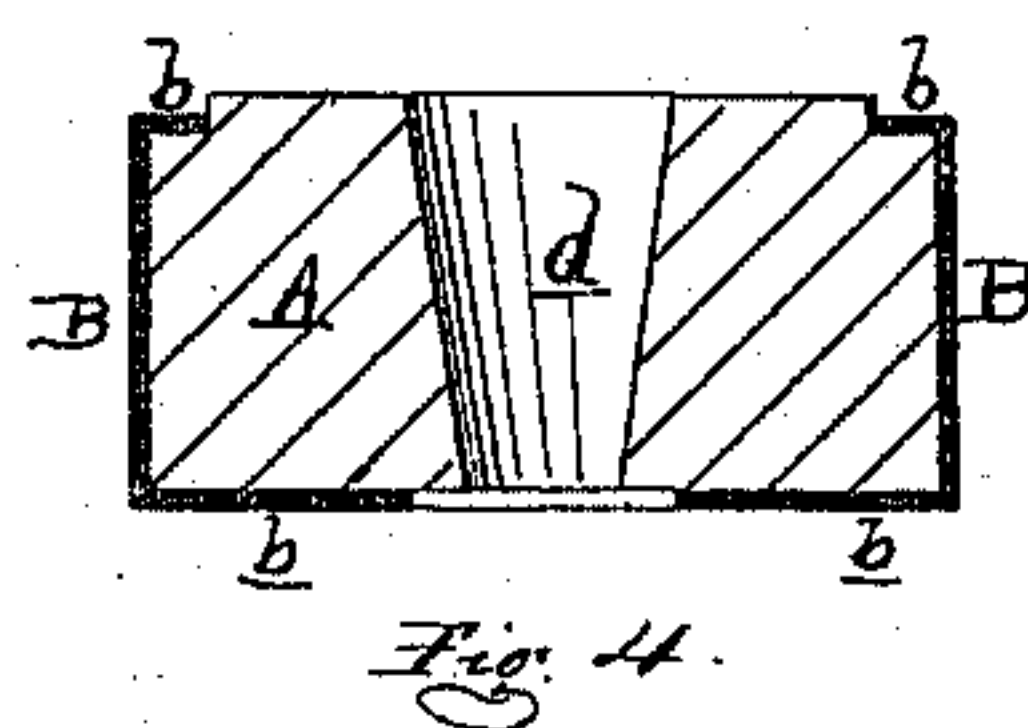
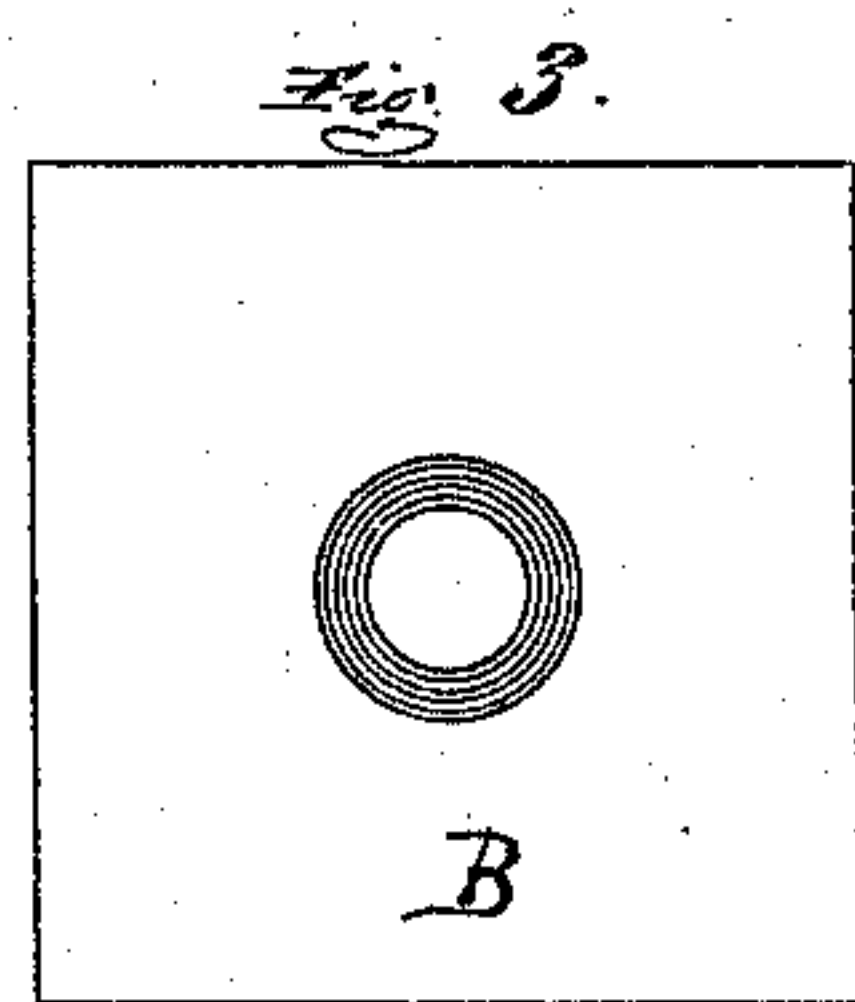
