

(No Model.)

E. O. ABBOTT.
CUSHION FOR CHECK PERFORATORS.

No. 450,691.

Patented Apr. 21, 1891.

Fig. 1.

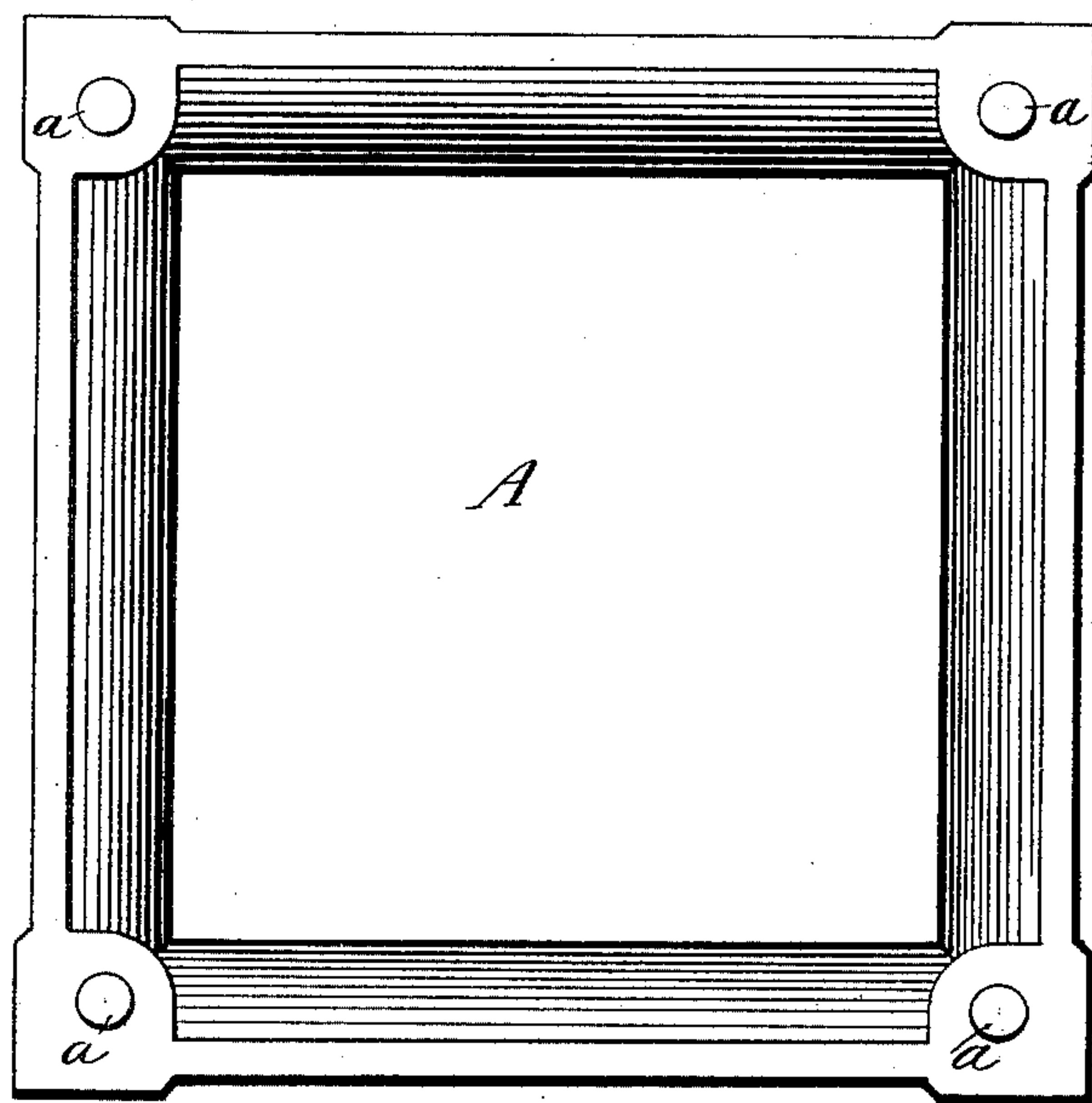


Fig. 2.

