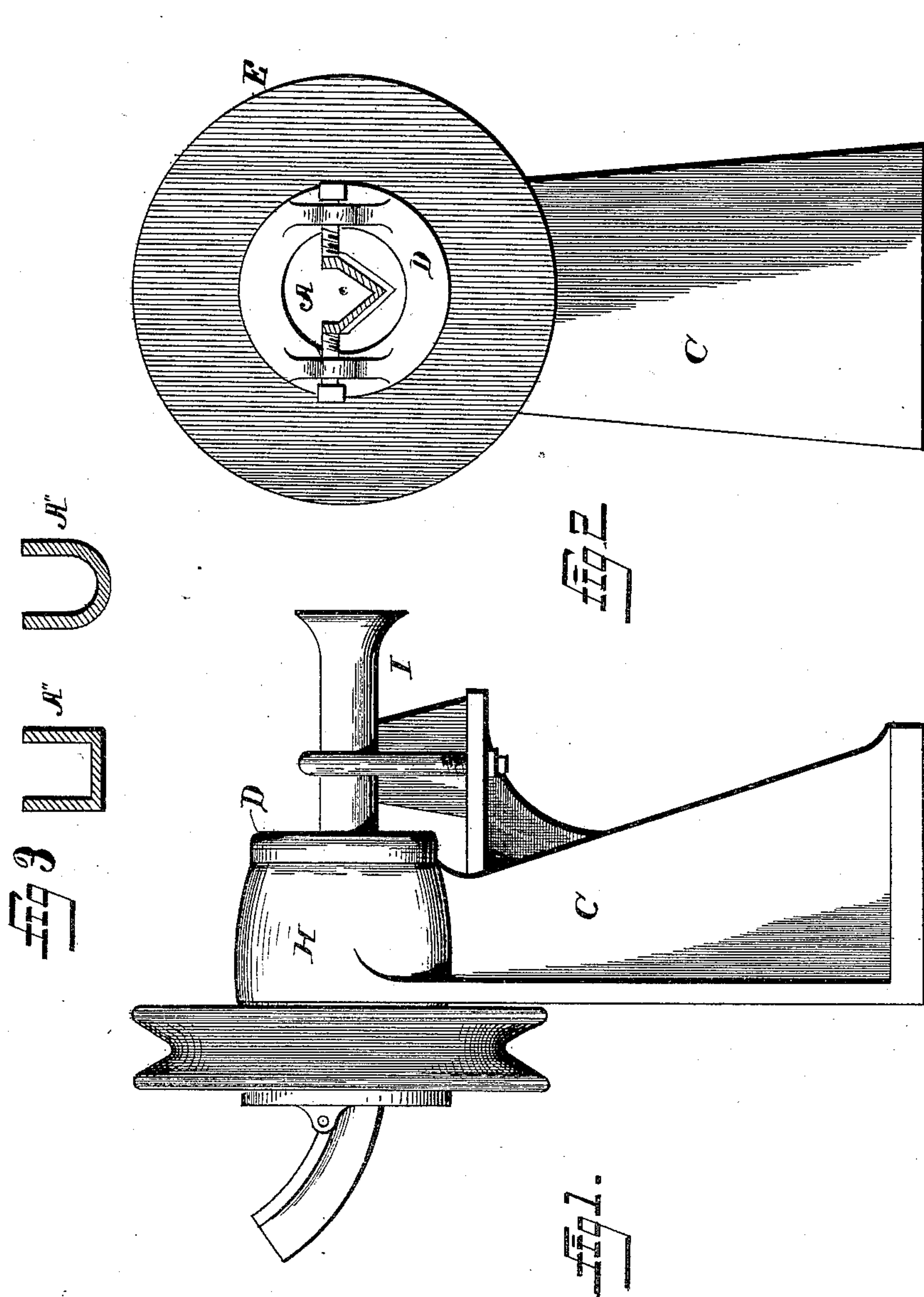


(No Model.)

F. G. TALLMAN.
DEVICE FOR COILING METAL RODS.

No. 428,972.

Patented May 27, 1890.



Witnesses
J. M. Fowler
N. M. Sterling

Inventor
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UNITED STATES PATENT OFFICE.

FRANK G. TALLMAN, OF BEAVER FALLS, PENNSYLVANIA.

DEVICE FOR COILING METAL RODS.

SPECIFICATION forming part of Letters Patent No. 428,972, dated May 27, 1890.

Original application filed December 7, 1889, Serial No. 332,927. Divided and this application filed March 10, 1890. Serial No. 343,299. (No model.)

To all whom it may concern:

Be it known that I, FRANK G. TALLMAN, 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 Metal Rods; 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 metallic rods into bundles as they come from the reducing-rolls.

This application is a division of an application filed by me December 7, 1889, Serial No. 332,927.

This invention consists of a hollow revolvable hub placed in line with the guide-tube from the reducing-rolls, said hub having placed therein a bent or curved trough or other opened-top section, so arranged that the advancing rod will be guided thereby and formed into spirals, said spirals being caught on a suitable standard.

In my patent, No. 412,564, granted October 8, 1889, I have shown and described a bent tube attached to a revolvable hub or guide; but in some instances the rod, after being freed from the forward movement exerted by the reducing-rolls, was liable to impinge on the sides of said tube, which caused the rod to stick and thereby twist the back end, thus making scrap and annoyance and losing time in freeing the rod from the coiler.

Referring to the accompanying drawings, Figure 1 is a side view of my device. Fig. 2 is a front view of the device shown in Fig. 1. Fig. 3 is an end view of a U and a square bottomed trough, which may be used in coiling the rods, instead of the V-shaped trough shown in Fig. 2.

A indicates the coiling device, which is mounted in a sleeve or bearing B in the upper portion of the support C, said coiling device consisting of a sleeve D, having a central opening or aperture extending there-through, and provided with a grooved or other suitable pulley-wheel E at its outer end, adapted to receive a driving-belt, by which

the coiling device is driven from any suitable source of power.

F is a guide-tube adjustably mounted on the standard C, said tube being designed to receive the rod as it emerges from the main guide-tube which receives the rods from the reducing-rolls, the last-mentioned guide-tube and reducing-rolls not being illustrated in the drawings.

To the front end of the coiling device is secured a bent or curved shaped trough G, said trough being on a line with the central opening in the coiling device. This curved trough G may be of a U, V, L, or any other suitable shape in cross-section which will produce the desired result, and it will be seen that when the sleeve D is revolved the bent trough will also be revolved and impart to the rod a coiling motion, said coils being caught on a suitable standard, and that the rod will be held in the bottom of the trough by the forward motion of the rod as long as the forward motion, caused by the action of the reducing-rolls, is exerted on the rod. Owing to the open side in the trough G, as soon as the rear end of the rod emerges from the rolls the rod is perfectly free to drop out of the trough, and in this way the twisting and sticking of the rear end of the rod is obviated.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a device for coiling metal rods, a rotating wheel having a central opening for the passage of the rod therethrough as it emerges from the rolls, and a curved and trough-shaped piece of iron, open on one side, secured to said wheel, whereby the rod is given a coiling motion in its passage therethrough, as set forth.

2. In a device for coiling metal rods, a rotatable trough-shaped piece of metal open at one side and bent so as to give the rod passing through it a coiling motion, as set forth.

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

FRANK G. TALLMAN.

Witnesses:

J. F. MERRIMAN,
W. C. GALTON.