J. G. WINGER.

Improvement in Rope-Clamps.

No. 131,803. Patented Oct. 1, 1872.

Fig. 1

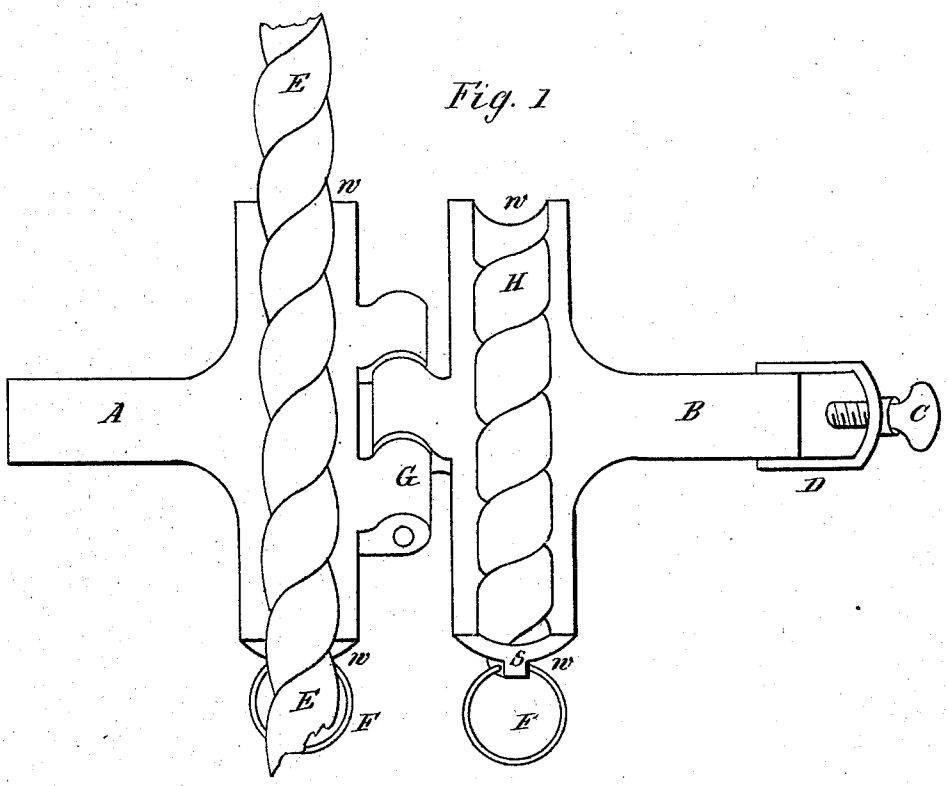
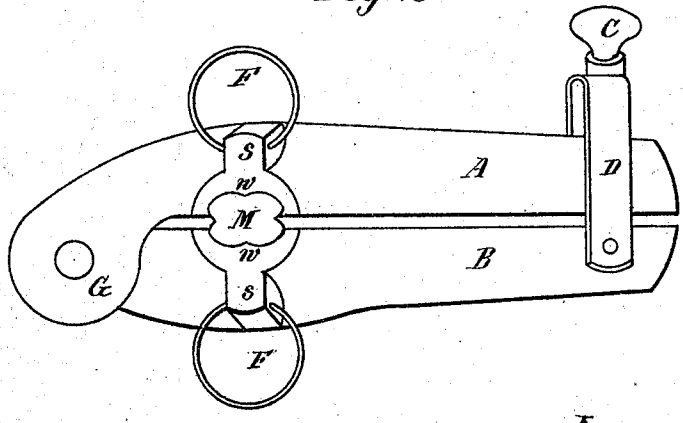


Fig. 2



Witnesses
A B Richmond
L. J. White

Inventor
Josiah G Winger

UNITED STATES PATENT OFFICE.

JOSIAH G. WINGER, OF OIL CITY, PENNSYLVANIA.

IMPROVEMENT IN ROPE-CLAMPS.

Specification forming part of Letters Patent No. **131,803**, dated October 1, 1872.

To all whom it may concern:

Be it known that I, JOSIAH G. WINGER, of Oil City, in the county of Venango and State of Pennsylvania, have invented a new and Improved "Rope-Clamp" to be used in boring artesian wells and for like purposes; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing and the letters of reference marked thereon.

In boring artesian or oil wells the boring-tools are attached to a long rope, the end thereof passing over a pulley at the top of the "derrick." This rope is attached, a few feet above the ground, to a "temper-screw," which screw is connected with the "walking beam" of the "engine-rig." As the well is deepened the rope below the temper-screw must be lengthened to correspond with the depth of the well.

My invention relates to the clamping devices to which the temper-screw is attached, and by which the weight of the rope and boring-tools is sustained during operation. The invention consists in providing a rope-clamp of improved construction whereby the clamp may be more easily applied and the rope be held more securely in the required position, and by means of which all wrapping, heretofore used to protect the rope or cable, is dispensed with, and a great saving of time is thereby effected; said improved clamp consisting of two corrugated jaws hinged together at one side, and provided with projecting arms or levers projecting from the opposite side sufficiently to give considerable leverage in clamping the rope between the jaws, the levers being secured together by means of a movable strap or stirrup and set-screw, all as hereinafter more fully set forth.

Figure 2 is a top view of my clamp. A B are two short levers hung together by a strong hinge at G. There are two concave jaws, *w w*, at right angles to the levers A B, placed near the hinge G, see Fig. 1, which represents my clamp open, showing the rope E E and the inner concave surface of the jaws at H. S S, Fig. 2, are two "lugs," one on the end of each jaw *w w w w*. In these lugs are the two rings F F, to which the "temper-screw" is attached. M, Fig. 2, shows the form of the hole made by the two concave jaws *w w* when the same are closed or shut together. D is a "stirrup," attached to the end of the lever B by a pin, so that it may be turned back in the position shown in Fig. 1 when the clamp is to be opened. C is a screw, which, when the clamps are shut, as at Fig. 2, and the "stirrup" D turned over the end of the lever A, may be screwed down on the end of the lever A, thus closing the clamp tightly around the rope; or, if it is desired, a screw-bolt may be passed through the ends of the levers A and B, thus screwing them together. The inner or concave surface of the jaws *w w w w* are corrugated to correspond with the strands or twist of the rope, as shown at H, Fig. 1.

By this construction it will be seen that, when the clamps are shut together around the rope, it is impossible for the rope to slip, and at the same time the rope, fitting the concave surface of the jaws, is not liable to be cut by the clamp.

What I claim as my invention, and desire to secure by Letters Patent, is as follows, to wit:

As a new article of manufacture and trade, a rope-clamp, consisting of two hinged jaws, *w w*, corrugated as described, and having the levers A B, stirrup D, and set-screw C, substantially as and for the purpose specified.

JOSIAH G. WINGER.

Witnesses:

A. B. RICHMOND,

J. T. WHITE.