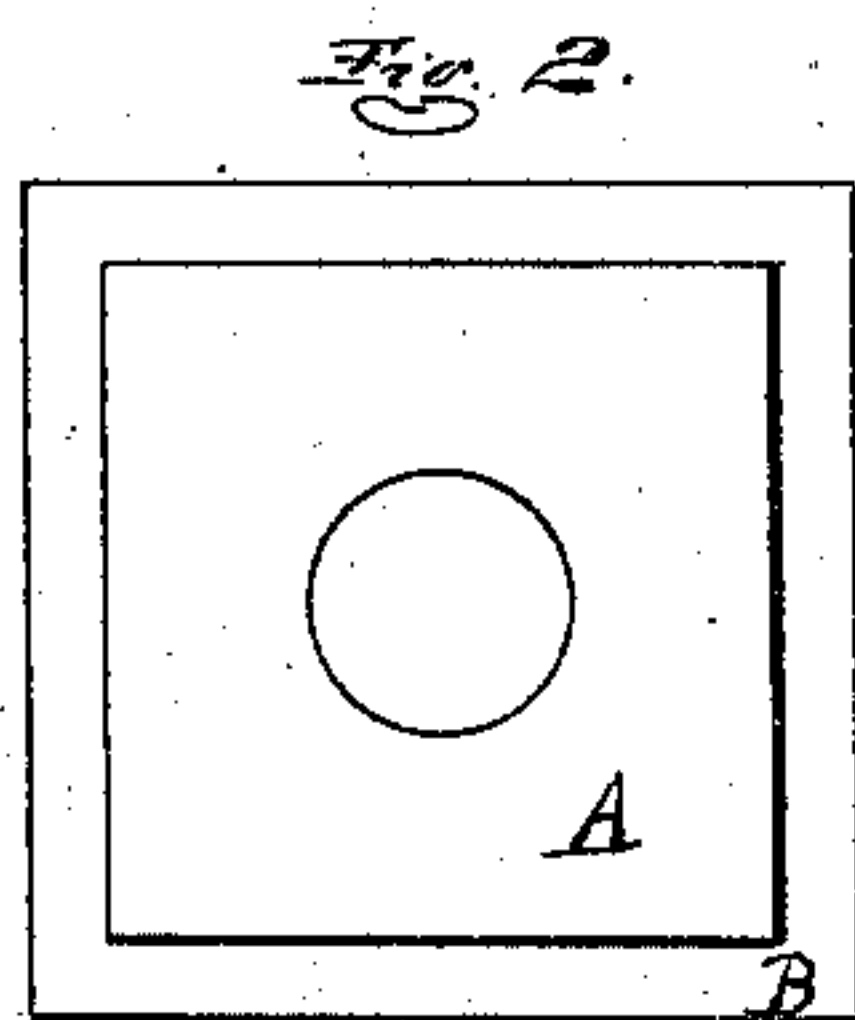
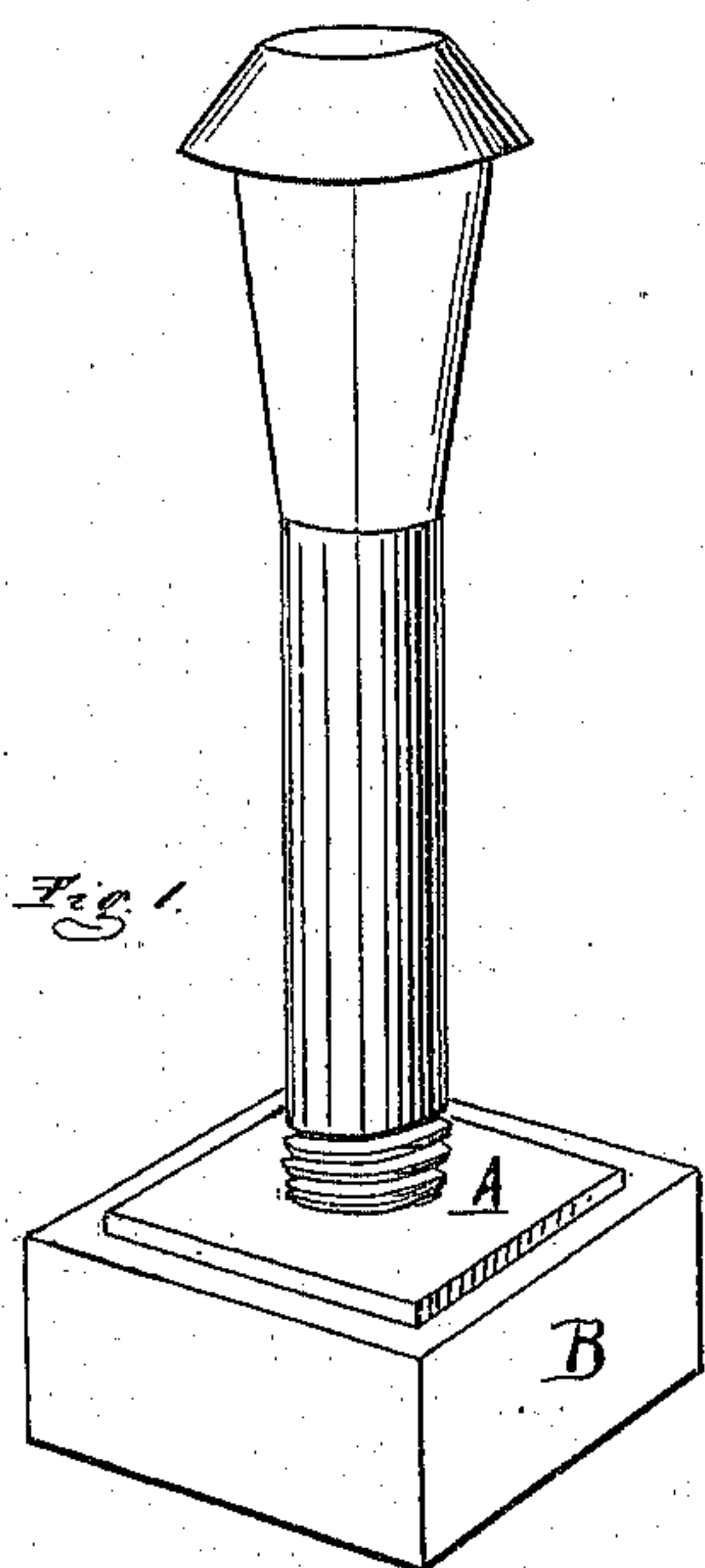


