

W. J. EVANS & W. H. KUNERT.  
BOX PULL.

Patented Nov. 3, 1891.

Fig. 1.

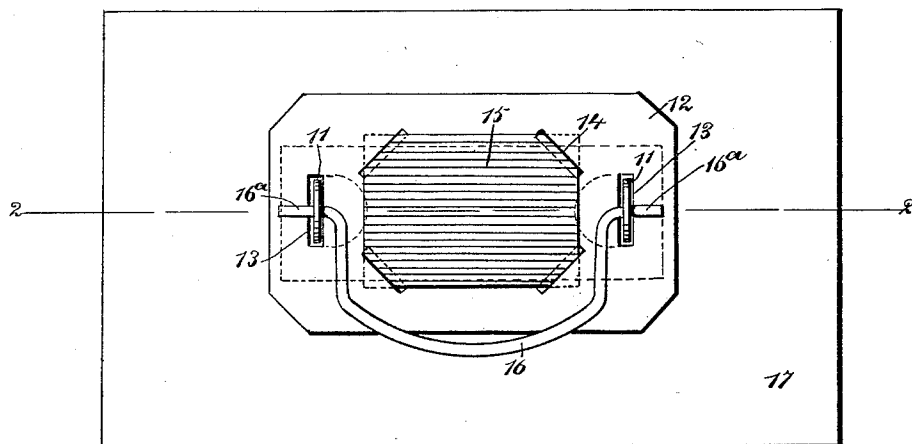


*Fig. 2*

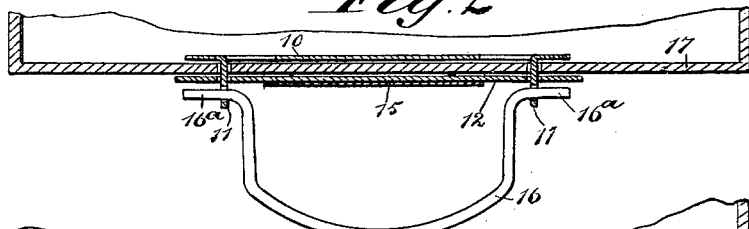


Fig. 3

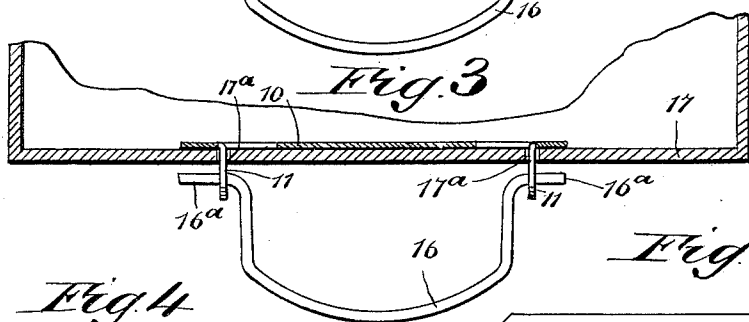


*Fig. 4*

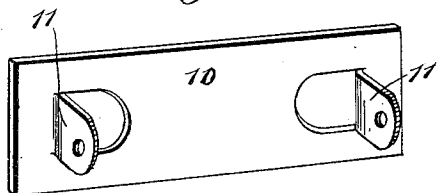
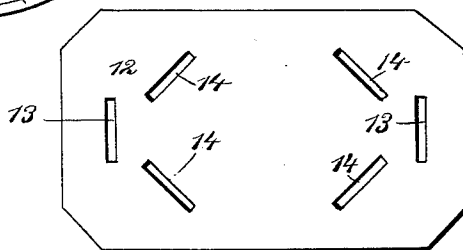


Fig 5



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# UNITED STATES PATENT OFFICE.

WILLIAM J. EVANS AND WILLIAM H. KUNERT, OF MINNEAPOLIS, MINNESOTA.

## BOX-PULL.

SPECIFICATION forming part of Letters Patent No. 462,541, dated November 3, 1891.

Application filed March 10, 1891. Serial No. 384,406. (No model.)

*To all whom it may concern:*

Be it known that we, WILLIAM J. EVANS and WILLIAM H. KUNERT, both of Minneapolis, in the county of Hennepin and State of Minnesota, have invented a new and Improved Box-Pull, of which the following is a full, clear, and exact description.

Our invention relates to improvements in box-pulls; and the object of our invention is to produce a simple, cheap, and convenient box-pull which may be easily attached to any box, which is especially adapted for fragile boxes, as it has a large bearing-surface on the box, and which enables the box to be easily handled without injury.

To this end our invention consists in a box-pull constructed substantially as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a front view of the box-pull as applied to a box. Fig. 2 is a cross-section of the same on the line 2-2 in Fig. 1. Fig. 3 is the same view, but with the front plate removed. Fig. 4 is a detail perspective view of the back plate; and Fig. 5 is a detail front view of the front plate.

The box-pull is provided with a back plate 10, which fits against the inner wall of a box, and the plate is provided near each end with a laterally-extending ear 11, which ears are adapted to project through slots in the box, and the ears are formed preferably by cutting the back plate so as to give the desired shape to the ears and then bending the ears from the body of the plate, as best shown in Fig. 4. The ears are perforated near their outer ends so as to receive a handle. The front plate 12 is adapted to fit against the front side of a box opposite the back plate 10, and it is provided near each end with a transverse slot 13, and these slots are adapted to fit over the projecting ears 11 of the back plate, as best shown in Fig. 2. The front plate is also provided with slots 14, which are produced diagonally near the ends and sides of the plate, as best shown in Fig. 5, and by means of these slots a label

15 may be conveniently attached to the plate by doubling over the corners of the label and inserting them in the slots 14, and this label may be marked to indicate the character of the goods contained in the box.

A handle 16 is provided for the pull, and the handle is preferably made of strong wire and provided with bent ends 16<sup>a</sup>, which are adapted to enter and project through the perforations in the ears 11.

To apply the pull to a box, the back plate 10 is placed on the inner side of the box 17 and against the front wall, with the ears 11 projecting through slots 17<sup>a</sup> in the front of the box. The front plate 12 is placed against the front wall of the box, with the ears projecting through the slots 13, and the handle is sprung into the ears. The front plate serves to strengthen the pull and also provides means for conveniently marking the box; but, if desired, the front plate may be dispensed with and the handle sprung directly into the ears, as shown in Fig. 3.

The device is especially adapted for use on paper boxes, as the back plate 10 has a large bearing-surface on the box, and the strain when the box is pulled will thus be distributed in such a manner that the box will not be injured.

The pull may be conveniently attached to a box as described, and after the box to which it is attached has been emptied the pull may be secured to another full box.

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

A box-pull comprising a back plate having laterally-extending ears to project through the side of a box, a front plate having end slots to receive the ears and diagonal slots to receive a label, and a removable handle adapted to be secured in the ears, substantially as described.

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WILLIAM H. KUNERT.

Witnesses:

RUDOLPH ERTL,  
PETER PETERSON.