(No Model.)

W. W. McCALLIP.

BILLET GUIDE FOR ROLLING MILLS.

No. 271,725. Patented Feb. 6, 1883.

Fig. 1.

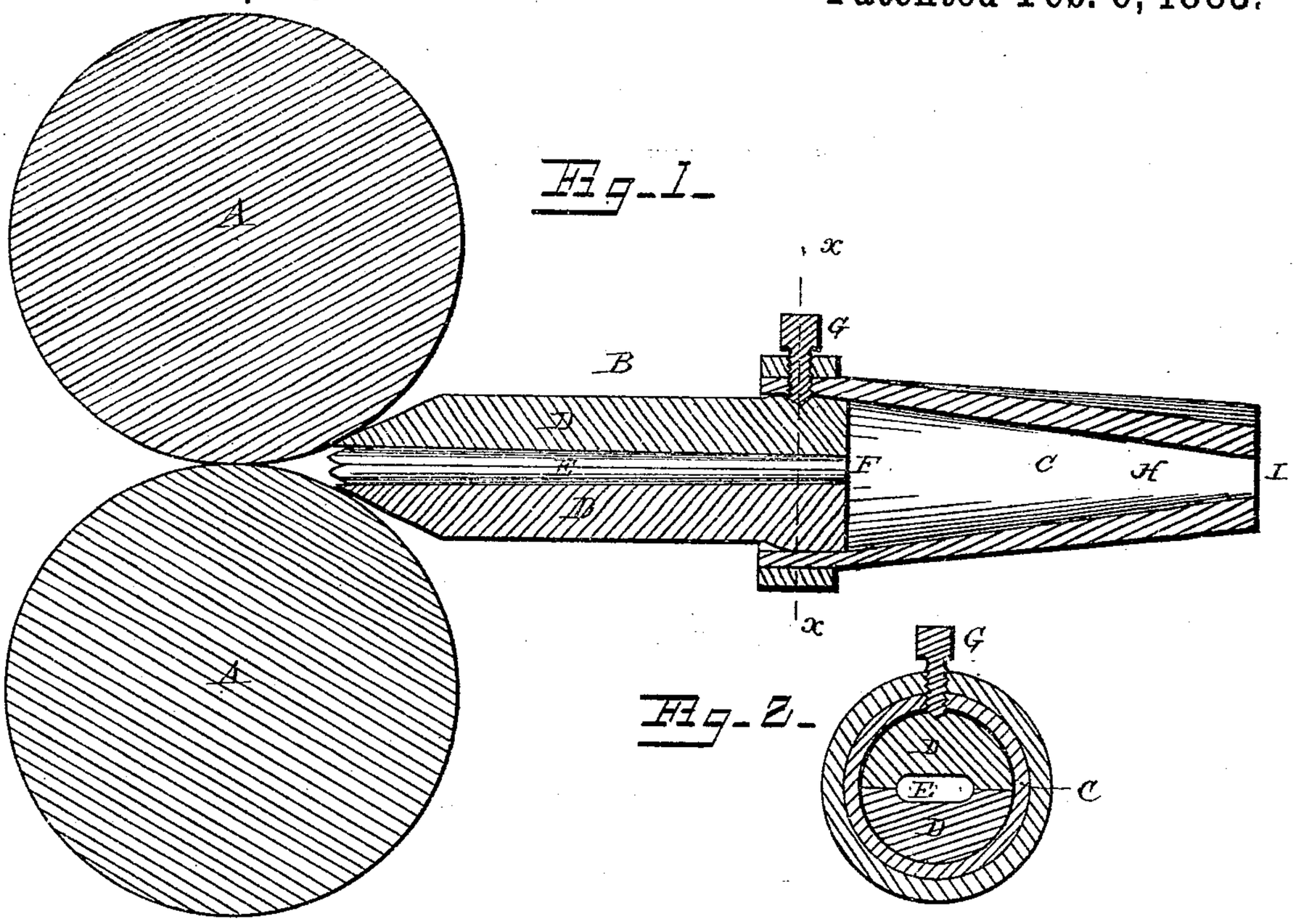


Fig. 2.

Fig. 3.

