No. 610,730. Patented Sept. 13, 1898.

J. E. WRIGHT.

RESPOOLING WIRE.

(Application filed Aug. 14, 1897.)

(No Model.)

Fig. 2.

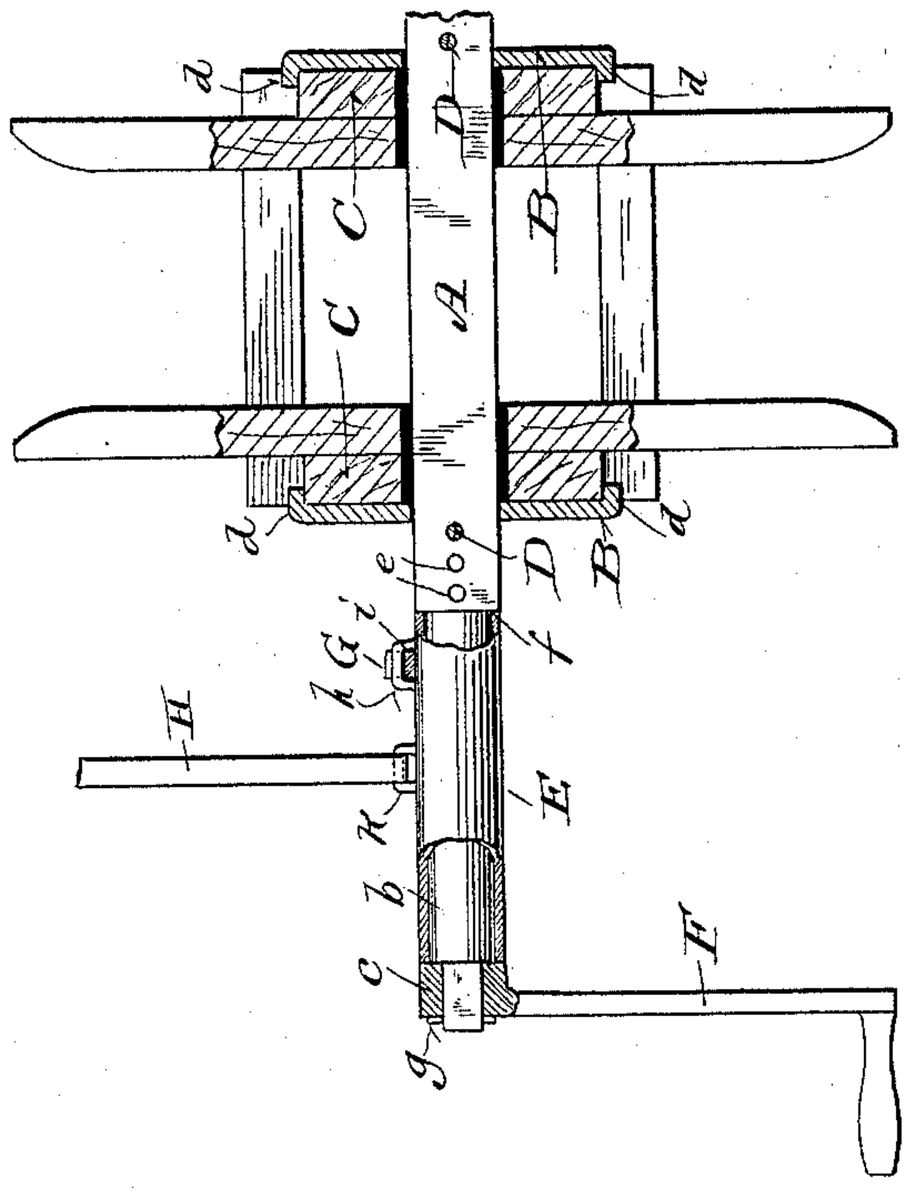