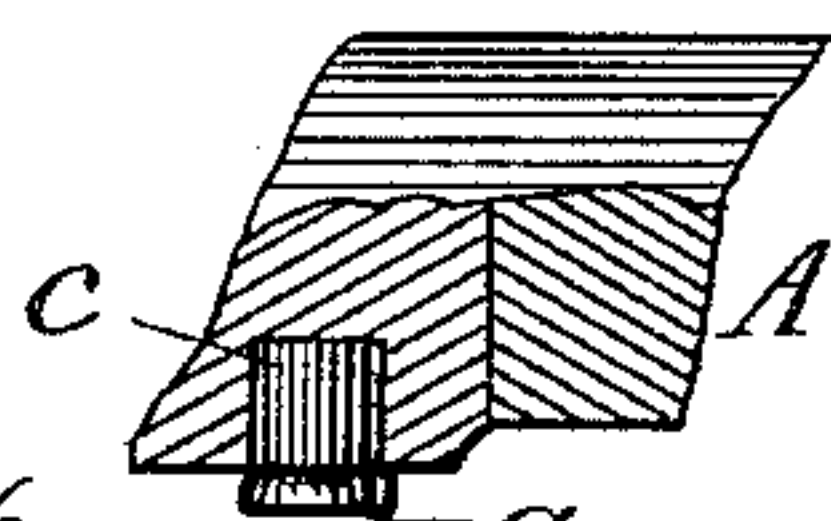


Fig. 6.