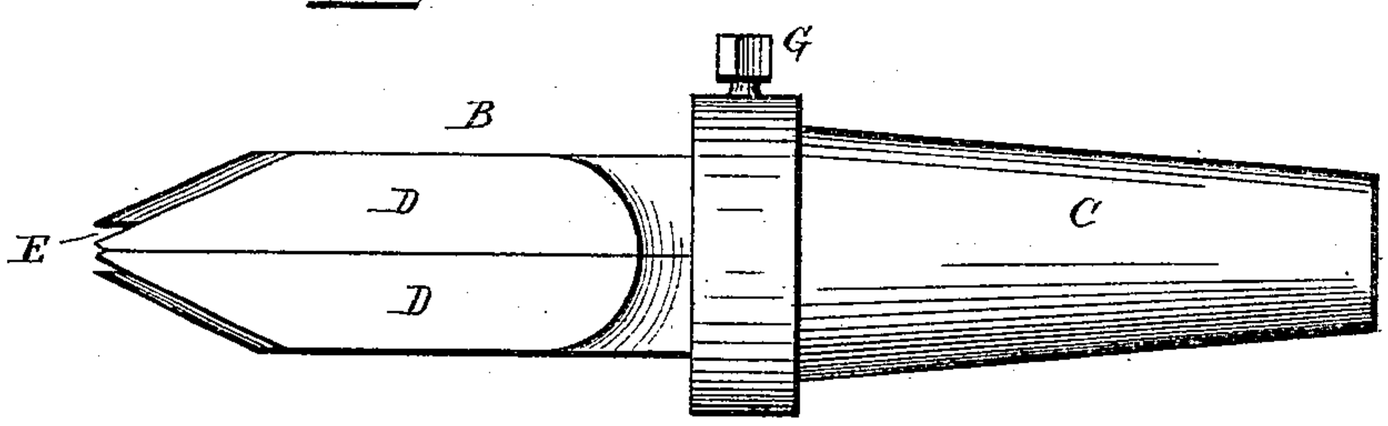
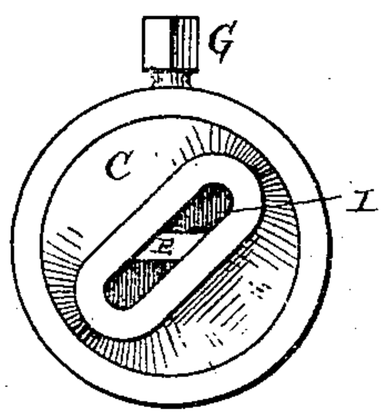


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM W. McCALLIP, OF COLUMBUS, OHIO.

BILLET-GUIDE FOR ROLLING-MILLS.

SPECIFICATION forming part of Letters Patent No. 271,725, dated February 6, 1883.

Application filed October 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM W. McCALLIP, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a new and useful Billet-Guide for Rolling-Mills, of which the following is a specification, reference being had to the accompanying drawings.

Figure 1 is a vertical longitudinal sectional view of my improved billet-guide in position for operation. Fig. 2 is a section on the line *x x*, Fig. 1. Fig. 3 is a side view. Fig. 4 is an end view.

The same letters refer to the same parts in all the figures.

This invention relates to billet-guides for machines for rolling wire rods and the like; and it consists in the improved construction of the same, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A A represent the rolls in connection with which my improved billet-guide is used. The latter consists of two separate parts, B and C. The part B is a tubular metal guide consisting preferably of two plates or sections, D D, placed together as shown, and having a bore, E, which may be oval, square, or of any suitable shape. The front ends of the sections D should be shaped so as to fit nicely between the rolls. The part C is a tubular tapering guide, which may be made in a single piece, and having an opening at its front end of sufficient capacity to receive the rear ends or shanks, F, of the plates D, composing the part B, which are clamped and held securely in position by a set-screw, G. The bore H of the guide C tapers to the opening I at the rear end, which is to be of a shape corresponding to that of the bore of part B—*i. e.*, square, oval, or otherwise, as the case may be.

It will be observed that the part C may be turned and adjusted to any desired position in relation to the part B, thus causing the billet to be delivered from the rolls straight or at any desired angle without the employment of a twist-guide.

I claim as my invention—

The combination, with the tubular guide B, in one or more sections, of the tubular guide C, rotatably adjustable upon the rear end of guide B, and having a tapering bore terminating in an opening corresponding in shape to the bore of part B, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM WATERMAN McCALLIP.

Witnesses:

JOHN KAISER,

EDWARD D. MINOR.