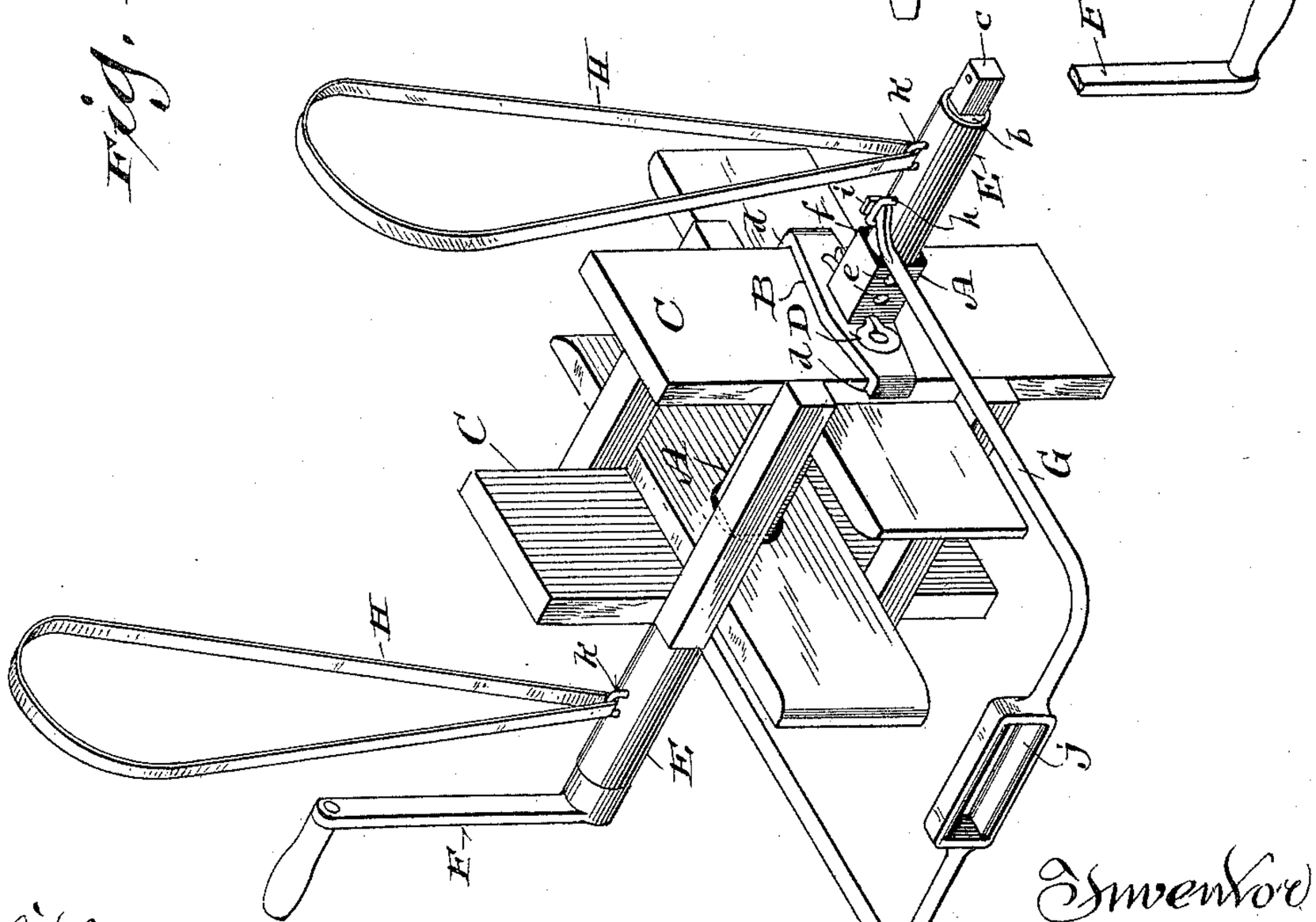


Fig. 1.



Witnesses:
Geo. W. Young
N. E. Oliphant

Inventor:
James E. Wright.
By H. G. Underwood.
Attorney

UNITED STATES PATENT OFFICE.

