March 25, 1924. 1,488,259

C. F. McBEE

EVENER BOARD FOR BOOKBINDING MACHINES

Filed Dec. 30, 1918 2 Sheets-Sheet 1

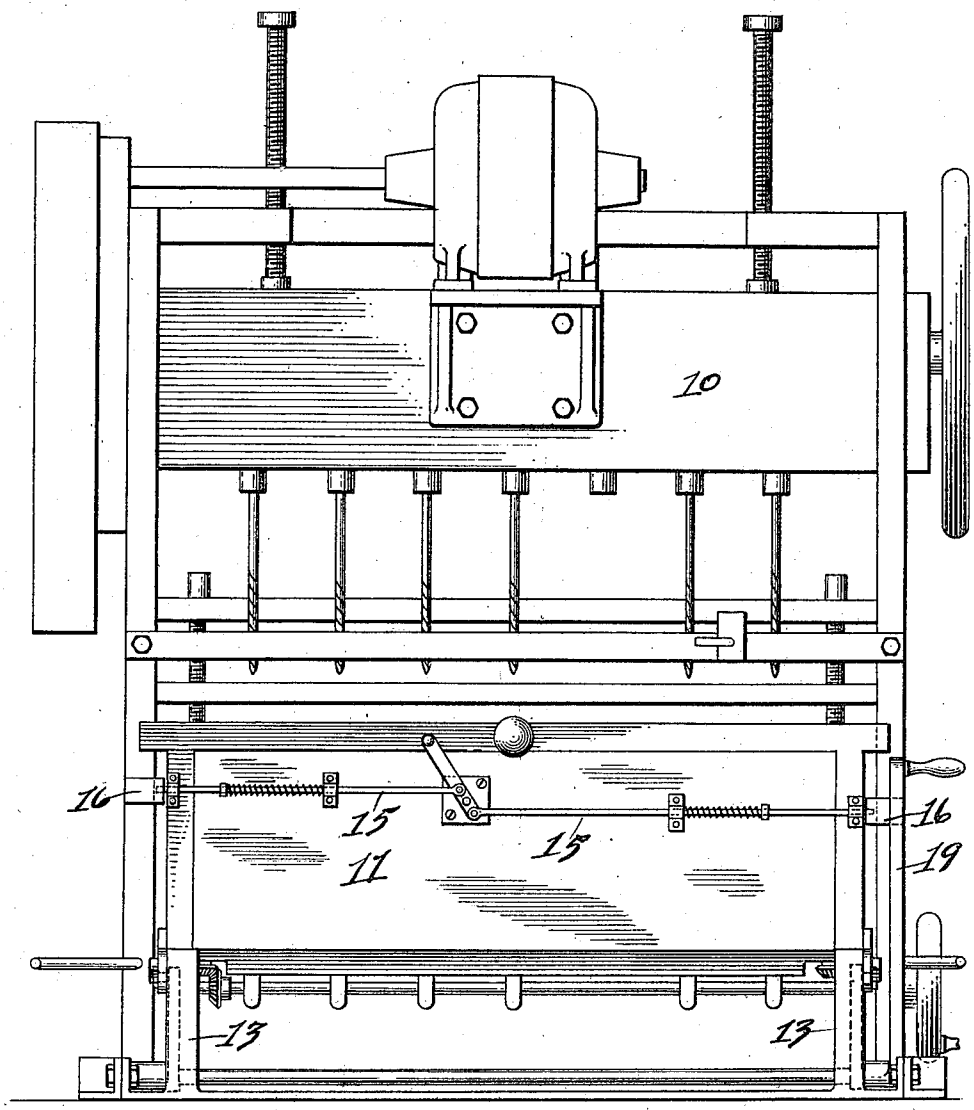


Fig. 1.

