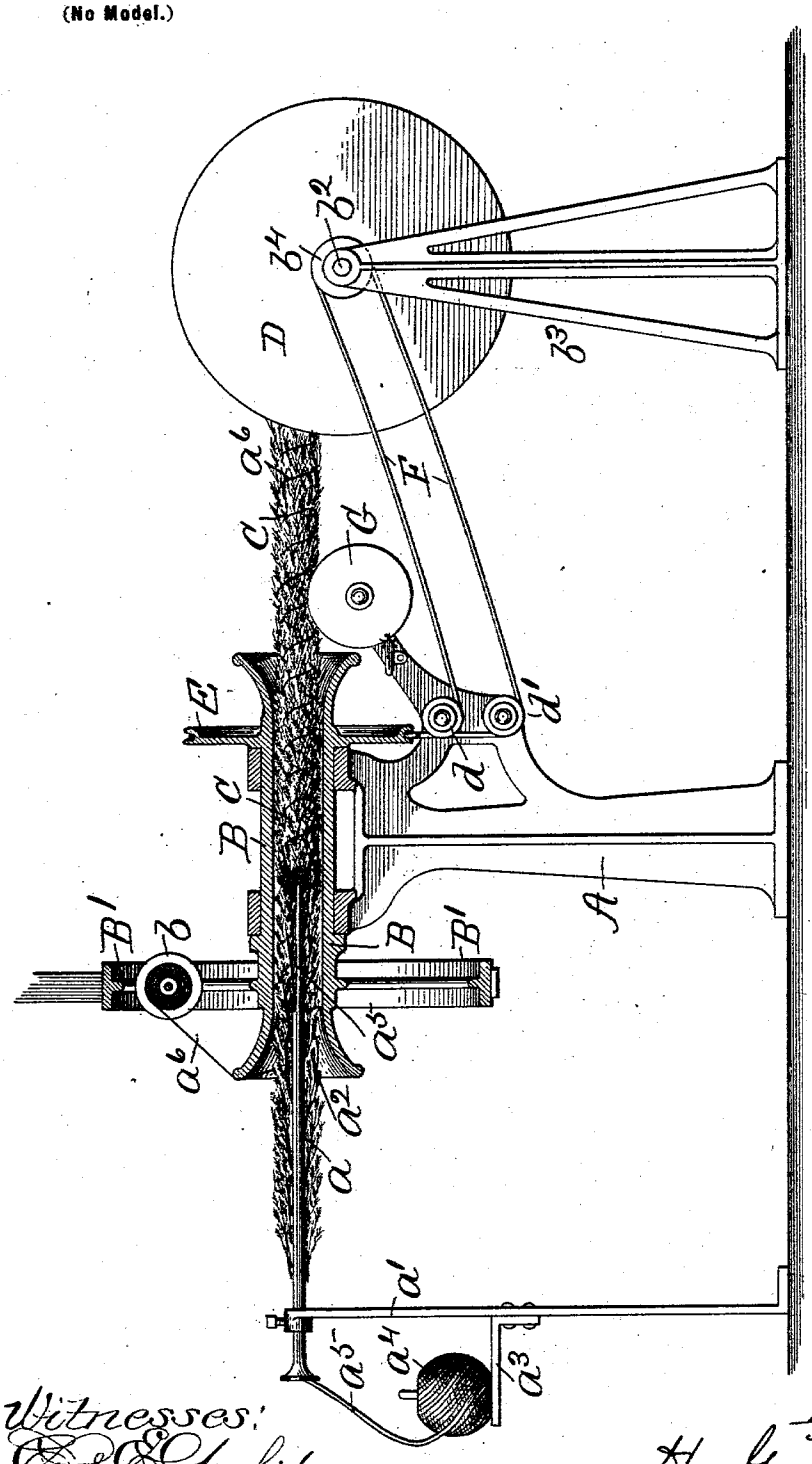
No. 634,050. Patented Oct. 3, 1899.

