(No Model.)

E. R. CURTIN.

WELL TUBING SUPPORT.

No. 565,843. Patented Aug. 11, 1896.

Fig. 1.

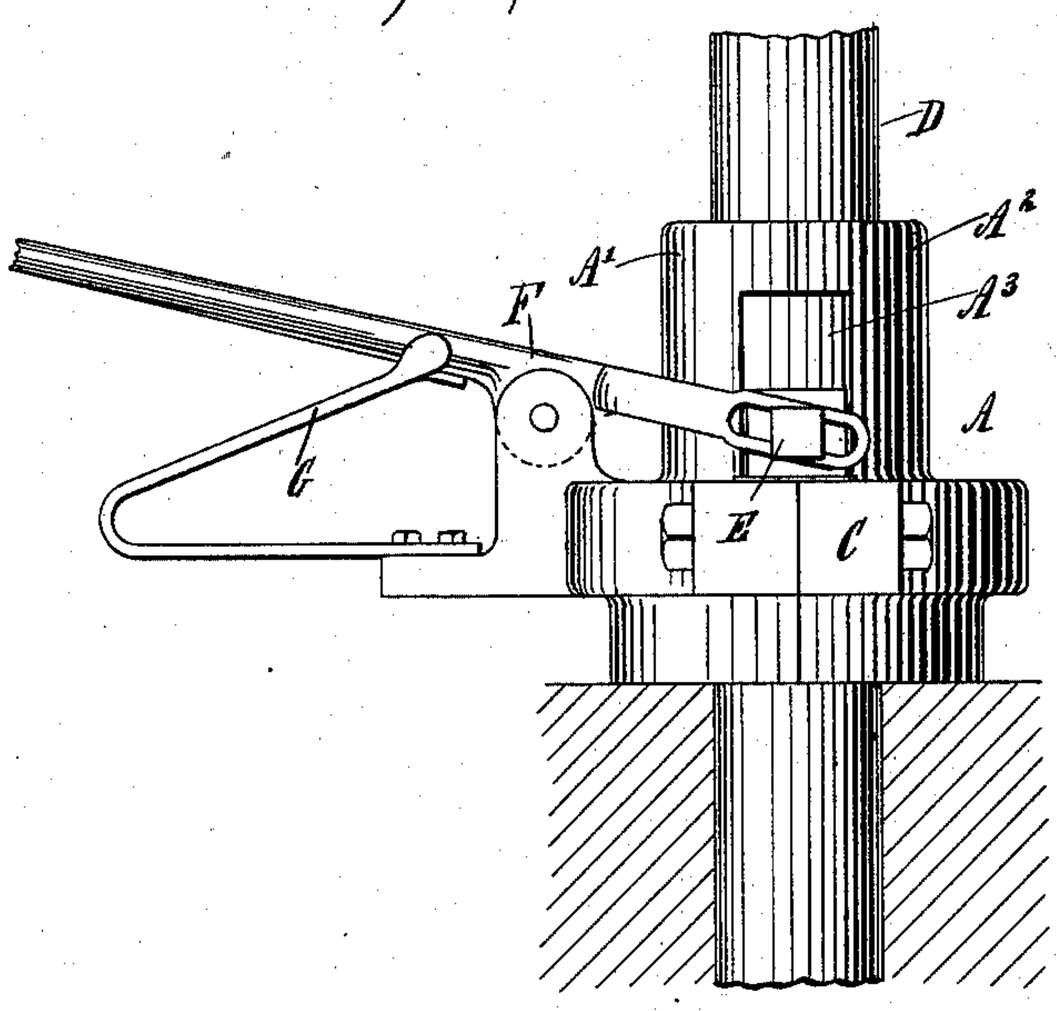


Fig. 3.

