L. YAKEL.

MACHINES FOR ROLLING BLANKS FOR SOCKETS FOR OIL WELL RODS.

No. 183,739.

Patented Oct. 24, 1876.

Fig 1.

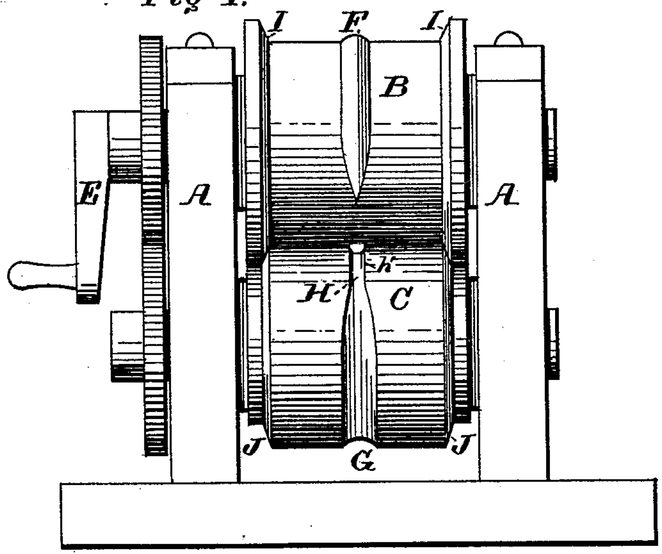


Fig 2.

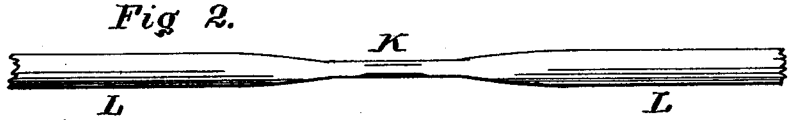
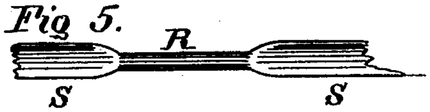


Fig 4.

Fig 3.

Fig 5.



WITNESSES.

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UNITED STATES PATENT OFFICE.

LEVI YAKEL, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN MACHINES FOR ROLLING BLANKS FOR SOCKETS FOR OIL-WELL RODS.

Specification forming part of Letters Patent No. **183,739**, dated October 24, 1876; application filed September 20, 1876.

To all whom it may concern:

Be it known that I, LEVI YAKEL, of Allegheny, Pennsylvania, have invented certain new and useful Improvements in Rolls for Manufacturing Blanks for Sockets for Oil-Well Rods and other analogous articles, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 represents a front elevation of my invention. Fig. 2 represents a rolled blank. Fig. 3 represents a socket completed. Fig. 4 represents a socket-collar. Fig. 5 represents a blank partially rolled.

My invention relates to the manufacture of blanks for sockets used principally on oil-well rods; and it consists in a combination of devices for rolling the socket-blank from a previously-prepared blank, as hereinafter described and claimed.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A A represent standards or frame-work, which furnishes bearings for the rollers B C. On the roller B is formed the elongated tapering die F, and on the roller C is a groove or matrix, G, of corresponding shape, the groove, however, extending entirely around the roller C, and, where not touched by the die, shaped as shown at H *h'*, to make the part which forms the shank of the socket, as shown at *k* in Fig. 2. The roller B is provided with the flanges I I, to embrace the ends of the roller C, as shown in Fig. 1, the flanges fitting in the depressions J J, thus securing a steady movement of the die and matrix as the blanks pass between the rollers. The rollers are provided with the ordinary cog-gearing, and may be operated by means of the crank E, or by the application of steam or other power. After the blank L has been properly formed, by passing it between the rollers B C, as above described, it is severed at the point K, and the two parts brought together and welded or otherwise secured, as shown in Fig. 3, the socket-point M being then ready for the reception of the rod. Over the shank N of the socket is passed and secured the ring or collar P, to form a shoulder and give greater security to the socket. Fig. 5 shows a blank partially rolled, the parts *s s* showing the portions of the blank acted on by the dies, and the portion R representing the portion which is to be formed into the part N, as seen in Fig. 3.

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

In combination with a suitable frame, the roller B, provided with the tapering die F, and the roller C, provided with the matrix G and connecting groove H *h'*, substantially as set forth.

LEVI YAKEL.

Witnesses:

FARRELLY ALDEN,

ABRAM ALEXANDER.