(No Model.)

E. EVANS.

SHOCK BINDER.

No. 247,183. Patented Sept. 20, 1881.

Fig. 1.

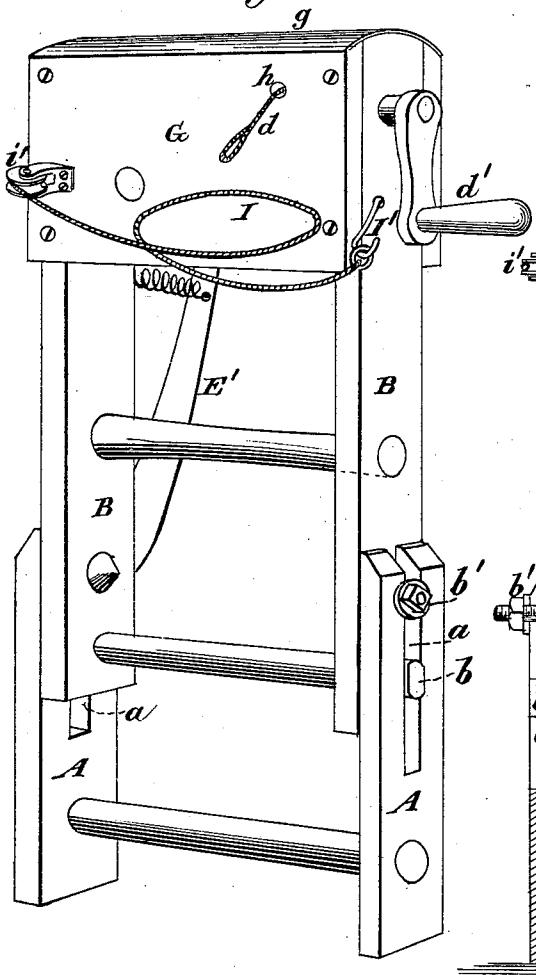


Fig. 2.

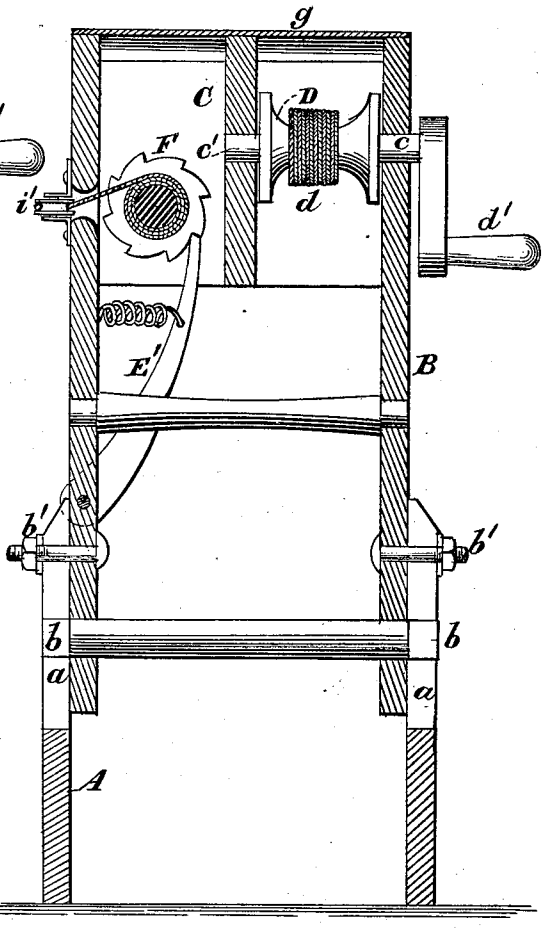
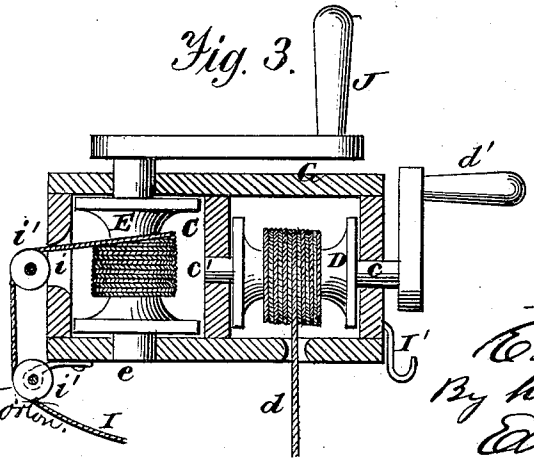


Fig. 3.