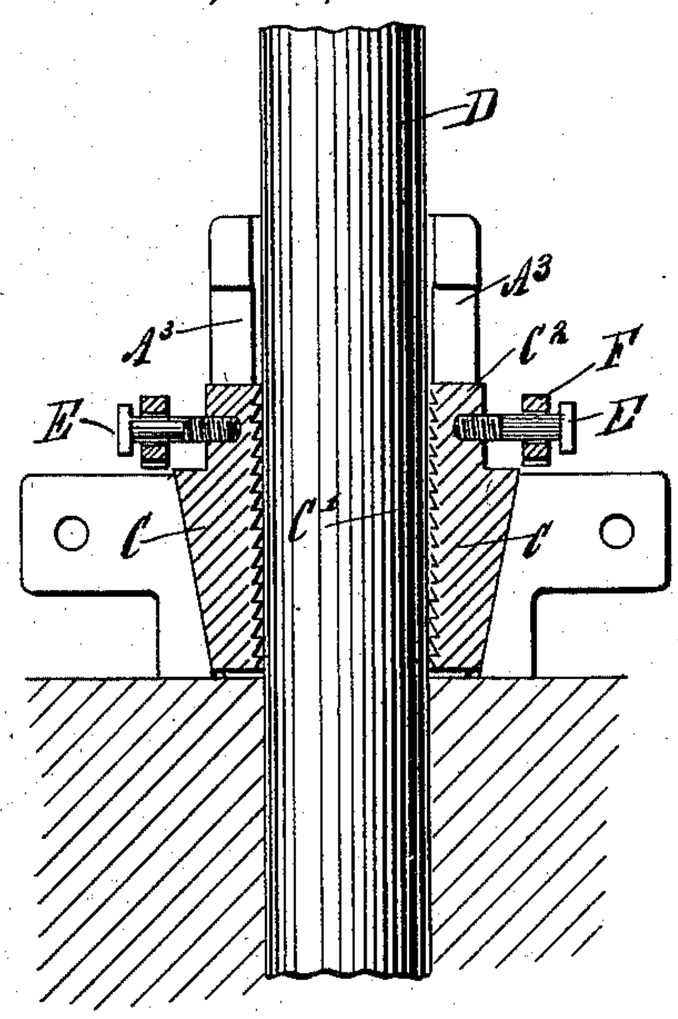


Fig. 2.

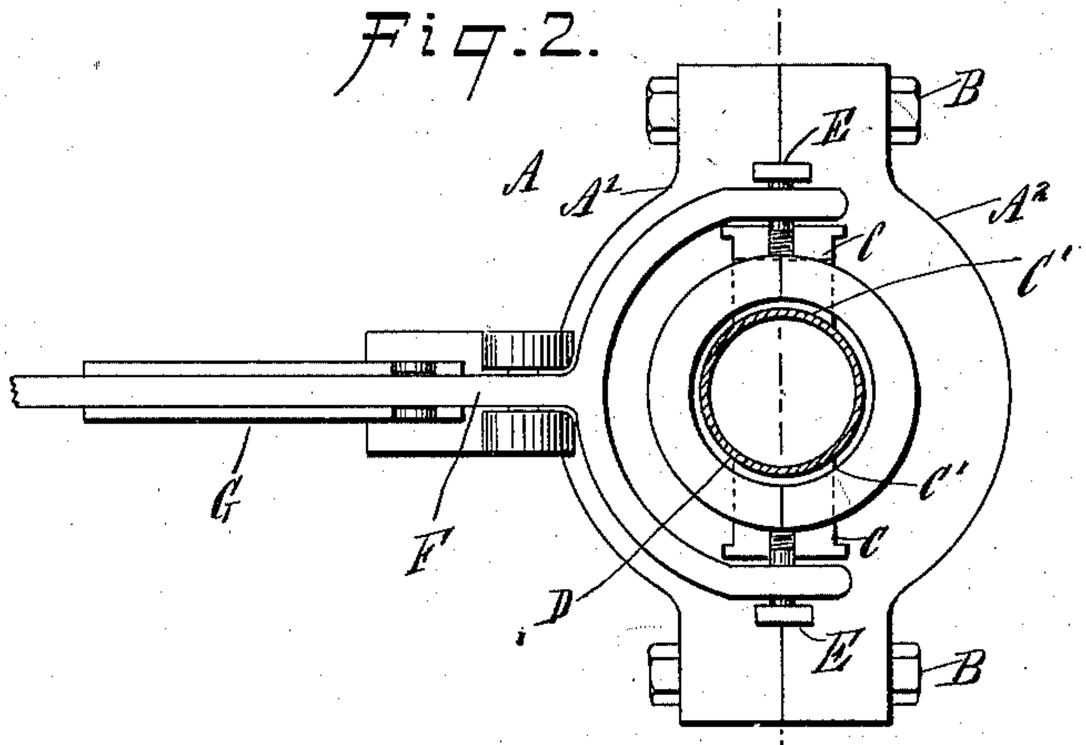


Fig. 4.

