

C. F. McBEE.
 ASSEMBLY BOX FOR PERFORATING AND BINDING MACHINES.
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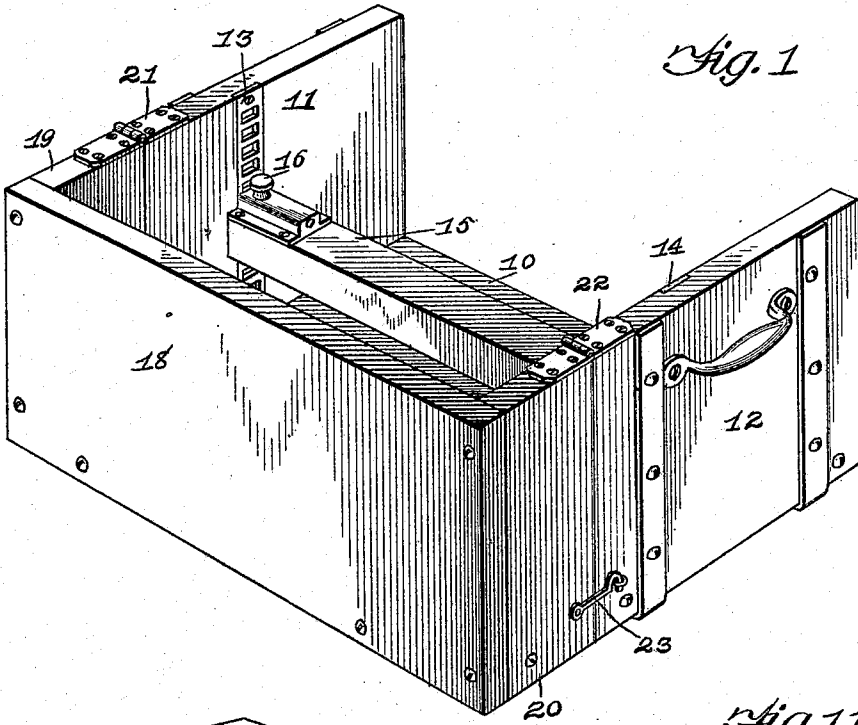


Fig. 1

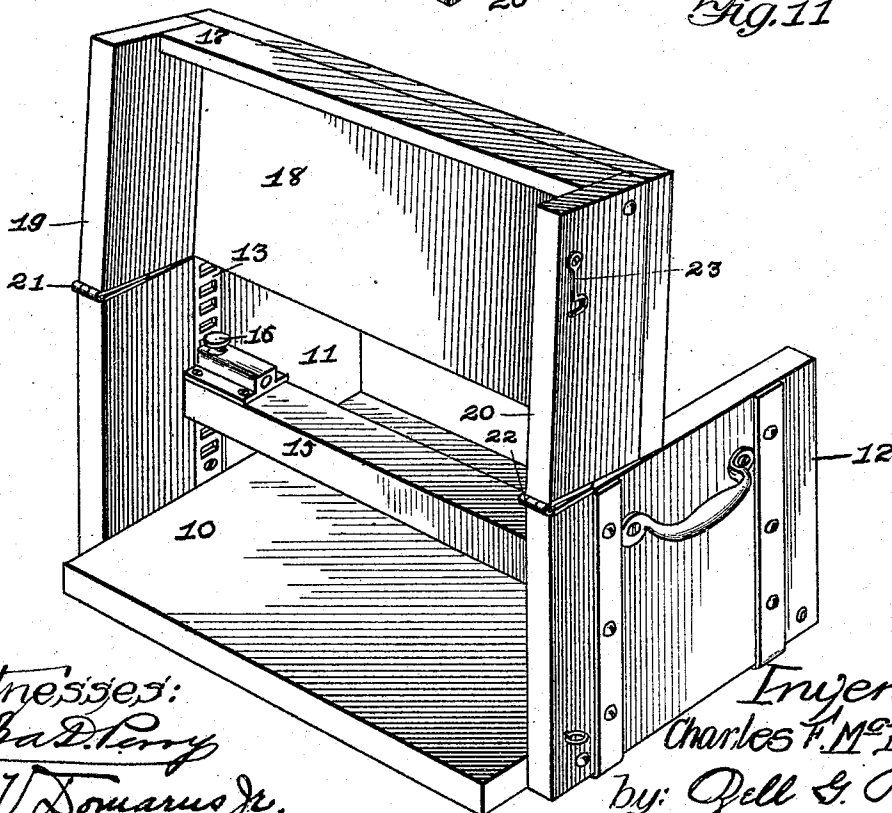


Fig. 11

Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES F. McBEE, OF ATHENS, OHIO.

ASSEMBLY-BOX FOR PERFORATING AND BINDING MACHINES.

942,180.

Specification of Letters Patent.

Patented Dec. 7, 1909.

Application filed March 31, 1908. Serial No. 424,358.

