(No Model.)

H. H. ELWELL.

Match-Safe.

No. 228,452. Patented June 8, 1880.

fig. 1

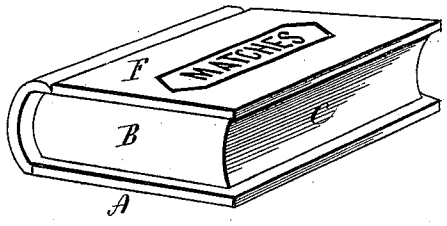


fig. 2

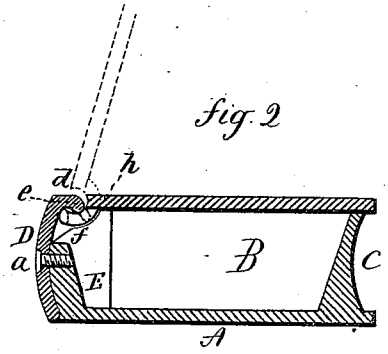
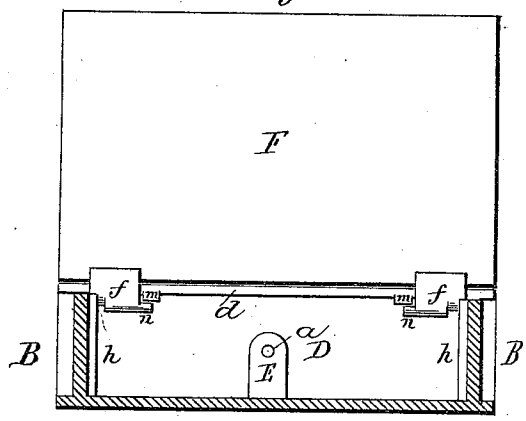


fig. 3



Witnesses.
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UNITED STATES PATENT OFFICE.

HENRY H. ELWELL, OF SOUTH NORWALK, CONNECTICUT.

MATCH-SAFE.

SPECIFICATION forming part of Letters Patent No. 228,452, dated June 8, 1880.

Application filed April 2, 1880. (No model.)

To all whom it may concern:

Be it known that I, HENRY H. ELWELL, of South Norwalk, in the county of Fairfield and State of Connecticut, have invented a new Improvement in Match-Safes; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a perspective view; Fig. 2, a transverse section; Fig. 3, longitudinal section, showing the cover raised.

This invention relates to an improvement in boxes made from cast metal designed to be used for match-safes or for other purposes, the object being a simple construction of hinge, such as may be completely formed in the process of casting; and the invention consists in the construction, as hereinafter described, and particularly recited in the claim.

The body of the box consists of the bottom A, ends B, and front C, which are cast in a single piece; D, the back, which is also cast in one piece, but at some convenient point is constructed for attachment to the body of the box, here represented as by a screw, *a*, through the back into a lug, E, extending up from the bottom of the box, but may be in any other convenient manner. The back turns over at the top, as at *d*, and upon its inner or under side has formed upon it a lug, *e*, preferably at each end. F, the cover, is constructed at its rear with hook-shaped projections *f*, to lie under and engage the corresponding projections *e*, projecting inward and downward from the back, and as seen in Fig. 2, and inside the box there is a socket, *h*, formed at each end, corresponding to the exterior of the hook-shaped projections *f*, and against which the hooks will lie, as seen in Fig. 2, and so that when the cover is laid in place and the back secured, as seen in Fig. 2, the hook-shaped projections *f* on the cover and the corresponding projections *e* on the back, with the socket *h*, form a hinge, upon which the cover will turn as in opening, as seen in broken lines, Fig. 2.

To prevent the cover from being entirely removed from the box, an extension, *n*, is formed on one side of the hinge, so as to engage a corresponding shoulder, *m*, on the back, as seen in Fig. 3, and also seen in broken lines, Fig. 2.

By this construction the single securing device *a* secures all the parts together, and the said parts may be completely formed in the casting without other mechanical operation or labor than that commonly used in finishing and cleaning castings.

As represented in the drawings, the box is in the form of a book, and the hinging device is entirely concealed in the box.

It is not essential that the entire back be removable, as it may be divided, the lower portion made as a part of the box and the upper portion removable. Hence by the term "removable back" I wish to be understood as including such modification.

I am aware that cast-metal boxes have been made with a detachable back and with a cover cast with trunnions to set into a seat in the ends formed in a portion of the back and end; but in such construction the means for attaching the back to the body have been outside the box, and the trunnions have necessarily extended through the ends of the box, preventing the neat and tasteful article which is produced by my improvement.

I do not wish to be understood, therefore, as broadly claiming a cast-metal box having the cover hinged and secured in its place by means of a detachable back.

I claim—

The herein-described metal box, consisting of the body with a back detachable therefrom, and secured to the body by means of a projection within the body, the cover and the said back constructed with corresponding interlocking projections to form the hinge and entirely within the box, substantially as described.

HENRY H. ELWELL.

Witnesses:

JACOB M. LAYTON,

HENRY HOFFMAN.