

(No Model.)

J. L. HALL.

ALARM ATTACHMENT FOR BALING PRESSES.

No. 301,883.

Patented July 15, 1884.

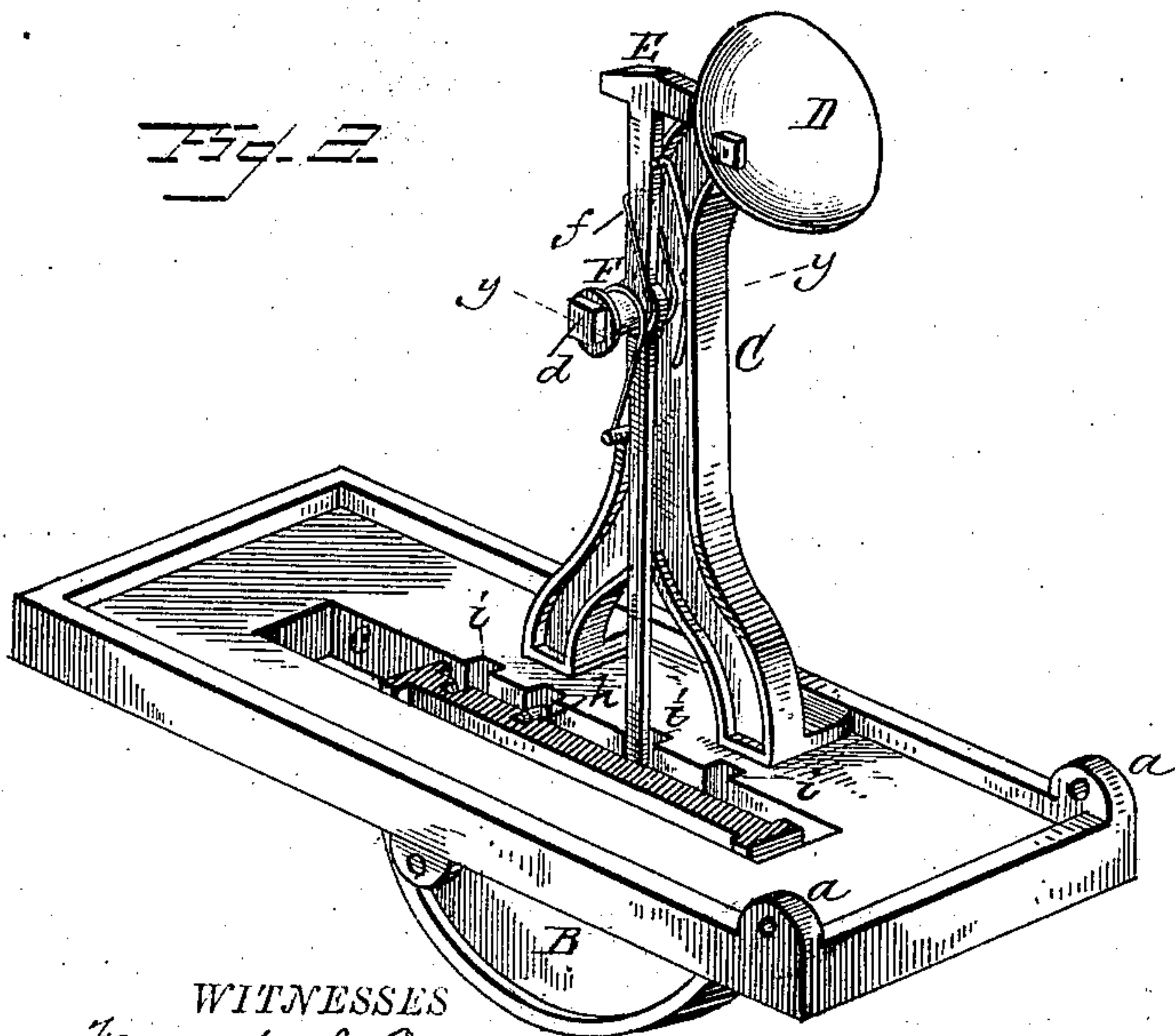
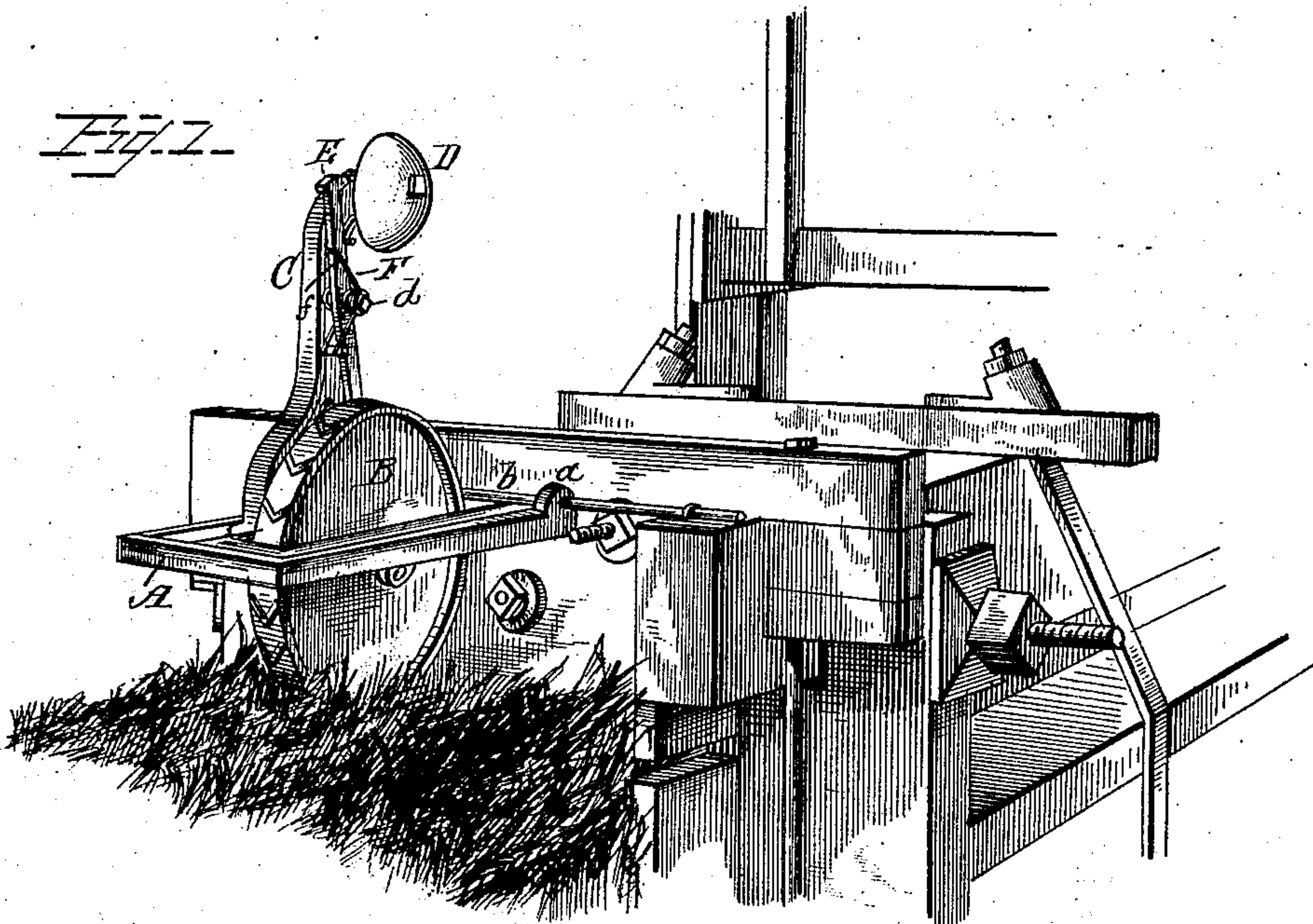
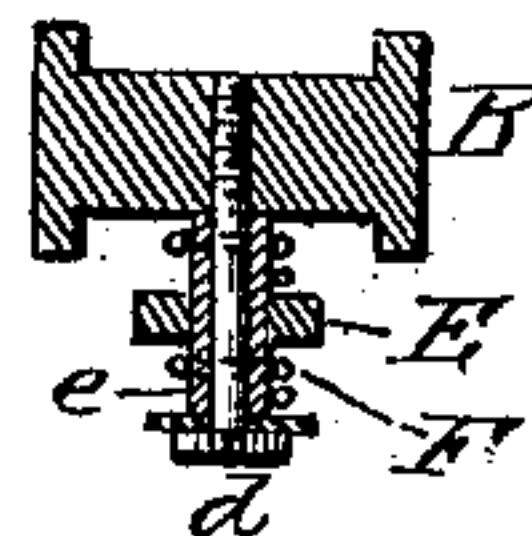