To all whom it may concern:

Be it known that I, CHARLES F. McBEE, a citizen of the United States, residing in Athens, county of Athens, and State of Ohio, have invented a new and useful Improvement in Assembly-Boxes for Perforating and Binding Machines, of which the following is a specification.

In preparing way bills, and other like matter, for binding it is necessary to even the edges and perforate the same. Heretofore no adequate means have been supplied for doing this and the object of my invention is to provide an assembly box in which the papers may be placed and evened and clamped securely in position and thus retained until perforated and bound.

Another object is to provide an assembly box which will be adapted to be placed in the perforating machine in order that the way bills, and the like, will not be disturbed until bound. To this end I have provided a lifting forward portion to my box, suspended and secured to the body of the box by hinges, said portion being designed to be doubled back out of the way when the box is in the machine.

Another object is to facilitate the perforating and binding of papers and this object can best be attained by supplying a desirable, adequate and convenient assembly box.

My invention consists of certain details of construction hereinafter set forth, pointed out in my claim and illustrated in the accompanying drawings in which—

Figure I shows a perspective view of my device; and Fig. II shows a like view, the forward portion of the box being doubled back from its hinges.

Referring to the accompanying drawings the reference numeral 10 is used to indicate the base of my box, rectangular in conformation and provided on each side with upwardly extending sides 11 and 12, said sides extending from the rear of the base 10 to a point nearly in line with the forward edge thereof. The said sides are similar in every respect and are each provided, on its inner surface, with a vertical series of recesses 13 and 14, respectively, adapted to receive a cross bar 15 designed to compress the papers, as will be hereinafter explained. The said cross bar is provided, on each end, with a spring actuated latch 16 designed to engage the said recesses.

The numeral 17 indicates a strip designed

to fit flush with the forward part of the base 10 and to operate as an extension of said base, and the numeral 18 indicates the forward side of the box which extends upwardly the same distance as the sides 11 and 12.

The numerals 19 and 20 indicate extensions of the sides 11 and 12, respectively, designed to fill the space between the said sides and the forward portion of the box 18 and the extensions 19 and 20 are secured to the strip 17 and the forward portion 18.

The numerals 21 and 22 indicate hinges mounted on the upper edge surface of the sides of my box and joining the sides 11 and 19, and 12 and 20, respectively.

The numerals 23 indicate hooked fastenings which lock the hinged part of my box to the body portion.

In practical operation a cover, designed to form one of the backs of the bound volume, is placed within the box, the side to be bound being jammed against the forward face of the box. The papers to be bound are then placed on the top of the said cover and forced against the forward face of the box, thus evening the ends of the papers and the end of the cover. If the papers are of various widths, such as is often the case with way bills, or if the cover is many times wider than the papers to be bound, the said papers are evenly distributed over the cover so as to make their depth approximately the same. The cover designed to form the top of the bound volume is then placed on top of the said papers and jammed back against the forward face of the box and evened with the sides of the under cover, by means of the longitudinal sides and forward part of the said box. The cross bar 15 is then forced downwardly, the latches on its ends engaging the recesses hereinbefore described until it creates a great pressure on the said covers and papers. It is obvious that this pressure will remain until the said bar is released, on account of the recesses firmly holding the latches on the said bar. It is my purpose to use spring actuated latches, or bolts, beveled on their under surfaces, so as to provide for forcing the bar downwardly in its retaining recesses. The fastenings, securing the hinged forward section of the box to the body portion, are then released leaving the forward section free to swing upon hinges, and the said section is then doubled back as shown in Fig.

II. It is obvious that when the strip 17 is removed, as described, the forward end of the covers and papers will protrude beyond the forward edge section of the base 10 and
5 will be parallel with said base. The box containing the papers and covers is then placed within a perforating and binding machine, the forward edge surface of the base 10 being designed to engage a shoulder
10 in the machine provided for the purpose of causing the ends of the covers and papers to assume a position in the machine in line with the operating bits. After the covers and papers have been perforated they are
15 bound by any of the ordinary means, said covers and papers remaining in the box until the binding process is complete, but as this process is not a part of my invention a description of the same will not be given.
20 In removing the bound volume from the box the spring actuated latches 16 are moved from their engagement with their respective recesses and the bar 15 removed.

Having thus described my invention what I claim and desire to secure by Letters Patent of the United States is:

An assembly box for perforating and binding machines comprising a rear and a front portion hinged together; a base and sides to said rear portion said base protruding in front of said side and recesses in the inner surface of each of said sides; a cross bar fitting between the said sides and means for securing said cross bar in said recesses; a base, sides and forward part to
30 said forward portion said sides extending in the rear of said base the two portions forming in their entirety one complete box open at its rear; means for locking said two portions together, substantially as shown
40 and described.

CHARLES F. McBEE.

Witnesses:

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INEZ B. ALEXANDER.