H. G. WITTBOLD.

MACHINE FOR WINDING EVERGREENS.

(Application filed Dec. 27, 1897.)

(No Model.)



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UNITED STATES PATENT OFFICE.

HENRY G. WITTBOLD, OF CHICAGO, ILLINOIS.

MACHINE FOR WINDING EVERGREENS.

SPECIFICATION forming part of Letters Patent No. 634,050, dated October 3, 1899.

Application filed December 27, 1897. Serial No. 663,666. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. WITTBOLD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Machines for Winding Evergreens; 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 that class of machines or devices used in winding or wiring evergreens to be made into wreaths, &c., and has for its object to provide a machine that will greatly facilitate this kind of work and also bind the evergreens together more uniformly than is possible by hand.

The drawing shows a figure which is a side elevation and part section of a machine embodying the improved features.

A represents the supporting-frame or pedestal on which the principal part of the machine is mounted. A rotatable tube B is journaled in the top of the frame and has a driving-pulley B′ mounted thereon near the front or feed end. This forming-tube is made flaring at each end to facilitate the ingress and egress of the rope of evergreens C passing therethrough. A core-tube a is adjustably mounted in the upper end of a standard a'. The front end of this tube extends some way into the forming-tube and stops short therein. This core-tube is much less in diameter than the forming-tube, so as to leave an annular space a^2 for the free passage of the evergreens. A shelf a^3 is attached to the standard a' and has a ball of cord a^4 rotatably supported thereon. The cord a^5 as it unwinds from its spool passes through the tube a and forms the core in the operation of binding the evergreens together in a continuous rope. A wire-carrying spool b is rotatably mounted on the inside of the driving-pulley B′. The wire a^6, reeled off from the carrying-spool, passes in at the front end of the forming-tube and winds spirally around the evergreens and binds them together in the rope or wreath form shown.

At the rear end of the machine is located a winding-drum D, mounted on a shaft b^2 and journaled in a supporting-stand b^3. A band-pulley b^4 is mounted on shaft b^2. Companion guide-sheaves d d' are journaled in the frame. A larger driving-sheave E is mounted on the rear part of the forming-tube. The required motion for rotating the winding-drum D is transmitted through the medium of a driving-belt F, running from the driving-sheave E on guide-sheaves d d' and around the band-pulley b^2, mounted on the drum-shaft. A guide-roller G is placed intermediate between the machine and the winding-drum and serves to support the moving rope of evergreens.

In working, the branches or twigs of the evergreens are placed by hand on the core-tube and the core-cord made fast to the standing end of the evergreen rope and the end of the binding-wire given a turn around and fastened, so as to draw and unwind from its spool. When the machine is once started, the core-cord and the binding-wire unwind by the action of the machine, the operator merely feeding the evergreens in at the front end of the forming-tube, making the operation continuous, the finished product being drawn through the forming-tube and coiled on the winding-drum. The winding-drum may be dispensed with and the product drawn through by hand.

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

1. In a machine of the kind described, the combination with the supporting-frame, of a rotatable forming-tube, journaled therein, and a core-tube, having one end extending into the forming-tube, substantially as described.

2. The combination with the supporting-frame, of a rotatable forming-tube, journaled therein, a driving-pulley, mounted on said tube, and an adjustable core-tube, having

one end extending into the forming-tube, the binding-wire and the core-cord being automatically drawn through their respective tubes in the operation, substantially as described.

3. The combination with the supporting-frame, of a rotatable forming-tube, journaled therein, a driving-pulley, a core-tube, a wiring-spool, rotatably mounted in said driving-pulley, a driving-sheave, mounted on the forming-tube, a winding-drum, the band-pulley, the companion guide-sheaves, and the driving-belt, all combined and arranged to operate substantially as described.

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

HENRY G. WITTBOLD.

Witnesses:
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