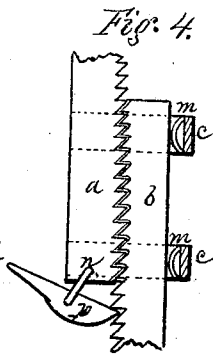
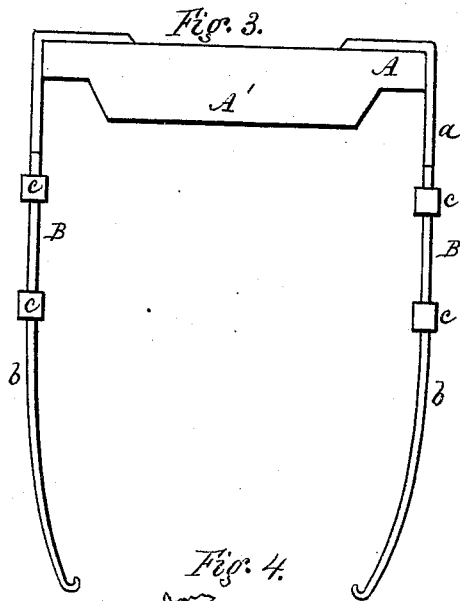
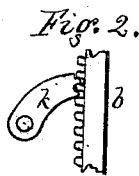
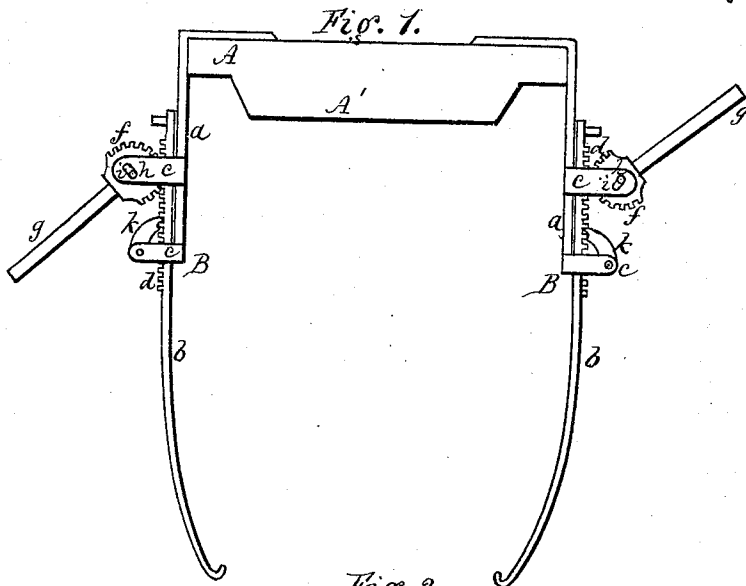


C. F. WEAVER & J. W. GOSS.
 Improvement in Barrel-Headers.

No. 130,090.

Patented July 30, 1872.



Witnesses.
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 A. Mandeville

Inventors.
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UNITED STATES PATENT OFFICE.

CHARLES F. WEAVER AND JOHN W. GOSS, OF ROCHESTER, ASSIGNORS TO
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IMPROVEMENT IN BARREL-HEADERS.

Specification forming part of Letters Patent No. 130,090, dated July 30, 1872.

Specification describing a certain Improvement in Apparatus for Packing Fruit, &c., in Barrels, invented by CHARLES F. WEAVER and JOHN W. GOSS, both of the city of Rochester, in the county of Monroe and State of New York.

Nature of the Invention.

Our invention consists in constructing the straps that form the clamping-arms in two parts each, and so arranging them that they draw together to produce the pressure, as hereinafter described.

General Description.

In the drawing, Figure 1 is an elevation of our improvement; Fig. 2, a view showing one of the detents and racks; Fig. 3, a view similar to Fig. 1, but showing a modification of the clamping-arms; Fig. 4, an elevation of the straps of one of the arms in Fig. 3.

In general form this device is similar to others now in use. A is a cross-head having the follower A' entire with it, but projecting downward sufficiently to press the head of the barrel in place before the cross-head strikes the chimes. B B are the clamping-arms, connecting with the cross-head at one end and extending downward sufficiently far to engage with the bottom of the barrel. These arms are each made of two straps, *a b*, which have an end motion toward each other to produce the pressure, and connected together so as to be operated by leverage of any kind.

In Fig. 1 one strap rests outside the other, and is retained by loops *c c*, so as to freely slide up and down. It has a cog-rack or ratchet, *d*, with which engages a cog-segment, *f*, operated by handle *g*. The journals *h* of the segment rest in inclined slots *i* of the bearing in such a manner that the teeth of the segment and rack engage in going up, but disengage when the former goes down for a new hold. The two positions are shown at the left and right in Fig. 1. A detent, *k*, is also connected with the straps of each clamping-arm, so as to catch into and hold the rack as it is elevated by the segment, or to retain it at any given position. The point of this detent has preferably two or more holding-teeth, as

shown in Fig. 2, so as to secure a firmer hold and allow a shorter adjustment.

An equivalent form is shown in Figs. 3 and 4, in which the edges of the two straps on each side fit together, and are provided with intermatching ratchet-teeth instead of the detent and rack shown in Fig. 1. One or more of the loops *c c* have springs *m m*, for pressing the straps together to retain the engagement. With the lower end of the upper strap is connected a bearing, *n*, to which is hung a lever-pawl, *p*. The lower end of this pawl is made weighted, so as to gravitate. A pressure applied to the outer end of the pawl will force the straps together, and the engagement will be effected by the springs, as before described.

Other forms of forcing the straps toward each other might be used with the same result.

Heretofore, so far as we are aware, the clamping-arms have been in a single length from top to bottom, and a screw, cam, or similar device, has been used to press the follower down upon the barrel-head. The essential novelty in our device consists in the making of the arms in two parts each, and drawing them together by leverage to produce the pressure. This method has some advantages over the old one, and the apparatus can be cheaply and easily made, and is convenient in use.

Claims.

1. In a barrel-header, the clamping-arms, constructed each of separate straps *a b*, which are operated by leverage to produce the pressure, substantially as specified.

2. We also claim, in a barrel-header, the cross-head A formed with the follower A' projecting therefrom, in combination with the sectional clamping-arms, substantially as and for the purpose set forth.

In witness whereof we have hereunto signed our names in the presence of two subscribing witnesses.

CHARLES F. WEAVER.
JOHN W. GOSS.

Witnesses:

R. F. OSGOOD,
A. MANDEVILLE.