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UNITED STATES PATENT OFFICE.

ELI EVANS, OF LEMERET, OHIO.

SHOCK-BINDER.

SPECIFICATION forming part of Letters Patent No. 247,183, dated September 20, 1881.

Application filed June 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, ELI EVANS, a citizen of the United States, residing at Lemeret, in the county of Crawford and State of Ohio, have invented certain new and useful Improvements in Shock-Binders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form a part of this specification.

The invention relates to a device for binding shocks of corn, grain, or the like; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claim.

In carrying out the invention I employ a suitable base, preferably slotted standards, in the slots of which operate means for adjusting the height of the operating parts at will. These parts consist, essentially, of a frame, the upper portion of which is housed and partitioned to form journals for two windlasses arranged at right angles with each other, the cranks of which are external to the housing. One of these windlasses is journaled transversely to the frame, has a ratchet-disk and a spring-pawl pivoted to the frame. It carries a looped rope, which passes through a rounded aperture in one end of the frame over guide-pulleys around the quantity of stalks to be compressed, and the free end, which carries the loop, is engaged over a hook upon the opposite side. The crank is then turned until the material is sufficiently compressed, the pawl and ratchet holding all the slack taken up. The binding-cord is then unwound from the other spool, passed around the shock, and tied, the holding and compressing means liberated, the bound shock removed, and the device placed in position for a similar operation with another shock. The binding-cord is upon a spool, and passes through an aperture in the face of the frame.

It will be observed that the cord and journals are properly protected from the weather, and that the top of the housed portion is oval to shed rain.

To enable others skilled in the art to make and use the invention, I will describe the construction and mode of operation of the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 represents a perspective view of the invention, showing the compressing means in operation; Fig. 2, a vertical section, partly in elevation; and Fig. 3, a horizontal section.

Referring to the drawings, in which similar letters of reference indicate like parts in all the figures, A represents the base, having vertical slot *a*, in which traverse the extended ends *b'* of a cross-bar, *b*, in frame B, and a threaded bolt, b^2, by means of which the frame B may be adjusted to any desired height at will.

Journaled at *c* in the frame, and at *c'* in the partition C, is a spool, D, which carries the binding cord or wire *d*, and a crank, *d'*, is hung upon the shaft outside.

Journaled transversely at *e* is a compressing-spool, E, having a ratchet, F, in which operates a spring-pawl, F', pivoted to the frame at *f*.

The frame has an oval top, *g*, and sides G, the front one of which is perforated at *h* to allow the ready passage of the binding-cord *d* in convenient reach of the operator.

The compressing-cord I passes through an aperture, *i*, in one end of the frame over guide-pulleys *i'*, and the looped end engages a hook, I', upon the opposite end of the frame. An operating-crank, J, allows the shock to be compressed, the pawl and ratchet taking up the slack and holding the same until the shock is bound and secured by the cord or wire *d*.

From this description the operation of the device is obvious. It is readily transported from one place to another, is easily adjusted, and serves very efficiently for the desired purpose.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The shock-binder herein described, consisting of the adjustable frame B, having housing G *g*, provided with perforations *h i* and partition C, the spool D, for carrying the binding-cord *d*, ratcheted spool E F, crank J, pawl E', guide-pulleys *i'*, compressing-rope I, and hook I', the whole constructed, arranged, and adapted to serve as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ELI EVANS.

Witnesses:

R. T. GARRIGUES,

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