D. C. STOVER.

Reel for Coiling Wire.

No. 224,805. Patented Feb. 24, 1880.

FIG. 1.

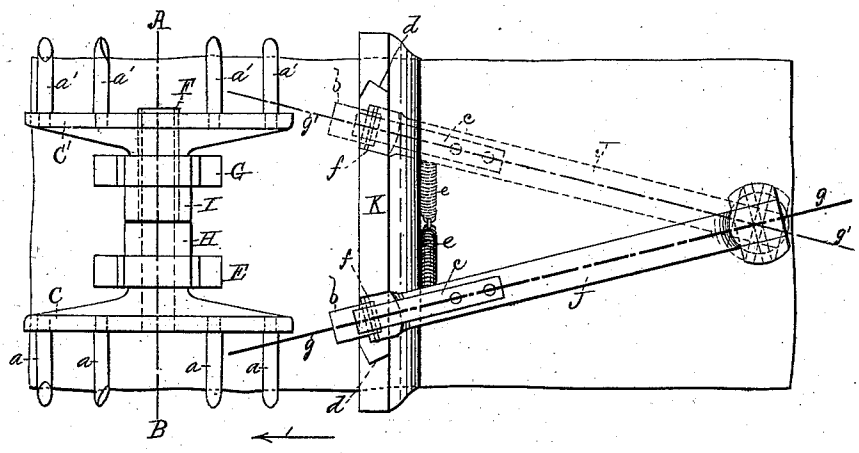
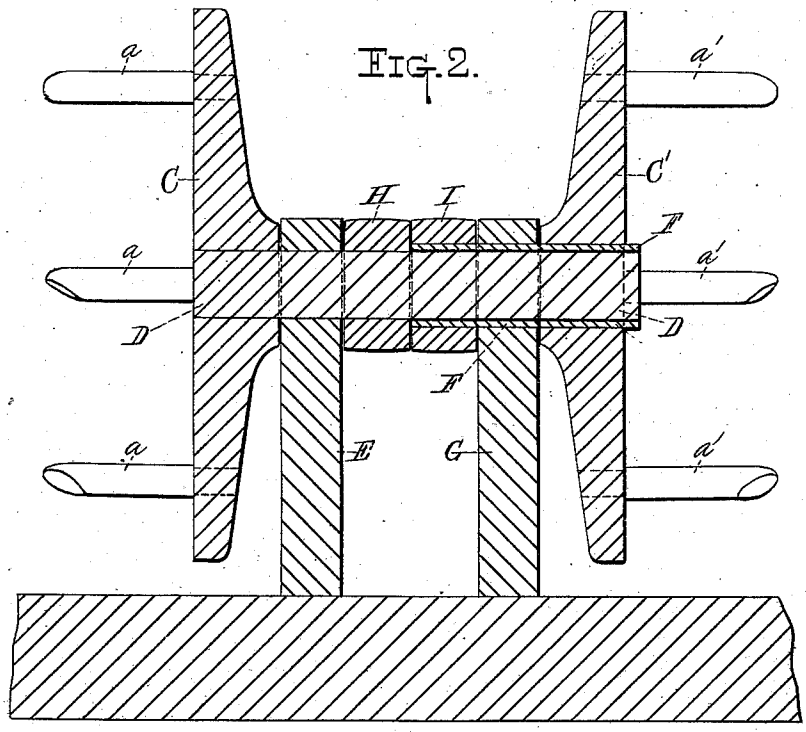


FIG. 2.



Witnesses;

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UNITED STATES PATENT OFFICE.

DANIEL C. STOVER, OF FREEPORT, ILL., ASSIGNOR TO WASHBURN & MOEN MANUFACTURING COMPANY, OF WORCESTER, MASS.

REEL FOR COILING WIRE.

SPECIFICATION forming part of Letters Patent No. 224,805, dated February 24, 1880.

Application filed September 12, 1879.

To all whom it may concern:

Be it known that I, DANIEL C. STOVER, of Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Reels for Automatically Coiling Wire Rods; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 represents a top or plan view of one of my said improved automatic reels; and Fig. 2 represents, upon an enlarged scale, a central vertical section through the reels and other parts of the machine, taken on line A B, Fig. 1, looking in the direction indicated by arrow 1 of the same figure.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

This invention is an improvement on that for which Letters Patent were granted to me September 2, 1879, No. 219,124.

In the drawings, C C represent the reels of the machine, which are provided with rod coiling and holding arms *a a'*.

Reel C is secured upon the end of a horizontal shaft, D, which is fitted to turn at one end in a suitable bearing formed in standard E, and at the other end in a hollow shaft or tube, F.

Reel C′ is secured upon the outer end of hollow shaft or tube F, which is fitted to turn in a suitable bearing formed in standard G.

By the above described arrangement it will be seen that each reel, C or C′, may be rotated independent of the other by means of driving-pulleys H and I, the former being fastened to shaft D of reel C, and the latter to tubular shaft F of reel C′.

The wire rod to be coiled, as it leaves the finishing-rolls of the rolling-mill, passes through a swinging guide-tube, J, and strikes a locking-piece, *b*, hinged to the front end of tube J, and held down by spring *c*, and throwing it out from notch *d* allows the spring *e* to draw guide-tube J in against shoulder *f* of the guide-tube supporting-piece K, as indicated by full lines, Fig. 1, whereby the wire rod will be guided directly upon the reel-arms *a* of reel C, as indicated by line *g*.

Pulleys H and I, being arranged side by side, can be driven by a single belt, and after reel C has received its coil of wire rod the belt can be shipped to pulley I, and reel C′ put in motion, and guide-tube J lifted up and swung to the other side, and its swinging lock-piece *b* allowed to catch against the notch *d* on the other end of supporting-piece K, whereby, when the wire rod passes through guide-tube J in this new position, catch-piece *b* will be thrown from notch *d*, when spring *e* will draw guide-arm J against shoulder *f* of supporting-piece K, as indicated in dotted lines, Fig. 1, so that the wire rod will be drawn and guided into the position indicated by line *g'*, whereby it will be coiled upon arms *a'* of reel C′, thus giving time for the attendants to remove the coil from reel C preparatory to coiling another rod thereon, as before explained.

Having described my improvements in automatic reels for coiling wire rods, what I claim therein as new and of my invention, and desire to secure by Letters Patent, is—

The combination, with the swinging guide-tube J and reels C C′, of supporting piece or stand K, provided with notches *d d* and shoulders *f f*, substantially as and for the purposes set forth.

DANIEL C. STOVER.

Witnesses:

THOS. H. DODGE,

EDWIN M. MOORE.