

(No Model.)

O. PLUMMER.

POST FOR DRILLING MACHINES.

No. 274,026.

Patented Mar. 13, 1883.

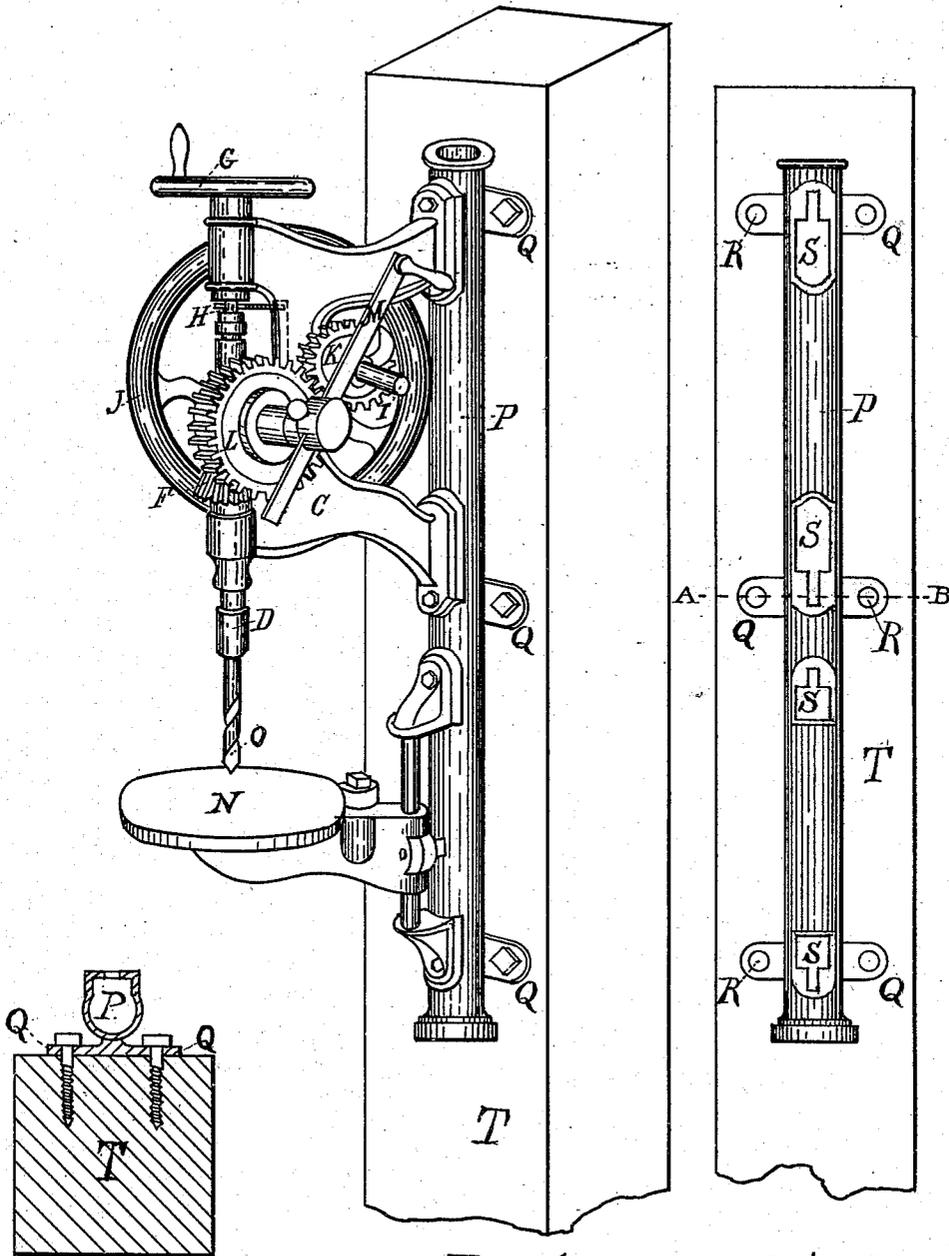


Fig. 3.
Line A.B.

Fig. 1.

Fig. 2.

WITNESSES

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POST FOR DRILLING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 274,026, dated March 13, 1883.

Application filed August 15, 1882. (No model.)

To all whom it may concern:

Be it known that I, OSGOOD PLUMMER, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Post Drilling-Machines, of which the following is a specification.

The object of my invention is to provide a more desirable post or column to support and hold in position the spindle-frame and other necessary attachments of post drilling-machines. This object is attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the machine. Fig. 2 is a plan of tubular column detached from machine, and Fig. 3 a cross-section of Fig. 2 on line A B.

Similar letters refer to similar parts in the several views.

On the drawings, the part marked C represents the frame of drilling-machine; D, the spindle. G is the feed-wheel, which, when revolved by hand or otherwise, will give an upward or downward movement to spindle D, through the medium of screw H and its connections, all of said parts being constructed in the ordinary and well-known manner.

F is a small bevel-gear fitted to spindle D, so as to allow said spindle to freely revolve and at same time have an upward or downward movement when the feed-wheel G is revolved.

I is a shaft properly supported in bearings at right angles with spindle D, having balance-wheel J, fastened on its outer back end, and driving-pinion K, fastened on its opposite and inner end.

Gear L is held in position on the side of frame C by a stud, which passes through said gear and has a bearing in frame C. On the outer end of the stud that holds gear L in position is attached handle M.

O is a drill or bit in position in lower end of spindle D.

N is work-supporting table.

Gear F, pinion K, and gear L are shown in working contact. By revolving handle M motion may be imparted through gear K and shaft I to balance-wheel J, also through gear F to spindle D, which carries with it the cutting bit or drill O. The spindle D may be driven through the medium of any suitable system of gearing or otherwise, as the manner shown forms no part of my present invention.

P is a tubular metal column, having raised projections or feet Q, attached to the back. These feet may be made a part of and solidly cast to column P, or said feet may be separately constructed and attached to column P in any well-known manner, without changing the nature of my invention. Feet Q have holes R bored or cast near each end for convenience in bolting machine to wall or post of building T.

S S are slotted seats of proper form to receive the feet of frame C and work-supporting table N, said feet being held in position by means of bolts and nuts. The feet of frame C and work-supporting table N, or either of them, may be joined to tubular column P by casting them solidly together with substantially the same result as when held by bolts, the bolts being used as a convenience in manufacturing. This tubular column P, with its combined foot-supports or projections Q, embodies the desirable features of my invention. It is more substantial than the ordinary wood or iron back; can be easily set in position, as the wall or post to which it may be attached needs dressing only at points of contact with feet Q. The column P, being of tubular form, can be made with less metal than the ordinary straight or ribbed back, and at the same time resist more strain when in use, keeping the working parts nearer in line, thereby avoiding unnecessary friction and consequent destruction of working parts.

I wish to have it understood that I do not claim substituting metal for wood, nor do I broadly claim constructing tubular metal columns for drilling-machines, as I am aware that they have been previously used for that purpose on upright drilling-machines; but I do not know of a tubular metal column with projecting feet attached as having been used on post-drilling machines previous to my invention.

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

In combination, frame C, spindle D, with its working mechanism, tubular metal column P, and projecting feet Q, all substantially as set forth.

OSGOOD PLUMMER.

Witnesses:

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