L. L. DUNLAP.

Improvement in Nut and Bolt Fastening.

No. 131,945.

Patented Oct. 8, 1872.



ATTEST:
N. S. Sprague
H. F. Elish.

INVENTOR:
L. L. Dunlap
By Atty —
N. S. Sprague

UNITED STATES PATENT OFFICE.

LEWIS L. DUNLAP, OF PONTIAC, MICHIGAN.

IMPROVEMENT IN NUT-AND-BOLT FASTENINGS.

Specification forming part of Letters Patent No. 131,945, dated October 8, 1872.

To whom it may concern:

Be it known that I, LEWIS L. DUNLAP, of Pontiac, in the county of Oakland and State of Michigan, have invented a new and useful Improvement in Incased Rubber Jam-Nuts; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my improved jam-nut; Fig. 2 is a plan view of the top of my nut; Fig. 3 is a plan of the opposite side; and Fig. 4 is a transverse vertical section.

Like letters refer to like parts in each figure.

The nature of this invention relates to the construction of an elastic jam-nut inclosed in a metallic case, and so constructed that the bolt will, in entering the nut, cut its own thread, and the case will not only protect the nut but also prevent undue expansion. The invention consists in constructing an elastic jam-nut with a tapering hole, so that the bolt will freely enter the bottom of the nut, and, in its further passage through the same, will cut its own thread and compress the nut in the case.

In the accompanying drawing, A represents an India-rubber nut inclosed in a metallic case, B, into which the nut is pressed and held in place by the inwardly-projecting flanges *b*. The hole through the nut for the reception of the bolt is conical or tapering in form, as shown at *d* in Fig. 4, the largest part of the hole being at the bottom of the nut, and of the proper diameter to freely receive the end of the bolt, which, in its progress through the nut, and owing to the peculiar shape of the hole, cuts its own thread in the nut, and still further compresses the same in the case and causes the nut so firmly to grasp the bolt that all danger of the former being accidentally loosened on the latter is entirely avoided.

What I claim as my invention, and desire to secure by Letters Patent, is—

The jam-nut described, consisting of the elastic nut A, having the tapering hole *d*, inclosed in a metallic casing, as described.

LEWIS L. DUNLAP.

Witnesses:

THOS. S. SPRAGUE,

H. F. EBERTS.