

W.H. Downing,

Tube Clamp.

No. 106563.

Patented Aug. 23. 1870.

Fig. 1.

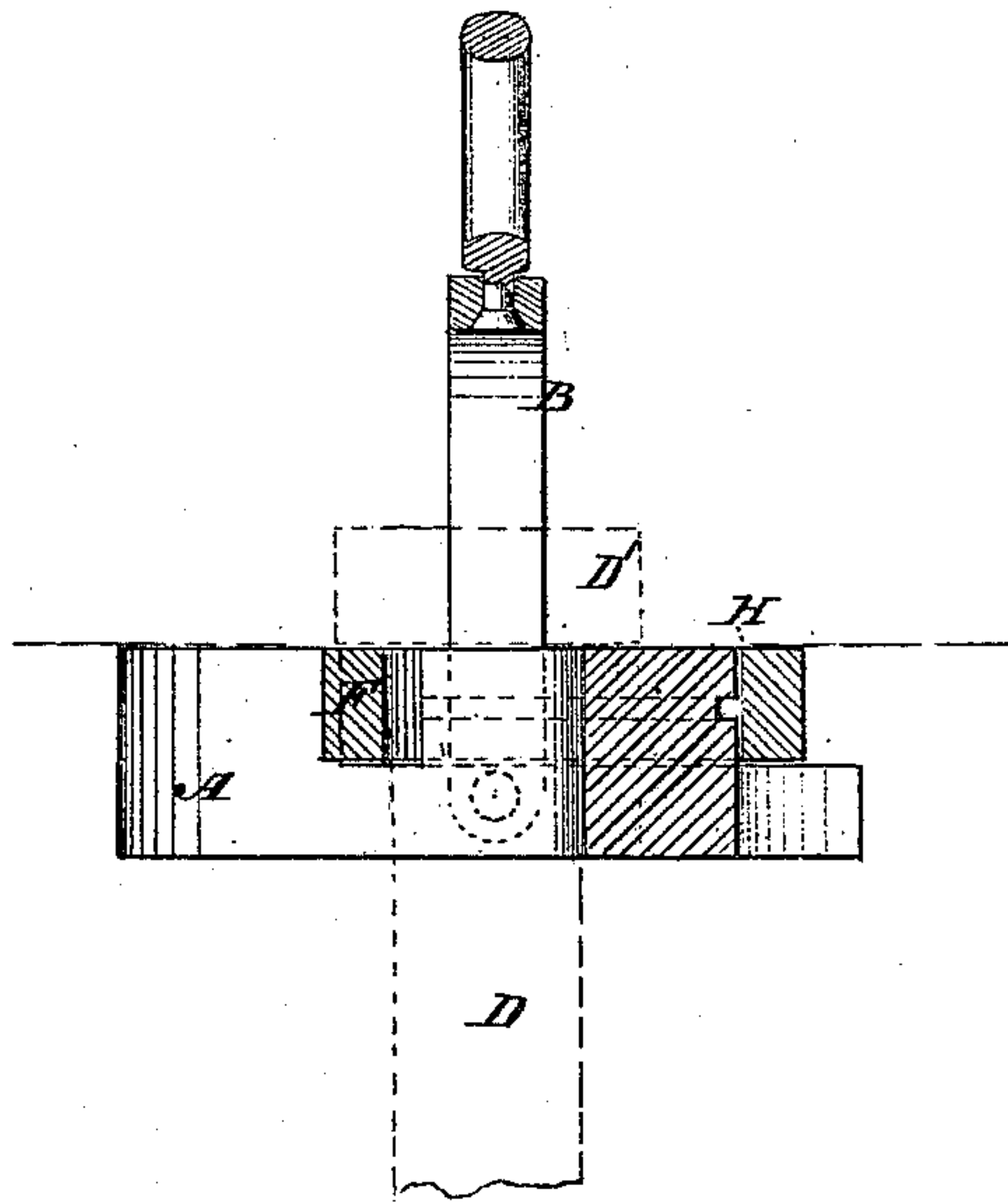
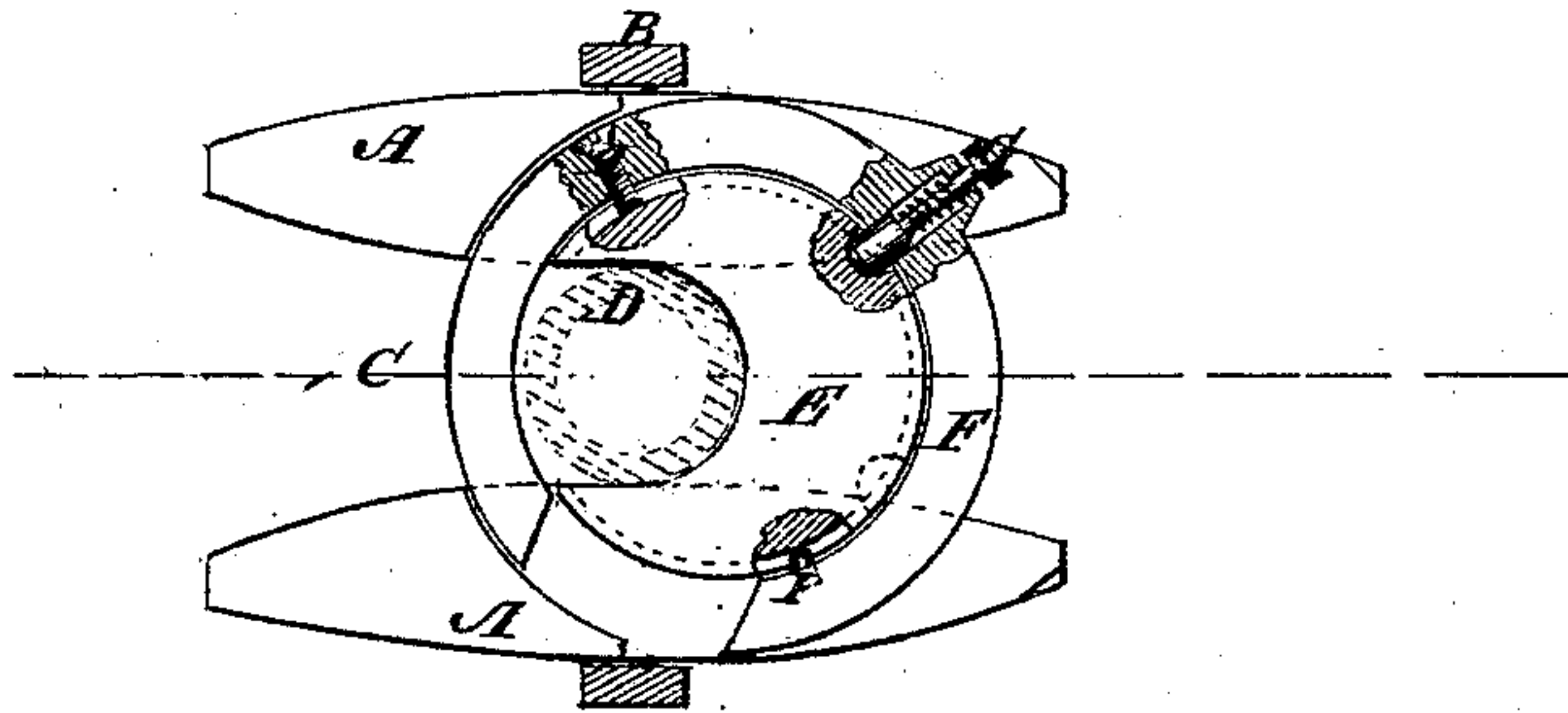


