

No. 625,424.

Patented May 23, 1899.

J. SHERIDAN.

PUMPING APPARATUS FOR OIL WELLS.

(Application filed Aug. 23, 1898.)

(No Model.)

Fig. 1.

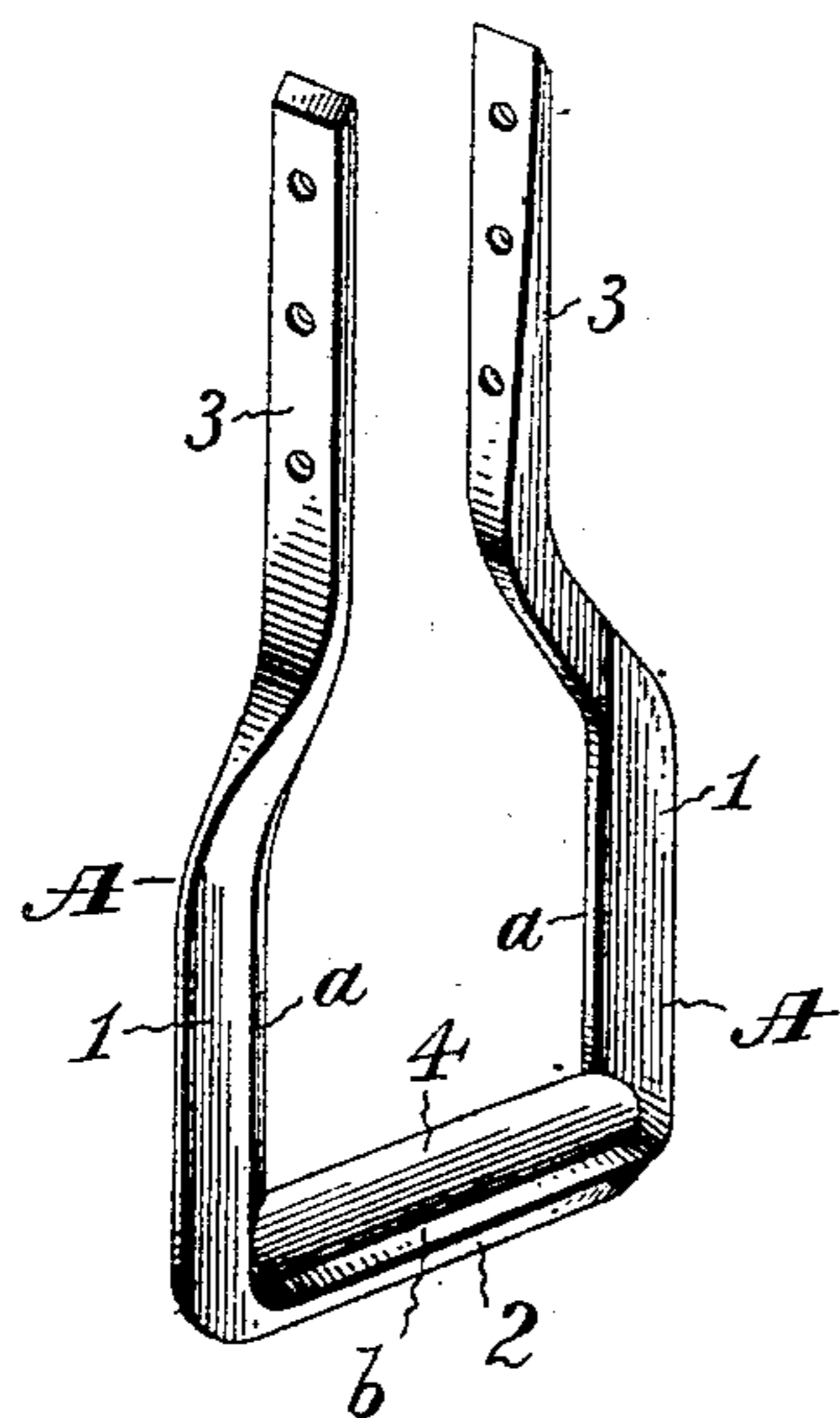


Fig. 2.

