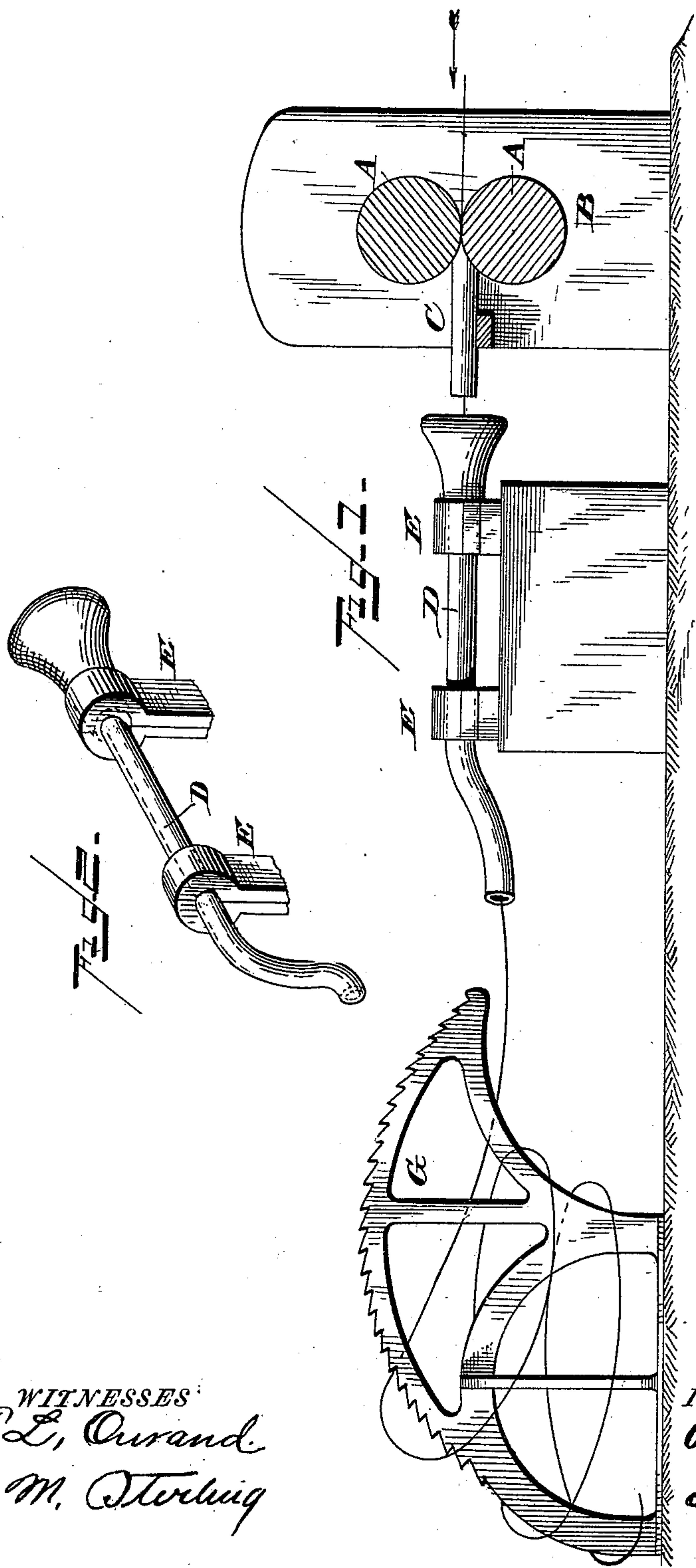


(No Model.)

G. LEHBERGER.
DEVICE FOR COILING WIRE.

No. 420,909.

Patented Feb. 4, 1890.



WITNESSES:
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GEORGE LEHBERGER, OF BEAVER FALLS, PENNSYLVANIA, ASSIGNOR OF
ONE-HALF TO FRANK G. TALLMAN, OF SAME PLACE.

DEVICE FOR COILING WIRE.

SPECIFICATION forming part of Letters Patent No. 420,909, dated February 4, 1890.

Application filed August 29, 1889. Serial No. 322,303. (No model.)

To all whom it may concern:

Be it known that I, GEORGE LEHBERGER, a citizen of the United States, residing at Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented new and useful Improvements in Devices for Coiling Wire; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in devices for coiling wire rods as they emerge from the rolls.

The object of my invention is to provide a device which will automatically form the rods into spirals as they emerge from the rolls, said spirals being arranged in a bundle of coils on a suitable standard.

My invention consists in mounting in suitable bearings in front of the rolls a tube for the reception of the rod as it emerges from the roll, the front end of said tube being bent in the form of a corkscrew spiral, so that the rod as it emerges from the tube will impart to it a rotary motion, thus causing the rod to assume a spiral form, said spirals being assembled into coils on a suitable standard, as will more fully hereinafter appear.

In the drawings, Figure 1 is a side view, partly in section, of a pair of rolls, my improved coiling device, and the standard for arresting the coils. Fig. 2 is a view in perspective of the coiling-tube.

A indicates the rolls mounted in suitable bearings in the housings B, the rolls and the mechanism for reducing the metal to rods being of any suitable or well-known construction.

C is a guide-tube placed opposite the groove in front of the rolls, through which the rods pass on their way out of the rolls, said guide-

tube being also of any well-known or suitable construction.

D is the coiling-tube mounted in suitable bearings E, so as to freely revolve therein. The rear end of the tube D is made flaring or bell-mouthed, so as to catch and direct thereon as it emerges from the pipe C. The front end of the tube D is bent in the form of a corkscrew spiral, so that the reaction of the force of the rod in running through it causes the tube to revolve backward, and causes the rod to be formed into spirals or loops while they are passing through the air, said spirals being caught on the standard G and assembled into coils.

It will be noticed that the tube D is revolved automatically by the force of the rod passing through it, and that it will adapt itself to the desired number of revolutions dependent upon the velocity of the rod passing therethrough.

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

1. In a device for coiling metal rods as they emerge from the rolls, a guide-tube loosely mounted in suitable bearings and having one end bent to form a corkscrew spiral, said tube being automatically revolved by the force of the rod passing therethrough to form the rods into spirals or loops, as set forth.

2. The rolls A and tube C, in combination with the automatically-revoluble guide-tube D and standard G, whereby the rods are automatically coiled by the force of the rod exerted on the spirally-formed end of the guide-tube, as set forth.

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

GEORGE LEHBERGER.

Witnesses:

J. CHARLES IRWIN,
O. B. BRADFORD.