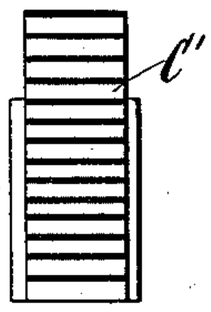
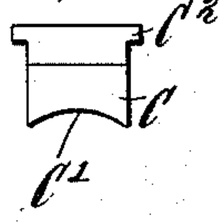


Fig. 5.



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UNITED STATES PATENT OFFICE.

EMMETT R. CURTIN, OF ST. MARY'S, OHIO.

WELL-TUBING SUPPORT.

SPECIFICATION forming part of Letters Patent No. 565,843, dated August 11, 1896.

Application filed April 30, 1896. Serial No. 589,647. (No model.)

To all whom it may concern:

Be it known that I, EMMETT R. CURTIN, of St. Marys, in the county of Auglaize and State of Ohio, have invented a new and Improved Well-Tubing Support, of which the following is a full, clear, and exact description.

The invention relates to well-boring appliances; and its object is to provide a new and improved support adapted to automatically catch and temporarily support the tubing or rods while pulling the same up or letting them down into the well.

The invention consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement as applied. Fig. 2 is a plan view of the same. Fig. 3 is a transverse section of the same on the line 3 3 of Fig. 2. Fig. 4 is an inner face view of one of the jaws, and Fig. 5 is a plan view of the same.

The improved device is provided with a casing A, made in two parts A' A^2, fastened together by suitable bolts B, as is plainly shown in Fig. 2. In the casing A are fitted to slide on inclined guideways the wedge-shaped jaws C, arranged opposite each other, and formed at their inner faces with teeth C', adapted to engage the drill-rod or tubing D to securely hold the same in place, it being understood that the teeth C' stand downwardly with their backs to permit the tube or drill-rod to be pulled, but to securely hold the same in place when the pull on the rod or tube is released.

The upper ends C^2 of the jaws C extend into transverse openings A^3, formed in the casing A, and on these ends C^2 are secured transverse pins E, engaged by the forked end of a lever F, fulcrumed on the casing A and pressed on at its handle end by a spring G, so as to normally hold the jaws C in a downward position to readily engage or catch the drill-rod or tubing. The forked end of the lever F is slotted, as plainly indicated in Fig. 1, to permit a proper movement of the lever to raise or lower the jaws, as the case may be.

When it is desired to raise the drill-rod or tubing, no attention is required on the part of the operator of the device, as the jaws C will readily close upon the tubing or drill-rod whenever the pull is released thereon to securely hold the tubing or drill-rod temporarily in position.

When it is desired to lower the tubing or drill-rods into the well, the operator presses on the outer end of the lever F to push the jaws C upward and outward and to move the teeth away from the drill-rod or tubing to permit of conveniently lowering the latter without interference from the jaws C; but in case a part of the lowering mechanism should break, and it is again desired to hold the tubing or rod, then the operator releases the pressure on the lever F to permit the spring G to push the lever F into the position shown in the drawings, so that the jaws C move downwardly and inwardly to bring their teeth in engagement with the drill-rod or tubing to hold the same in place.

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

1. A support for well-tubing, comprising a casing having inclined guideways therein, wedge-shaped sliding jaws in said guideways, said jaws being provided at their inner faces with teeth adapted to engage the rod or tubing and at their upper ends with transverse pins, a forked lever fulcrumed on the outside of said casing half-way between said guideways, said lever having slotted ends arranged to loosely engage said pins and impart movement to said jaws, and a spring pressing on the free end of said lever arranged to normally hold said jaw in a downward position, as and for the purpose set forth.

2. A support for well-tubing, comprising a two-part casing, each part having inclined guideways therein, wedge-shaped jaws arranged to slide in said guideways having their inner faces formed with teeth, the upper ends of said jaws extending into transverse openings formed in said casing, transverse pins secured on said ends, and a forked lever fulcrumed on the outside said casing half-way between said guideways, the end of said lever being slotted to receive said pins, as and for the purpose set forth.

EMMETT R. CURTIN.

Witnesses:
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