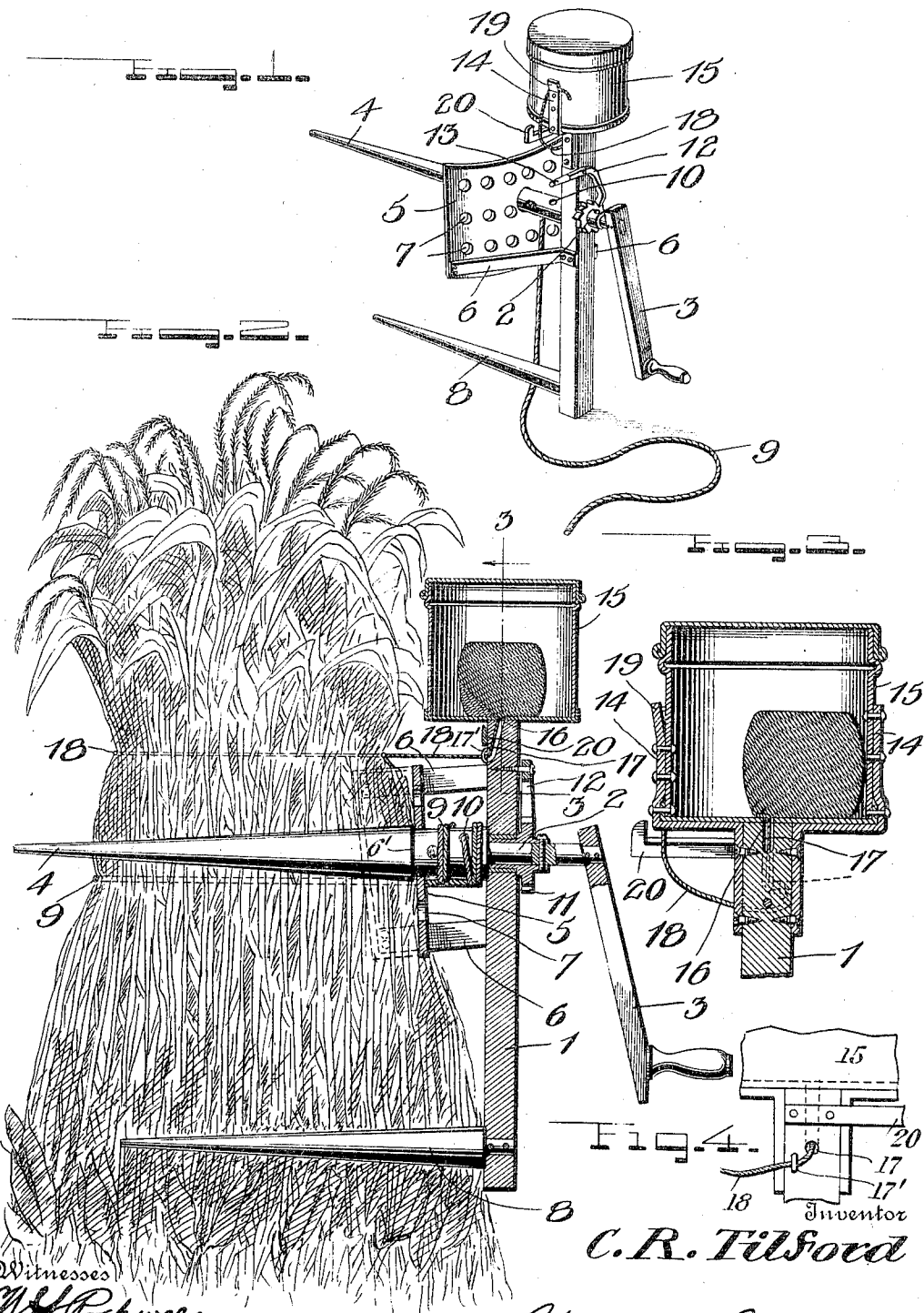


C. R. TILFORD.
SHOCK TYING DEVICE.
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1,038,988.

Patented Sept. 17, 1912.



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SHOCK-TYING DEVICE.

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To all whom it may concern:

Be it known that I, CHARLEY R. TILFORD, a citizen of the United States, residing at Tullahoma, in the county of Coffee and State of Tennessee, have invented new and useful Improvements in Shock-Tying Devices, of which the following is a specification.

This invention relates to shock tying devices, and it has for its object to produce a simple, durable and efficient device by means of which corn shocks may be quickly and securely tied.