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By his Attorneys.
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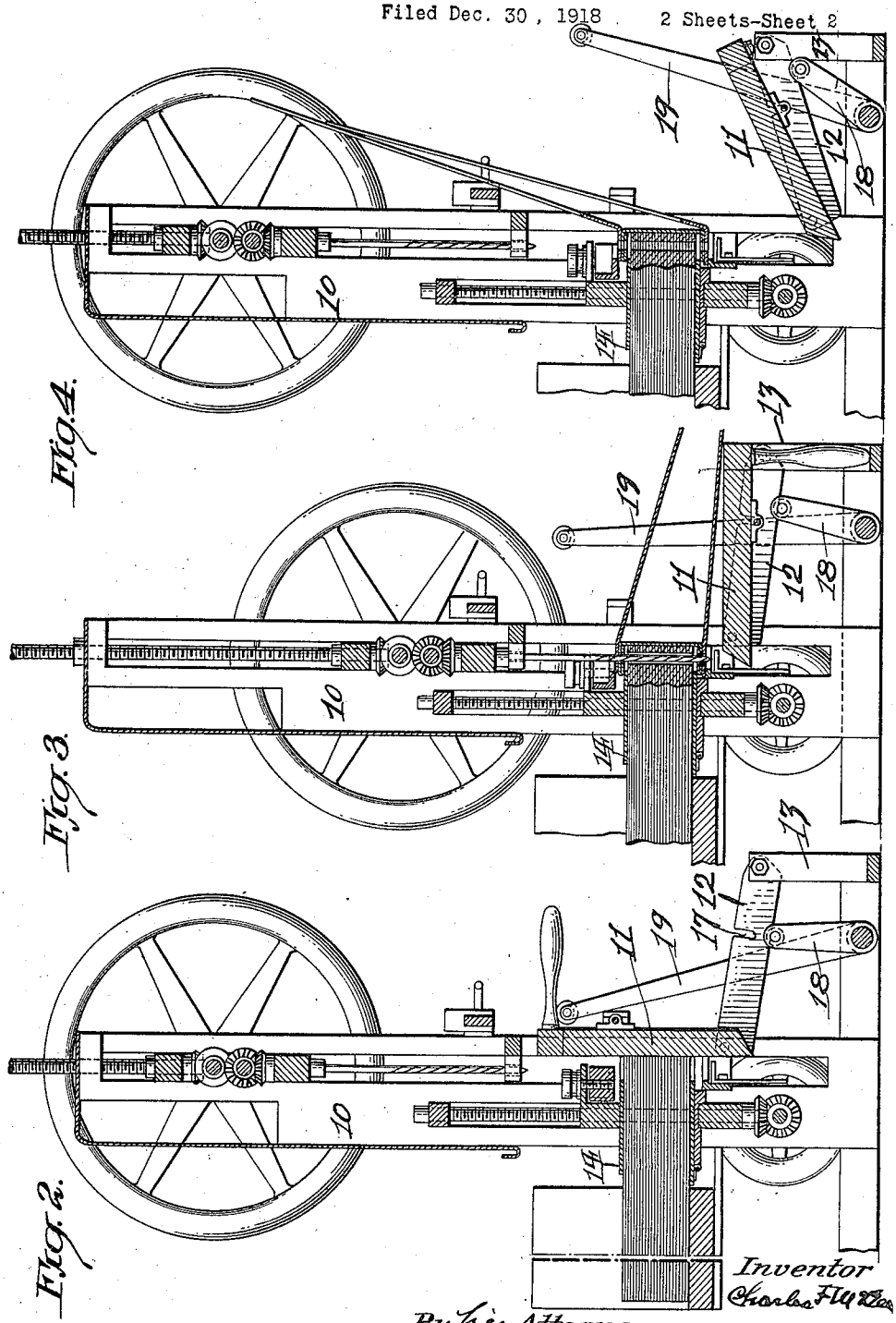


Fig. 4.

Fig. 3.

Fig. 2.

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Patented Mar. 25, 1924. 1,488,259

UNITED STATES PATENT OFFICE.

CHARLES F. McBEE, OF ATHENS, OHIO, ASSIGNOR TO THE McBEE BINDER COMPANY, OF ATHENS, OHIO.

