C. W. BLOCK.

HITCHING DEVICE.

APPLICATION FILED JAN. 12, 1915.

1,153,188. Patented Sept. 14, 1915.

Fig. 1.

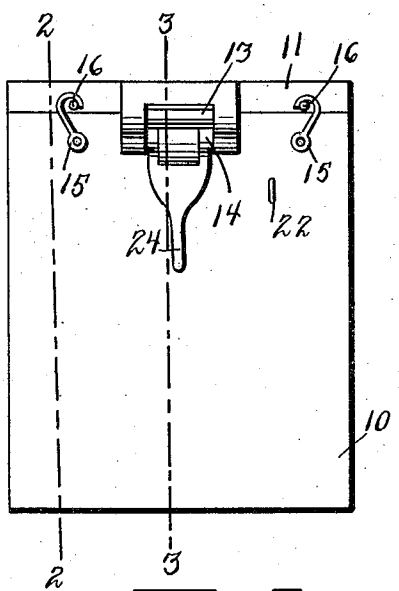


Fig. 2.

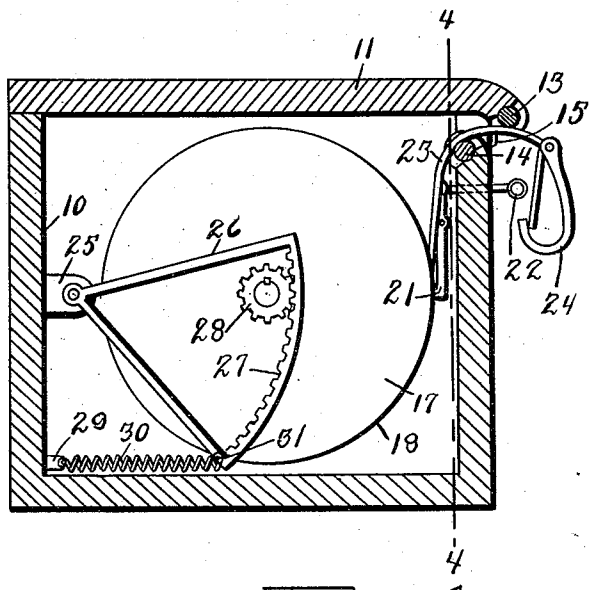


Fig. 3.

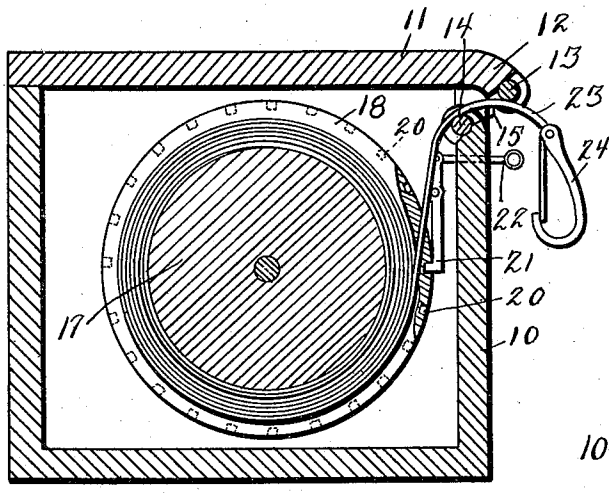
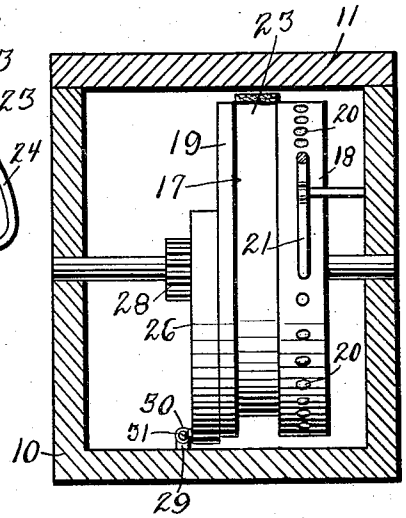


Fig. 4.



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Witnesses

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HITCHING DEVICE.

1,153,188. Specification of Letters Patent. Patented Sept. 14, 1915.

Application filed January 12, 1915. Serial No. 1,856.

To all whom it may concern:

Be it known that I, CHARLES W. BLOCK, a citizen of the United States, residing at Neenah, in the county of Winnebago, State of Wisconsin, have invented certain new and useful Improvements in Hitching Devices; 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.

This invention relates to improvements in hitching devices.

One object of the invention is to provide a simple device of this character in which the hitching strap is automatically wound into the weight.

Another object is to provide novel means for winding the strap into the weight.

Other objects and advantages will be apparent from the following description when taken in connection with the accompanying drawings.

In the drawings: Figure 1 is a front elevation, Fig. 2 is a vertical sectional view on the line 2—2 of Fig. 1, Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 1, and Fig. 4 is a vertical sectional view on the line 4—4 of Fig. 2.

Referring particularly to the accompanying drawing, 10 represents a box which may be made of any suitable material but preferably metal so that it will possess considerable weight. A cover 11 is hinged to the upper side of the box and centrally of the free edge of the cover there is a downwardly and outwardly projecting lip 12 which carries a transversely arranged roller 13. The upper edge of the box, below the free edge of the cover is turned inward slightly and also carries a roller 14. Hooks 15 are provided for engagement with pins 16 to hold the cover in closed position. Rotatably mounted within the box is a drum 17, the flange 18 of which is slightly thicker than the flange 19 and has formed on its peripheral face a plurality of openings 20. These openings are adapted to receive the inturned end of a pivoted detent 21 mounted on the inner face of the front wall of the box. Pivotally connected to the upper end of the detent and extending through the wall of the box is an operating rod 22 by means of which the detent may be rocked to engage and disengage the lower end of the detent with respect to the flange of the drum. Secured at one end to the drum and wound thereon is a hitching strap 23, the other end of which is passed between the rollers 13 and 14 and has its terminal provided with a snap hook 24 for engagement with the ring of a bridle as will be readily understood. On the inner face of the rear wall of the box is a bracket 25 on which is pivotally mounted the apex of a quadrant 26. The curved base of the quadrant is toothed as shown at 27, this toothed portion meshing with a pinion 28 carried by one side of the drum. Also mounted on the rear wall of the box and near the bottom is a lug 29 to which one end of a coil spring 30 is secured. The opposite end of the spring is secured to a lug 31 formed on the lower angular side of the quadrant. This spring normally contracts and swings the quadrant down on its pivot so that the upper portion of the toothed base is normally in mesh with the pinion 28. When the strap 23 is pulled through the opening between the rollers 13 and 14, the drum will be turned so that the strap will be unwound. This turning of the drum rotates the pinion 28 and swings the quadrant upwardly on its pivot against the tension of the spring 30. When the strap is released the spring 30 will draw the quadrant down again turning the drum and rewinding the strap. By pushing in the operating rod 22 the detent can be released from the flange of the drum so that the strap can be readily pulled out or permitted to rewind within the box.

What is claimed is:

In a device of the class described, a drum rotatably mounted in the box and carrying a pinion, a quadrant pivotally mounted at its apex within the box and having its curved base provided with teeth meshing with the pinion, a strap wound on the drum, a detent for the drum and a resilient element connected to the box and to the quadrant for rotating the drum to rewind the strap.

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

CHARLES W. BLOCK.

Witnesses:
JOHN F. KUHR,
S. A. COOK.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."