

G. W. WILKS.  
CONNECTING-RODS.

No. 194,633.

Patented Aug. 28, 1877.

Fig. 1.

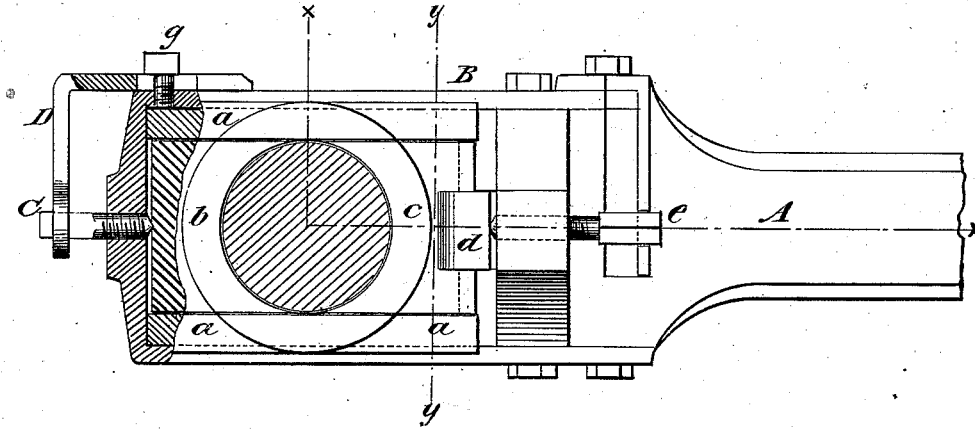


Fig. 2.

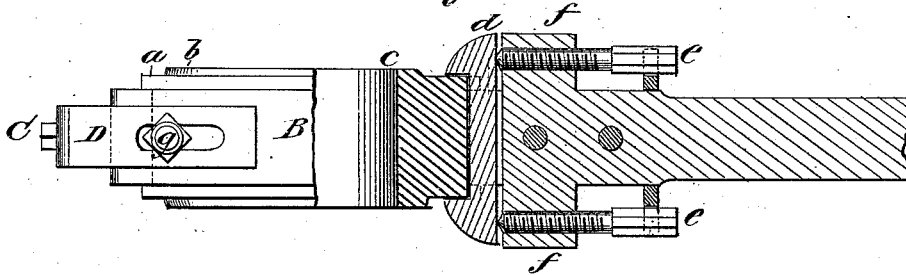
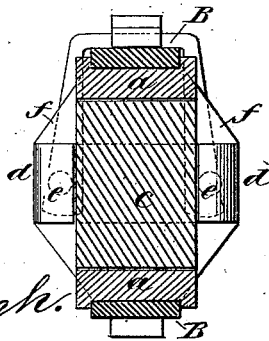


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN CONNECTING-RODS.

Specification forming part of Letters Patent No. **194,633**, dated August 28, 1877; application filed July 9, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE W. WILKS, of Roberson Fork, in the county of Marshall and State of Tennessee, have invented a new and Improved Connecting-Rod, of which the following is a specification:

Figure 1 is a side elevation in part section. Fig. 2 is a longitudinal section, taken on line *x x* in Fig. 1. Fig. 3 is a transverse section on line *y y* in Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention consists in the arrangement in the straps of a connecting-rod of side pieces between which are placed boxes, which are so proportioned that their surfaces that come into contact are reduced to a knife-edge to admit of adjusting the boxes without filing.

In the drawing, A is a connecting-rod, having bolted to it the strap B, in which the side pieces *a* are placed. These side pieces are grooved to receive the sides of the strap B. Between the side pieces *a* the parts *b c* of the box are placed, which are prevented from sliding laterally by a groove formed in the part *b*, which receives the end piece or cross-bar of the strap B, and by a gib, *d*, which is placed in a slot formed across the end of the connecting-rod and receives the part *c*. A screw, C, passes through the end piece of the strap B, and bears against the part *b* of the box, and screws *e* pass through ears *f* formed on the sides of the connecting-rod near the end, and bear against the gib *d*. By means of these screws

the halves of the connecting-rod box are adjusted and held in place. The surfaces of the parts *b c* that come into contact are reduced to a knife edge, so that they may be forced together by the screws as the box becomes worn, and the necessity of filing the boxes is avoided.

The screw C is prevented from turning by a wrench or hasp, D, which is bent at right angles, and secured to the strap B by a tap-bolt, *g*. The screws *e* are prevented from turning by a similar wrench or hasp, which is forked so as to embrace the heads of both screws, which pass through a slot in the wrench. The tap-bolt is loosened and the wrench disengaged from the screw C whenever it is turned.

By means of my improvement the boxes of a connecting-rod may be accurately adjusted without removing and filing them, and when adjusted cannot become accidentally loosened or disarranged.

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

The side pieces *a*, parts *b c*, having their meeting-surfaces reduced to a knife-edge, the gib *d*, screws C *e*, connecting-rod A, and strap B, in combination substantially as shown and described.

GEORGE W. WILKS.

Witnesses:

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