

UNITED STATES PATENT OFFICE.

LOUIS B. PRAHAR, OF NEW YORK, N. Y.

BOX-FASTENER.

No. 871,627.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, LOUIS B. PRAHAR, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Box-Fasteners, of which the following is a full, clear, and exact description.

The invention relates to what is generally known as box fasteners, or that class of fastening device in which a pivoted or hinged hasp or tongue-shaped latch is employed in connection with a keeper.

The purpose of the invention is to provide a means whereby the latch sections of such fasteners consist of but two parts, thereby not only materially reducing the cost of manufacture, but at the same time producing a stronger article and one wherein there is little or no liability of the parts becoming separated and lost.

It is a further purpose of the invention to provide an article of the character described that can be made lighter than heretofore without in any manner detracting from its strength.

The invention consists in the novel construction and combination of the several parts as will be hereinafter fully set forth and pointed out in the claims.

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

Figure 1 is a front elevation of the improved fastener and a portion of a box body and cover to which it is applied; Fig. 2 is a front elevation of a body member of the back section of the fastener; Fig. 3 is a transverse central section through said body taken practically on the line 3—3 of Fig. 2; Fig. 4 is a transverse section through the complete latch portion of the fastener, the section being taken also on the line 3—3 of Fig. 2; Fig. 5 is a longitudinal section through the body member of the latch portion of the device, the section being taken substantially on the line 5—5 of Fig. 2; and Fig. 6 is a front elevation of the body member of the latch section, illustrating a slight departure in the formation thereof.

A represents the latch section of the fastening device and B the keeper section, the latch section being shown as attached to the cover A' of a box, and the keeper section B

as secured to the body portion B' of the box, but the invention relates particularly to the construction of the latch section A which can be used in connection with any form of keeper B.

The body portion 10 of the latch section A is made of sheet metal or metal thin enough to be stamped, since the said latch section is to be made entirely of stamped material. The said body member 10 of the latch A is provided with an opening 11 centrally located therein and extending longitudinally thereof; this opening 11, however, may be located at any point between the ends of the body 10 and between its top and its bottom edges.

The material that is removed in the formation of the opening 11 is stamped outwardly, and as it is outwardly carried said material is shaped to form a post 12 at each end of the opening 11, and a bearing 13 extending usually from post to post over the central portion of the opening 11, as is shown in Figs. 2 and 5. The bearing member 13 is segmental in cross section, as is illustrated in Figs. 3 and 4, its convexed surface being its outer surface, and this bearing member 13 is adapted to have pivotally connected therewith or to pivotally support a latch tongue C. Thus it will be observed that the posts 12 and the bearing member 13 are integral and the posts 12 are also integral with the body 10. The posts 12 are of greater diameter than the diameter of the bearing member 13, so that the inner faces of the said posts extend out from and around bearing member 13, forming a shoulder 14 that prevents the latch tongue C from having lateral movement on the bearing member yet not interfering in the least with its rotary or pivotal movement.

In Fig. 6 I have illustrated a very slight departure in the construction of the body member 10, wherein it will be observed that the bearing member 13 in Fig. 2 is substituted by opposing trunnions 15, of the same cross sectional shape as the said bearing member 13, one trunnion extending from the inner face of each post 12, and in the construction shown in Fig. 6 as well as in the construction shown in Fig. 2, the body and the projections therefrom are all made usually by one operation of a suitable die. Thus it will be observed that the latch section A consists of but two pieces, whereas heretofore in constructing the latch section of the

type shown, five or more pieces have had to be employed, first the body had to be struck out, then the posts formed and secured in position, then a pintle had to be passed
5 through the posts and secured in position, and finally the latch tongue had to be pivotally mounted on the pintle.

The latch tongue C may be of any desired formation, usually, however, it is of the customary shape, as is shown, its lower end being forwardly and downwardly curved and provided with an opening 16 to engage with a stud 17 on the keeper section B, but the locking engagement between the tongue and
15 the said keeper section may be otherwise produced. The upper end of the tongue is curved downwardly and rearwardly over the bearing member 13 or 15, and is then coiled around the said bearing, as is shown at 18 in
20 Fig. 4, the rear end of the coil being within the opening 11. It will be observed that this device is exceedingly simple and economical and durable, as has been stated.

I desire it to be understood that the posts
25 12 are not necessary to limit the lateral movement of the latch tongue C, since such function is actually performed by the end

walls of the opening 11 and said posts may be considered as ornaments.

Having thus described my invention, I
30 claim as new and desire to secure by Letters Patent:

1. In a latch section for box fasteners and the like, a body member having a portion thereof struck out, forming an opening in
35 the said body, the struck out portion forming a bearing member, and a latch member carried by the bearing member.

2. As an improved article of manufacture, a bearing plate for the latch section of a box,
40 or like fastening, consisting of a single piece of metal having the material between its ends struck up, forming an opening therein and an integral pivot member opposite the opening and spaced from the face of said
45 plate.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LOUIS B. PRAHAR.

Witnesses:

EVERARD B. MARSHALL,
F. W. HANAFORD.