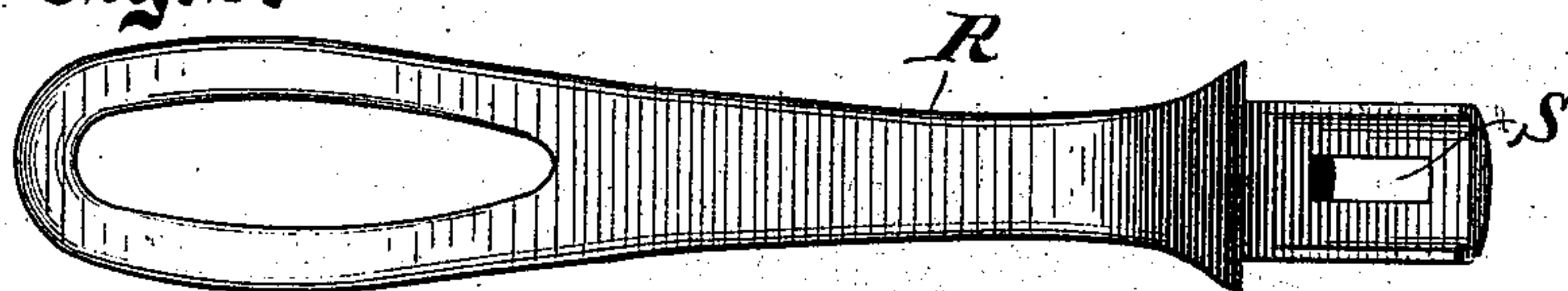


Fig. 4.



Fig. 5.



Witnesses.

W. H. Keeney,
Anna Faust.

Inventors.

George Linder
Conrad Farner

By Ennis & Benedict,
Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE LINDER AND CONRAD FARNER, OF MILWAUKEE, WISCONSIN.

BOX-FASTENER.

SPECIFICATION forming part of Letters Patent No. 376,805, dated January 24, 1888.

Application filed July 22, 1887. Serial No. 244,972. (No model.)

To all whom it may concern:

Be it known that we, GEORGE LINDER and CONRAD FARNER, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Box-Fasteners; and we do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in a combined box fastener and seal, and the same is also adapted for fastening and sealing the doors of cars, safes, &c.

The construction of our invention is explained by reference to the accompanying drawings, in which—

Figure 1 represents a longitudinal vertical section of our improved box-fastener attached to the cover of a beer-bottle case or a box or case of that class which is used for carrying packages of bottles. Fig. 2 represents a bottom view of our fastening device from the under side of the cover. Fig. 3 is a perspective view of the fastening hook and lever and the bracket by which the same is attached to the cover. Fig. 4 is a perspective view of a thin metallic seal by which the fastening device is sealed when locked. Fig. 5 represents a top view of a removable handle which is used in attaching the seal to the locking mechanism.

Like parts are represented by the same reference-letters throughout the several views.

A is the removable cover of the box, which is attached at one end to the box B, as shown upon the left in Fig. 1, by one or more retaining-cleats or cross-bars, C, which engage beneath the inward-projecting edge of the stationary piece D, and at the other end by our improved locking mechanism, consisting of the angular two-armed lever E, the lever-retaining bracket F, and the keeper J. The lever E is pivoted to the bracket F upon the lugs G G by pin H, and extends downward beneath the cover, and is provided at its lower end with a fastening-hook, I, which hook, when the cover is locked, engages in the stationary retaining-keeper J. The opposite end of the lever E extends upward through a slot in the bracket F, where it may be reached from the exterior of the box. The retaining-keeper J is rigidly af-