Fig. 3.



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ALARM ATTACHMENT FOR BALING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 301,883, dated July 15, 1884.

Application filed May 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. HALL, a citizen of the United States, residing at Colony, in the county of Anderson and State of Kansas, have invented certain new and useful Improvements in Alarm Attachments for Baling-Presses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view showing my invention applied to a baling-press. Fig. 2 is a perspective view of the alarm attachment on an enlarged scale; and Fig. 3, a cross-section in detail, taken on line *y y* of Fig. 2.

The present invention has relation to alarms for baling-presses; and the object thereof is to provide an alarm device that may be readily applied to what is known as the "perpetual baling-press," and is especially adapted thereto for regulating and obtaining a uniformity in the length of the bale as it is delivered from the press, giving a warning to the attendant when to drop a follower or bale-head and begin the formation of another bale.

The construction of the alarm device and its application to a baling-press will be hereinafter described, and subsequently pointed out in the claims.

In Fig. 1 I have shown the end only of what is termed a "perpetual baling-press" used for baling hay or other material, and as the press may be of that class most used any further description of it is considered unnecessary.

The alarm attachment consists of a rectangular frame, A, provided with ears *a*, through which passes a rod, *b*, having its ends secured to the side beams of the press. This hinging or pivoting of the frame A enables it to be swung up out of the way when the alarm is not in use, or for other purposes, this being a decided advantage. The frame A has a central elongated opening, *c*, in which is located the frictional roller B, said opening being of such length that rollers of increased diameter and circumference can be substituted when desired to have the bales of greater length, as will be hereinafter more fully described. The

frame A is provided with a standard, C, to the upper extremity of which is attached a bell, D. A suitable hammer, E, is connected to the standard C in the following manner, the shank of the hammer extending down near the slot or opening *c* of the frame: To the standard C is removably connected a screw-rod, *d*, over which is placed a sleeve, *e*, and over this sleeve is placed the hammer E, the shank thereof being formed with an eye or opening sufficiently large for the purpose. Around the sleeve *e*, upon both sides of the hammer E, is coiled a spring, F, it being bent above the sleeve to form a yoke, *f*, and below the sleeve the free ends of the spring bearing against a pin, *g*, projecting from the side of the standard. The yoke *f* of the spring F bears with considerable force against the shank of the hammer E, and retains it in an upright position, as shown in Fig. 2. As the roller B revolves, a pin, *h*, upon the side thereof will be brought in contact with the shank of the hammer, which will throw or force outward the upper end thereof, and as the pin is carried around, the spring F will cause the hammer to be brought against the bell D with such force as to strike an alarm.

The sleeve *e* and the peculiar construction of the spring F are both essential elements in the device, the sleeve being so formed as to turn with the hammer. By removing the screw-threaded rod *d*, the spring, hammer, and sleeve can all be detached from the standard, as may also the bell D.

The tripping-pin *h* is made preferably removable, and can be reinserted in a hole nearer the periphery of the roller, so as to increase the power of the hammer against the bell when the pin strikes it. A series of grooves, *i*, are provided for this purpose, and also to adapt the frame A to rollers of varying sizes, the grooves also allowing the change in position of the pin.

In order to increase the frictional surface of the roller B and the hay or other material being baled, the periphery I form with V-shaped ribs *k*, as shown in Fig. 1, so as to prevent the danger of the slipping of the roller when the hay is passing through the press. As the roller has completed one revolution, the pin in the side of said roller will cause the bell to

be sounded, as hereinbefore described, thus giving notice to the man feeding the press to drop a follower or bale-head in the press and begin the formation of another bale.

5 Any desired length of bale can be obtained by taking out one roller and substituting another of different diameter, thereby overcoming completely the want of uniformity in the length of the bales, caused by the negligence
10 of the attendant in not watching when the balé is made. The alarm attachment relieves entirely the attention of the feeder or attendant to the forming of the bale, thereby enabling him to do more work in a given time, and
15 have all the bales uniform in length, and consequently very nearly so in weight. The frame, with the alarm, can be readily detached from the press and removed by withdrawing the rod that is connected to the beams, and can be as
20 conveniently replaced without any annoyance or trouble in the use of tools.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

25 1. The combination, with a perpetual baling-press, of an alarm attachment consisting

of a slotted frame hinged or pivoted thereto and removable therefrom, said frame having a roller revolving in the slot, and carrying a pin which operates an alarm composed of a
30 hammer and bell connected to a standard on the frame, substantially as and for the purpose set forth.

2. The combination, with a perpetual baling-press, of an alarm attachment consisting
35 of a slotted frame containing a removable roller carrying a pin secured to its side, a standard projecting from the frame provided with a bell and hammer, the latter being connected thereto by a screw-rod, sleeve, and a
40 spring coiled around the sleeve and bent to form a yoke to press against the shank of the hammer and force it against the bell when released by the pin in the side of the roller, substantially as and for the purpose set forth.
45

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN L. HALL.

Witnesses:

JOSEPH S. RUSSELL,

JOHN W. BUSH.