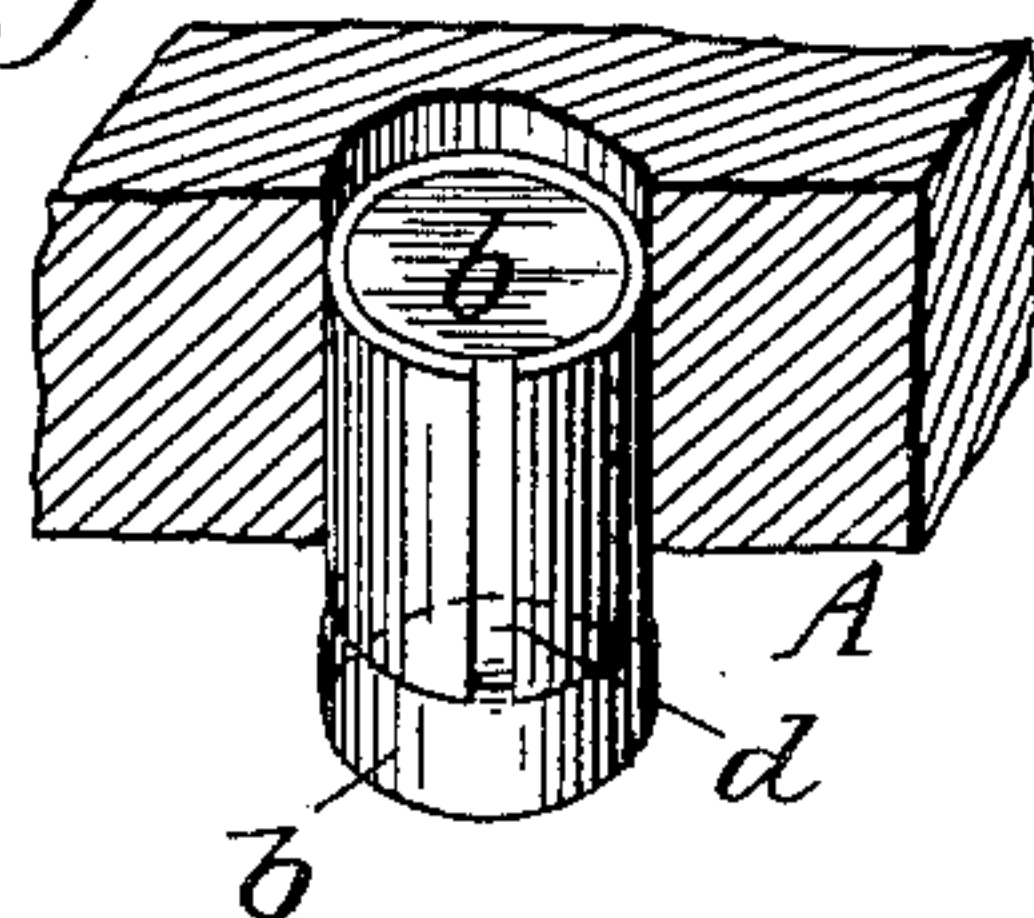


Fig. 5.

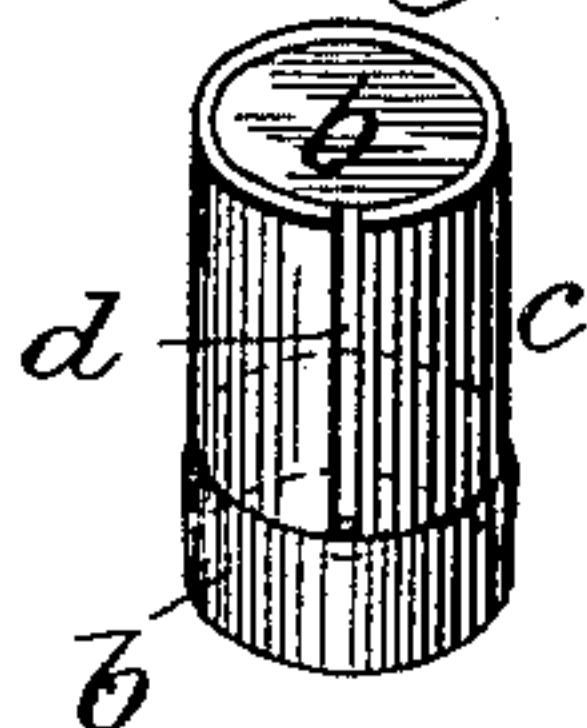


Fig. 3.



Fig. 4.



Witnesses:
Theo. Proulx
Mathilda Proulx

Inventor.
Edwin O. Abbott
per
H. Harrison
attorney

UNITED STATES PATENT OFFICE.

EDWIN O. ABBOTT, OF CHICAGO, ILLINOIS.

CUSHION FOR CHECK-PERFORATORS.

SPECIFICATION forming part of Letters Patent No. 450,691, dated April 21, 1891.

Application filed June 16, 1890. Serial No. 355,687. (No model.)

To all whom it may concern:

Be it known that I, EDWIN O. ABBOTT, a subject of the Queen of England, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Friction and Protection Foot or Cushion for Check-Perforators and other Devices, of which the following is a specification.

My invention relates to improvements in friction and protection foot or cushion for check-perforators and other devices; and it consists in the particular construction and arrangement of the same as will be hereinafter fully described, and pointed out in the claim.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe my improvement, referring to the accompanying drawings, in which—

Figure 1 is a plan view of the bottom of the base of a check-perforator with my improvement attached. Fig. 2 is a side sectional view taken through one of the feet of the base, showing the foot or cushion in position. Fig. 3 is a perspective view of the band surrounding the foot or cushion. Fig. 4 is a perspective view of the foot or cushion without the band. Fig. 5 is a perspective view of the foot or cushion surrounded by its band, one part of the foot protruding and both compressed ready for insertion. Fig. 6 is a sectional view of a portion of the base, showing one of the feet or cushions inserted in its band, the band being expanded against the wall of the hole in the base.

Similar letters refer to like parts throughout the several views.