A further object of the invention is to provide a simple and effective device of the class described which may be conveniently applied to a shock in position for operation and removed after the shock has been tied for use in connection with another shock.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawing,—Figure 1 is a perspective view of a device constructed in accordance with the invention. Fig. 2 is a vertical sectional view of the same taken axially through the winding shaft, and showing the device applied to a corn shock of which only the upper portion is shown. Fig. 3 is a sectional detail view taken on the line 3—3 in Fig. 2. Fig. 4 is a detail view in elevation of a small portion of the device including the upper end of the base or body of the device.

Corresponding parts in the several figures are denoted by like characters of reference.

The base or body of the improved tying device consists of an upright 1 of suitable dimensions, said upright being provided near its upper end with a bearing for a shaft 2 having at one end a crank 3 where- by it may be turned, and provided on the

opposite side of the post or upright with a conical pin 4, which latter extends through an arcuate shield or breast plate 5, said breast plate being supported on the upright 1 by means of suitable braces 6. The shield or breast plate may be perforated, as shown at 7, and the pin 4 is provided with a shoulder or offset 6' engaging the shield or breast plate to keep the latter from being pressed inward against the shock or from being otherwise displaced when the device is in operation. Adjacent to its lower end the upright 1 is provided with a conical pin 8 which is disposed with its axis in approximate parallel relation to the axis of the pin 4. That portion of the pin 4 which lies between the upright 1 and the shield 5 constitutes a winding drum with which one end of a tightening cord 9 is permanently connected, said drum portion being also provided with an aperture 10 or other convenient means for the temporary attachment of the free end of the tightening cord. The shaft 2 is provided with a ratchet wheel 11 that is engaged by a pawl 12 which is pivoted on the upright 1, said pawl being provided with a thumb piece or handle 13 to enable it to be conveniently manipulated by the operator.

Secured upon the upper end of the upright 1 by means of straps 14 is a twine can or receptacle 15, the bottom of which has an opening 17 that extends obliquely through the upper portion of the upright 1 for the passage of the binding twine. Suitably located adjacent to the outlet of the passage 17 is a keeper or staple 17' constituting a guide for the twine 18. The upper end of one of the straps 14 is bent outward from the body of the can or receptacle to form an inclined ear 19 between which and the body of the can or receptacle the end of the twine may be wedged and held securely after the portion needed to tie a shock has been cut off. A twine cutting blade 20 is also suitably attached to the upper end of the upright 1.

In the operation of this invention, the conical pins 4 and 8 are driven into the shock until the shield or breast plate 5 abuts upon the latter just below the place at which it is desired to tie the shock. The tightening cord 9, together with the end of the tying cord or twine, is now carried around the shock, and the free end of the

tying cord or twine is wedged between the ear or catch 19 and the body of the receptacle 15, the free end of the tightening cord being inserted through the aperture 10, and thus temporarily connected with the drum portion of the pin 4. The shaft 2 is now rotated to wind the tightening cord on the drum portion until the shock has been sufficiently tightened, the parts being retained in position by the pawl 12 engaging the ratchet 11. The free end of the twine is now removed from the catch or ear 19, and the twine is tightly knotted about the shock, the portion of twine required for tying the shock being severed by means of the blade 20 either before or after tying the knot. The operation being thus completed, the pawl 12 is released from the ratchet 11, and the tightening cord is unwound, after which the device may be removed and applied for another shock.

As will be seen from the foregoing description, taken in connection with the drawing hereto annexed, I have provided a simple and efficient shock tying device which may be readily carried from one shock to another and by the use of which a shock may be securely tied in a very rapid and satisfactory manner.

Having thus described the invention, what is claimed as new, is:—

1. In a shock tying device, an upright, a curved shield connected with and spaced from said upright, a shaft supported for rotation on the upright and having at one

end a conical pin extending through the shield and at the other end a crank, that portion of the conical pin which is located between the shield and the upright constituting a drum, a tightening cord having one end permanently connected with the drum, said drum being provided with a perforation with which the other end of the tightening cord may be detachably connected, and a shock engaging pin connected with and extending from the lower end of the upright.

2. In a shock tying device, an upright, a curved shield connected with and spaced from said upright, a shaft supported for rotation on the upright and having at one end a conical pin extending through and provided with a shoulder abutting upon the shield and at the other end a crank, that portion of the conical pin which is located between the shield and the upright constituting a drum, a tightening cord having one end permanently connected with the drum, said drum being provided with a perforation with which the other end of the tightening cord may be detachably connected, and a shock engaging pin connected with and extending from the lower end of the upright.

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

CHARLEY R. TILFORD.

Witnesses:

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