EVENER BOARD FOR BOOKBINDING MACHINES.

Application filed December 30, 1918. Serial No. 269,009.

To all whom it may concern:

Be it known that I, CHARLES F. McBEE, a citizen of the United States, residing at Athens, in the county of Athens and State of Ohio, have invented a certain new and useful Improvement in Evener Boards for Bookbinding Machines, of which the following is a specification.

The object of my invention is to provide an evener board for book binding machines which may also be used as a table for working during the construction of the volume, and which may also be placed so as to be out of the way for other operations.

My invention consists of certain details of construction hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which Figure 1 shows a front elevation view of a binding machine fitted out with my device;

Figure 2 shows a vertical sectional view of the same;

Figure 3 shows a vertical sectional view of the same, the evener board being in position for use as a table; and

Figure 4 shows a like view, the evener board being in the position it assumes when it is desired to have it out of the way.

Referring to the accompanying drawings the reference numeral 10 is used to indicate a binding machine adapted to receive, even, compress and perforate the sheets, back and covers to be used in constructing a volume, and the numeral 11 indicates an evener board pivotally mounted, at each of its ends, to two supports 12 which project forwardly their outer ends being pivotally secured to legs 13. The said legs are located in front of the machine, a distance approximately equal to the width of the evener board, and extend upwardly to a point which, when the evener board is resting upon them as shown in Figure 3, will cause it to assume practically a horizontal position. The supports 12 are of such length that when the evener board is in position to perform its function as such, they hold the evener board flush against the uprights of the machine. The sheets to be bound are projected forward to contact with the evener board which causes them to be in proper position to be perforated and they are firmly held in this position by a pressure bar 14. The evener board is held in this position by spring actuated lock rods 15 which lock in receiving lugs 16 on the uprights of the machine. This construction is clearly shown in Figure 2. In the upper edge surface of each of the supports 12 I have provided a recess 17, to receive the sliding lock rods 15, when the evener board is lowered to its horizontal position resting upon the supports 12, as shown in Figure 3. The supports 12 are themselves supported by levers 18, rotatably mounted in the base of the machine, as shown, and designed to be actuated simultaneously by rotating the hand lever 19. In normal position these levers 18 support the supports 12 in a slightly inclined position from the horizontal so that when the evener board is swung downwardly onto the supports 12 it will be on a horizontal plane in line, or practically so, with the base of the assembly platform 20, of the machine. When the supporting levers 18 are slightly rotated, until they strike and rest against the legs 13, the forward ends of the supports 12 are automatically lowered, and the evener board assumes the position shown in Figure 4 where it will be out of the way of the operator.

The different positions in which my evener board may be placed, as hereinbefore shown and described, are very advantageous as it is not only necessary for it to operate as an evener board, but also desirable to use it as a table on which the binding, by sewing, riveting or the like, may be completed, and it is also necessary to remove it out of the way of the operator at certain stages of the binding operation.

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

1. In a book binding machine a device for evening the papers to be bound, comprising an evener board mounted to the standards of the machine; means to position and retain the evener board in a substantially vertical plane and in advance of the standards of the machine; means to lower the evener board from the substantially vertical position to a substantial horizontal position projecting forwardly from the standards of the machine; means to retain the evener board in the said substantially horizontal position, substantially as shown and described.

2. In a book binding machine an evener

board comprising standards; supports for an evener board, hinged to the forward ends of the standards; an evener board hinged to the said supports; bell-cranks to retain the supports in normal position, the construction and assembly of the board, supports, standards and bell-cranks being such that the board may be positioned in a substantially vertical position, or in a substantially horizontal position, the bell-cranks functioning to retain the supports normally in the substantially horizontal position, and to further permit the inner ends of the supports to drop downwardly; legs on the outer ends of the supports; means to lock the evener board in its substantially vertical position, substantially as shown and described.

In testimony whereof I have signed the foregoing specification.

CHARLES F. McBEE.

Witnesses:
L. D. VORE,
H. R. RAMSEY.