It has been found by experience that the cushions or insulators of rubber for rests or feet of the base of machines as heretofore used and their manner of insertion are objectionable. In one case the cushion or insulator consists of a piece of semi-vulcanized rubber cast around the head of a wire nail, which is driven into a hole of sufficient size drilled or bored in the base to permit the nail to be driven in and the rubber to rest against the bottom of the base. In this construction the rubber being hard it does not form a good cushion for insulating or preventing the sound or vibration of the machine passing into the table on which it rests. In another

case the cushion insulator or foot consists of a piece of rubber having a shank with a head at one end. This is forced by the fingers into a hole prepared in the base for it. With this construction it is found that often it is not possible to force the shank sufficiently far in to bring the head snug and flush against the base, so that in order to have the machine set evenly on the table one or more of the cushions have to be pared off, and often when the machine is rubbed upon the table one or more of the cushions will be rubbed out of its hole. Sometimes a little oil is used to insert this last-mentioned rubber cushion easily; but this is very objectionable because the oil soon hardens the rubber and destroys its elasticity. I overcome these objections and others by providing a simple, effective, and practical cushion or foot, by placing a band of thin metal or other suitable material around a piece of rubber or other suitable material, then compressing the combined two by pliers or otherwise and forcing the same into a suitable hole in the base for the same, and by other details of construction, as will be fully understood from the drawings, in which—

A is a base of any machine. In this case it represents the base of a check-perforator already patented by me; but it may as well represent the base of any other machine.

a a are holes formed or drilled in the bottom of the base for the reception and retention of the cushions or feet—in number as many as may be desired.

b is the cushion or foot, of any suitable size, shape, or material, but preferably of a round piece of rubber of the desired length.

c is a band or open ring of any suitable material, preferably of thin metal, of size corresponding with the diameter of the foot *b*, so as to surround the same and yet leave a portion of the foot *b* projecting at one end. The said band or ring may be continuous; but it is preferably formed or provided with the slit *d* its entire length, as shown in the drawings.

The manner of operation is simple and as follows: The holes *a a* having been formed or drilled in the base, the piece of rubber or other material *b*, having been formed or cut of suitable size and length desired for the foot, and the band or ring *c*, with its slit *d* or otherwise placed around the piece *b*, with

the latter projecting at one end, both combined are then placed between the jaws of the pliers, allowing a little of the flush ends to project from the jaws of the pliers, in which position they are compressed by the pliers, and the protruding flush ends of the combined piece and ring under said compression are easily placed in the hole *a* of the base. Then the pliers are released and placed upon the protruding end of the internal piece *b* resting on the adjacent end of the band or ring *c*. Then I squeeze the jaws of the pliers closing upon the rubber, and hit the pliers with a blow which drives the band *c* and its internal piece *b* to the bottom of the hole. The band being preferably of the same length as the depth of the hole *a*, the pliers then being removed, leaves the cushion or foot in proper position and solidly fixed in the hole in the base. The expansion of the piece *b* will expand the band *c*, forcing it against the wall of the hole, thereby holding it firmly and so that all feet will protrude uniformly. I prefer to make the piece *b* of a soft-rubber rod, as it will insure better insulation, but do not desire to be confined to said material. In

case it is desired to remove the foot for insertion of a new one, or otherwise, the same can readily be done by means of a common wood-screw.

While I have shown my invention applied to the base of a machine it is evident that the cushion may be placed at any point on any machine where it is desired to obtain insulation from vibration and similar purposes.

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

In a protection cushion or foot for check-perforators and other devices, a foot or cushion, in combination with a band or tube shorter than the foot and provided with a slit whereby they are together compressed and inserted in a hole in check-perforators or other devices for friction and insulation, substantially as shown and described.

In witness whereof I hereunto set my name in presence of two witnesses.

EDWIN O. ABBOTT.

In presence of—

SADIE C. NEWBURN,
N. FERRIS.