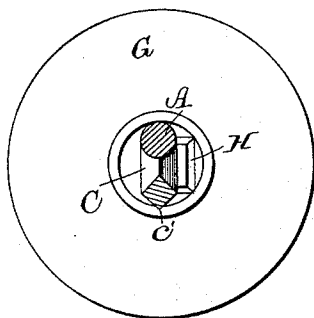
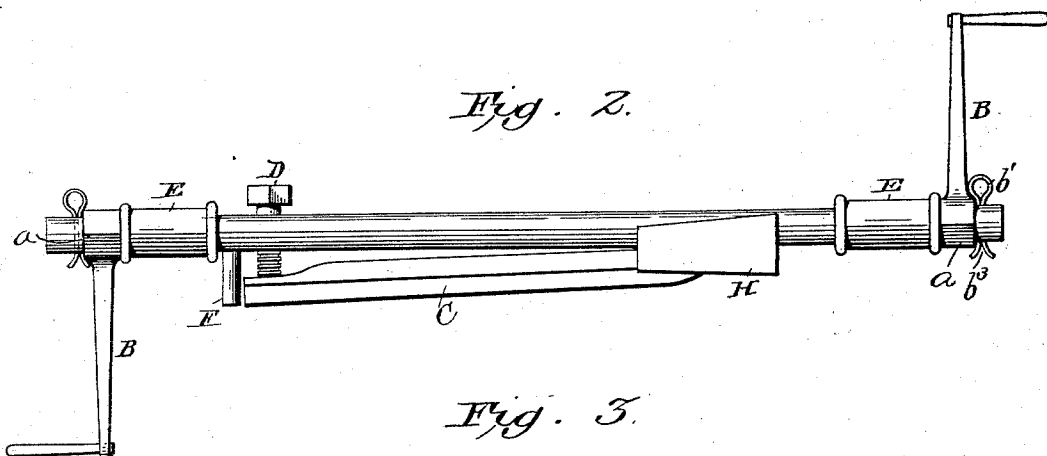
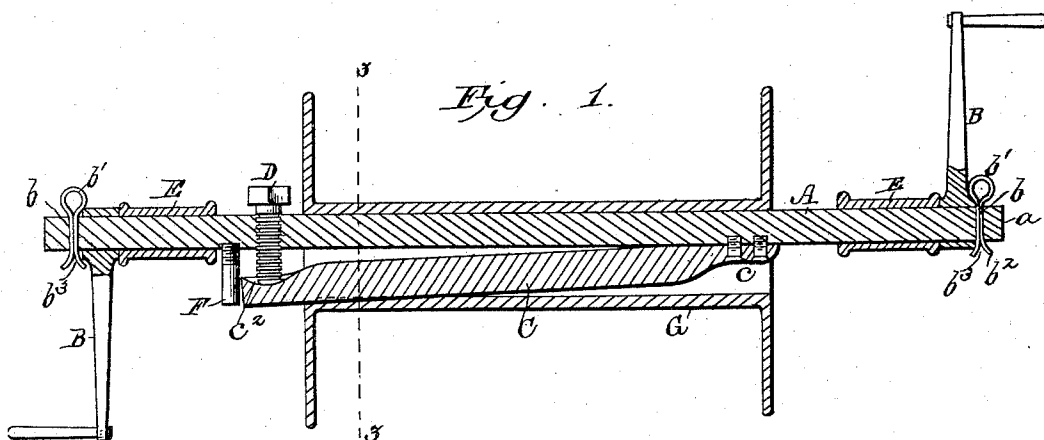


(No Model.)

H. HANSON.
WIRE REEL HOLDER.

No. 485,275.

Patented Nov. 1, 1892.



Witnesses

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UNITED STATES PATENT OFFICE.

HANS HANSON, OF MANKATO, MINNESOTA.

WIRE-REEL HOLDER.

SPECIFICATION forming part of Letters Patent No. 485,275, dated November 1, 1892.

Application filed May 9, 1892. Serial No. 432,326. (No model.)

To all whom it may concern:

Be it known that I, HANS HANSON, a citizen of the United States, residing at Mankato, in the county of Blue Earth and State of Minnesota, have invented certain new and useful Improvements in Wire-Reel Holders; 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.

My invention relates to holders for reels of wire used in making fences and for similar purposes and generally adapted to be carried in the hands of two operators putting up the fence and in such a manner that the wire is unwound from the reel as fast as it is needed in the progress of the work.

The object of my invention is to construct the reel-holder so that a fresh reel of wire may be mounted in the holder speedily and with the minimum expenditure of labor, and as readily removed to make place for a new reel when exhausted. For this purpose my invention consists in the devices and combination of parts now to be described, and to be covered in the claims.