fixed to the box B by screws K. To permit of a number of boxes being piled one upon another without coming in contact with the locking mechanism, an aperture, L, is provided in the cover for the reception of the bracket F and lever E, whereby said locking mechanism, when secured in place in the locking position, is all located below the upper surface of the cover, as shown in Fig. 1. When securing the cover to the box, the ends of the cleats C, two of which are preferably used, one located at each end of the cover, are inserted beneath the cross-piece D, when the upper protruding end of the lever E is pressed downward, whereby the hook I is brought in beneath and engages against the lower surface of the keeper J, whereby the cover A is fastened to the box and the same cannot be withdrawn without first raising the lever E. When, however, it is desired to provide for securely locking the cover to the box, to prevent the same from being tampered with without detection, a metallic seal, M, is employed, by which said lever E is rigidly fastened in the locking position in such a manner that it cannot be disengaged from the outside of the box without first cutting and destroying said seal. The metallic seal M is, preparatory to being attached, first bent into the U shape shown in Fig. 4, when one of the opposing ends of the seal is inserted through the aperture N, formed in the protruding end of the lever E, as shown in Fig. 1, when the two parallel ends of the seal M are inserted through the aperture O of the bracket beneath the cover. The lower surface of the bracket F is provided with a downward-projecting pointed lug, P, which is forced through the lower inward-projecting ends of the metallic seal M by the action of the handle R, as shown in Fig. 1.

The method of fastening the seal is as follows: The seal being inserted through the aperture N of the lever E, from which it is suspended in a vertical position through the opening in the bracket F, the handle R is then inclined toward the right above the locking mechanism, when its lower end is inserted through the aperture O and pressed downward and toward the left in the position shown in Fig. 1, when the edge of the aperture L serves as a fulcrum to the handle R, whereby, as the upper end of the handle is pressed downward against the side of the aperture, the inner end of

the handle is thrown upward against said metallic seal, whereby the seal is forced upward against the point P, when said point perforates and enters the lower ends of the seal, as indicated in Figs. 1 and 2, and thus holds the lower ends of said seal securely in place. An aperture, S, is provided in the lower end of said handle for the reception of said point P, which point enters said aperture S as the ends of said seal are being forced by said lever up in contact with and around said point. The bracket F may, if desired, be secured to the inner surface of the cover A, beneath the aperture L, by screws; but we preferably secure it in place by the malleable fastening-prongs T T T, cast integral with the bracket F. The bracket F being first inserted beneath the cover in the aperture L, the prongs T are bent outward and over upon the exterior surface of the cover, thereby holding said bracket firmly in place.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a cover-retainer and seal for boxes and doors, the combination, with the cover or door, of a lever-retaining bracket, F, angular lever E, centrally pivoted to said bracket F upon the inner side of the cover or door and provided upon its inner end with the retaining-hook I and upon its outer end with a seal-retaining aperture, N, seal M, formed of U-shaped flexible metal, and adapted, when sealing the lock, to engage upon the downward-projecting lug P, downward-projecting lug P, formed integral with said bracket F, and cover-retaining bracket J, affixed to the inner walls of the inclosure and adapted to engage with the retaining-hook I of the lever E, substantially as and for the purpose specified.

2. In a cover-retainer for boxes and doors,

the combination of the cover A, provided with aperture L, bracket F, provided with retaining-prongs T, cast integral therewith and turned downward upon and engaging the upper outer surface of said cover upon the sides of said aperture L, a single angular two-armed lever, E, pivoted to said bracket F beneath the lower surface of the cover A, outturned retaining-hook I, and keeper J, rigidly affixed to the inner wall of the inclosing case or box and adapted to engage said outturned retaining-hook I, substantially as and for the purpose specified.

3. In a cover-fastener and seal, the combination of the bracket F, provided with downward-projecting seal-retaining lug P, lever E, centrally pivoted to said bracket and adapted to engage at its lower end when locked in a retaining-keeper and provided at its upper outer end with a seal-retaining aperture, N, seal M, suspended from said seal-retaining aperture and extending beneath the lower surface of said bracket F, and adapted to engage upon said seal-retaining lug P, and lever R, adapted when sealing said lock to extend downward or inward beneath the inner surface of said bracket F and against said metallic seal, whereby when said lever is inclined at its outer end away from said locking mechanism its inner end is brought in contact with and forces said seal against and around said seal-retaining lug P, all substantially as and for the purpose specified.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE LINDER.
CONRAD FARNER.

Witnesses:

JAS. B. ERWIN,
C. H. KEENEY.