Fig. 2.



Witnesses:
S. S. Mabee
D. M. Mabee

Inventor:
W. H. Downing
PER *[Signature]*
Attorneys.

United States Patent Office.

WILLIAM H. DOWNING, OF PIONEER, PENNSYLVANIA.

Letters Patent No. 106,563, dated August 23, 1870.

IMPROVEMENT IN TUBING-CLAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM H. DOWNING, of Pioneer, in the county of Venango and State of Pennsylvania, have invented a new and improved Tubing-Clamp; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in tubing-clamps or clutches used for attaching the hoisting-chains to oil-well tubing for hoisting it out of the wells, and consists in the application to a circular hub on the top of a bifurcated block adapted to receive the tube below the enlarged coupling-point, and for attachment to the hoisting-chain, of a ring with an opening arranged to be set to coincide with the bifurcation, for the reception of the tubes, and for turning afterward, to confine the tube therein, all as herein-after more fully specified.

Figure 1 is a sectional elevation of my improved clamp or clutch, and

Figure 2 is a plan view of the same.

Similar letters of reference indicate corresponding parts.

A is the bifurcated block, having a bail, B, or other means for attaching to the hoisting-chain, and adapted for the reception of the tube D, in the bottom of the notch C, taking under the collar D', or other enlargement for the coupling-joint.

I make a circular hub, E, at the back of the notch

C, which enters it to about the center, and provide an open ring, F, to encircle it and turn thereon, so as to cause the opening thereof to coincide with the notch C, for the reception of the tube, as shown in fig. 2; and I provide the ring with a spring locking-pin, G, or other suitable fastening device, arranged for confining the ring in the position for the reception of the tube, or for securing it; and, for preventing the ring from falling off the hub E, I make a groove, H, in the face of the latter, and arrange the confining-pins I in the ring engaging the groove, but turning freely in it.

After the tube has been received by the block and the ring, the latter is turned, and secured in the position represented in fig. 2, thereby securely holding the tube.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination, with the block A, having the notch C and circular-notched hub E, and arranged for attachment to a hoisting-chain, of the notched confining-ring F, provided with the locking-pin G, or other locking device, substantially as specified.

The above specification of my invention signed by me this 15th day of February, 1870.

WM. H. DOWNING.

Witnesses:

GEORGE W. DOWNING,
GEO. W. MABEE.