In the drawings accompanying this description, which show a reel-holder embodying my invention in what I consider its preferred form, Figure 1 represents a vertical longitudinal section of the same with a reel of wire in place thereon; Fig. 2, a side elevation thereof; Fig. 3, a transverse section on line 3 3, Fig. 1.

In the drawings the same letters of reference designate the same parts in all the views.

By referring to the said drawings it will be noted that my reel-holder consists of a shaft A, of any suitable material, the said shaft being provided at each end with a crank B, of any desired form or size, which cranks fit on and are removably secured to the squared ends *a* of the shaft A by the split spring-pins *b* or any other suitable securing device. The split pins *b*, it will be observed, each consist of a bent piece of metal bent into a loop or eye *b'* to form the head and terminating in the two adjacent legs *b² b³*, which flare or diverge at their ends *b³ b³*, so that when the spring-pin has been thrust through the holes in the crank B and the squared ends of the

shaft these ends will separate and be retained in place.

The middle portion of the shaft A is adapted to receive and hold the reel of wire to be mounted thereon, as indicated in Fig. 1. The device for retaining the reel consists, essentially, in a spring-bar C, bolted to the shaft A at one end *c*, and presenting an angular edge *c'* outwardly, so as to bite into the bore of the wire reel or spool G, so as to retain the same securely against rotation. For this purpose the bar C is preferably square in cross-section, as shown.

A set or binding screw D is threaded into shaft A, and its end bears against and forces outwardly the free end of the retaining-bar C, preferably engaging a recess *c²* therein.

The shaft A is preferably provided on both sides of the bar C with loose flanged sleeves E, whose purpose is to enable the operators to hold the reel-holder without interfering with its rotation, and at the same time to protect their clothes and persons. I preferably arrange a pin F between the one sleeve E and the set-screw D, so as to prevent any interference of one with the other; but this pin may in many instances be dispensed with.

The operation of my reel-holder is as follows: When a reel of wire has been exhausted, I remove the crank B at that end of the shaft near which the bar C is bolted thereto by withdrawing the split spring-pin *b*. I then slip off the one sleeve E, and by unscrewing the set-screw D release the wire-reel spool G, and withdraw the same. I then slip another spool containing a full reel of wire in its place, tighten the set-screw D, and restore the sleeve E and crank B to their proper positions, when the reel-holder is ready for operation. It is operated by two operators, each of whom grasps one of the flanged sleeves E with one hand and the adjacent crank B with the other hand, the operators then proceeding away from the point of attachment of the wire, which they maintain taut by exerting the necessary pressure upon the cranks B.

The clamping device, consisting of the spring-bar C and the binding-screw D, adapts my wire-reel holder to be applied to spools having bores of varying diameters, and while it allows ready removal from or insertion in the wire-reel spool affords a very effective

means for clamping the same in place when in use. With this spring-bar it is not necessary to confine one's self to spools of one given bore, nor to provide such spools with special arrangements for holding them against rotation on the shaft of the reel-holder.

In some cases I find it desirable, though not indispensable, to insert a wedge H between the spool G and the shaft A and bar C before putting the sleeve and crank in place on the shaft A. It will be readily seen that this adds to the security with which the spool G is held against rotation on the shaft A, though in most cases the squared bar C is amply sufficient for this purpose.

While I have herein shown what I consider the best embodiment of my invention, I do not desire to be confined to the same, as it may, manifestly, be varied in many particulars without departing from my invention; but

What I claim, and desire to secure by Letters Patent, is—

1. In a wire-reel holder, a shaft, as A, in combination with a retaining-bar secured thereto at one end and means interposed between the free end of the bar and the shaft to force outwardly the said free end of the bar, substantially as set forth.

2. In a wire-reel holder, a shaft, as A, in combination with a retaining-bar secured thereto at one end and a set-screw threaded into the shaft and bearing against the free

end of the retaining-bar, substantially as set forth.

3. In a wire-reel holder, a shaft, as A, in combination with a squared bar secured thereto at one end and a set-screw threaded into the shaft and bearing against the free end of the squared bar, substantially as set forth.

4. In a wire-reel holder, a shaft, as A, having a retaining-bar secured thereto at one end and a set-screw between the shaft and the retaining-bar, in combination with a wire-reel spool and a wedge interposed between the spool and the shaft, substantially as set forth.

5. In a wire-reel holder, a shaft, as A, a retaining-bar secured thereto at one end and means for forcing the free end of the retaining-bar from the shaft, in combination with the sleeves, as E, loosely mounted on the ends of the shaft, substantially as set forth.

6. In a wire-reel holder, a shaft, as A, a retaining-bar secured thereto at one end and means for forcing the free end of the retaining-bar away from the shaft, in combination with the sleeves, as E, loosely mounted on and cranks secured to the ends on the shaft, substantially as set forth.

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

HANS HANSON.

Witnesses:

C. L. BENEDICT,
Z. Q. A. MARSH.