JAMES E. WRIGHT, OF FALL RIVER, WISCONSIN.

RESPOOLING WIRE.

SPECIFICATION forming part of Letters Patent No. 610,730, dated September 13, 1898.

Application filed August 14, 1897. Serial No. 648,244. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. WRIGHT, a citizen of the United States, and a resident of Fall River, in the county of Columbia and State of Wisconsin, have invented certain new and useful Improvements in Respooling Wire; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its especial object to facilitate respooling of fence-wire by hand; and it consists in certain peculiarities of construction and combination of parts hereinafter set forth, with reference to the accompanying drawings, and subsequently claimed.

Figure 1 of the drawings represents a perspective view of an assemblage of parts comprehended by my invention, one of the cranks embodied in the assemblage being partly broken away; and Fig. 2 is a partly-sectional rear elevation of a major portion of the aforesaid assemblage.

Referring by letter to the drawings, A represents an angular central portion of a shaft having journals *b* and angular extremities *c*, these extremities and central portion of said shaft being provided with transverse apertures for the engagement of spring-keys, hereinafter more particularly specified.

In slip engagement with the angular central portion of the shaft are plates B, having inturned right-angle end flanges *d*, these plates constituting clamp-jaws for engagement with bars C of an ordinary fence-wire spool, for which said shaft constitutes an axle. The clamp-jaws B are held in their engagement with the shaft and spool-bars by means of spring-keys D, extended through transverse apertures of said shaft outside of said jaws, and to provide for spools of various widths the apertures *e* for said spring-keys may be in series, as herein shown.

The journals *b* of the shaft turn in bearings E, with which they have slip fit, these bearings being held between shaft-shoulders *f* and cranks F, the latter being in slip fit with the angular extremities *c* of said shaft and held in place thereon by spring-keys *g*, run through suitably-arranged apertures.

Each journal-bearing is provided with an eye *h* for the engagement of the hook end *i* of a yoke G, the latter being provided with a central slotted enlargement constituting a wire-guide *j*, that is forward of the spool in clamp connection with the aforesaid shaft. Each hook end of the yoke is bent to conform to the contour of the journal-bearing against which it has contact, and it requires lift of said yoke to disengage its hook ends from the corresponding eyes on the journal-bearings. Other eyes *k* on the journal-bearings serve for the engagement of suspending-loops H, that are hung from the shoulders of men carrying the respooling mechanism. These loops are shown as permanent parts of the apparatus; but they may be straps adapted for other purposes when said apparatus is not in use.

In practice wire to be respooled is run through the guide *j* and made fast to the spool in clamp with the shaft, after which the men carrying the apparatus walk in the direction of the wire and operate the cranks to turn the shaft and spool toward said wire, whereby the latter is easily and smoothly wound. A spool being filled, the wire-guide yoke, one of the cranks, and the journal-bearing next this crank are removed, so that said spool, after being unclamped, may be slipped off the shaft and an empty spool substituted.

While I have shown one simple practical form of a wire-respooling apparatus, the mechanical details of the same may be somewhat varied without departure from my invention.

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

The combination of a shaft having an angular central portion, journal reductions and angular extremities; clamp-jaws having slip engagement with the angular central portion of the shaft longitudinally of the same, spring-keys inserted in shaft-apertures to hold the clamp-jaws in engagement with a wire-spool on said angular central portion of the shaft, bearings having slip fit on the journal reductions of said shaft against shoulders of the same, cranks detachably held on the angular extremities of the aforesaid shaft against the bearings, eyes extending from these bearings,

a yoke having a central slotted enlargement and provided with end hooks detachably engaging said eyes, other eyes extending from said bearings, and suspending-loops engaging the latter eyes.

In testimony that I claim the foregoing I have hereunto set my hand, at Fall River, in the county of Columbia and State of Wisconsin, in the presence of two witnesses.

JAMES E. WRIGHT.

Witnesses:
GEO. P. STANTON,
T. V. DUNN.