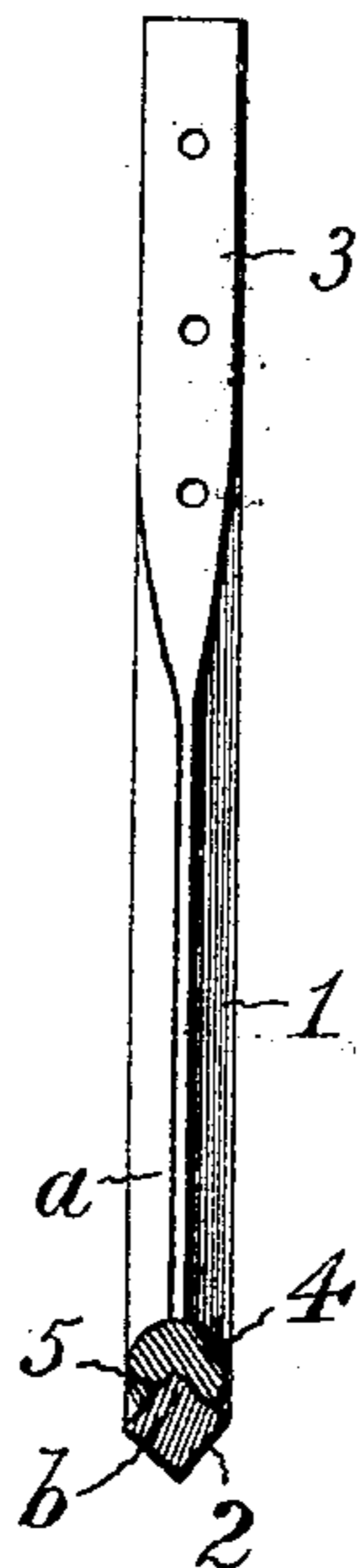
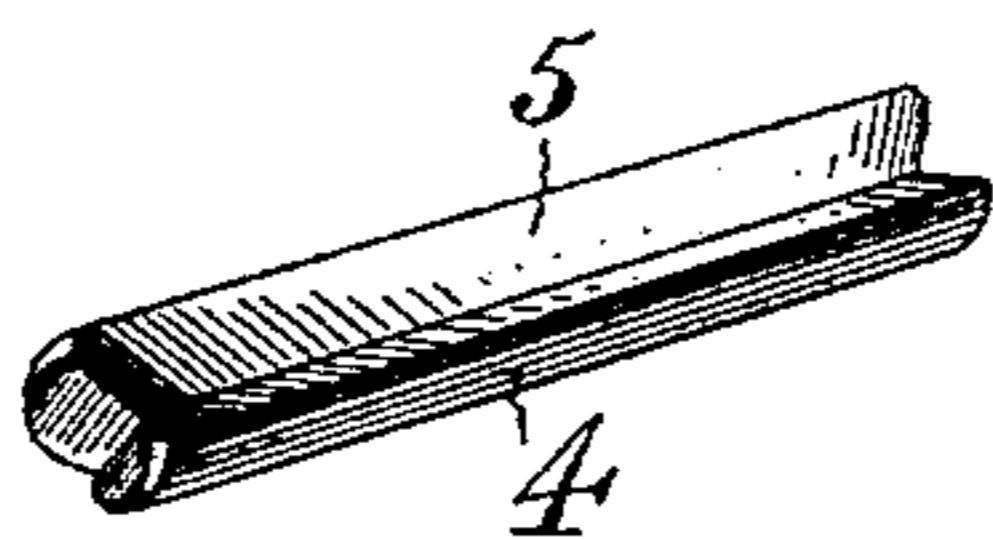


Fig. 3.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES SHERIDAN, OF MARS, PENNSYLVANIA.

## PUMPING APPARATUS FOR OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 625,424, dated May 23, 1899.

Application filed August 23, 1898. Serial No. 689,361. (No model.)

### *To all whom it may concern:*

Be it known that I, JAMES SHERIDAN, of Mars, in the county of Butler and State of Pennsylvania, have invented certain new and useful Improvements in Pumping Apparatus for Oil-Wells; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in pump apparatus for oil-wells, and more particularly to an improved stirrup by means of which the pull-rods are connected with the pumping-rig.

Heretofore stirrups for connecting the pull-rods to the pumping-rig have been made of round iron of different sizes and of a thickness from one and a quarter inches upward. When in use, the wear is on the cross-bar of the stirrup, and when this cross-bar becomes small (which it will in a comparatively short time) it is necessary to discard the whole stirrup and replace it with a new one.

It is the object of my invention to obviate the loss and inconvenience thus occasioned and to so construct a stirrup that the part on which the wear comes shall be removable and adapted to be easily and quickly removed when worn and replaced by a new part.

With this object in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as hereinafter set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of my improved stirrup. Fig. 2 is a sectional view. Fig. 3 is a detail view of the removable wearing-piece.

A represents a stirrup, made of suitable metal and comprising parallel members 1 1, an integral cross-bar 2, and shanks 3 on the parallel members 1, said shanks being perforated for the accommodation of bolts, whereby the stirrup can be secured to a pull-rod. The parallel members 1, and also the cross-bar 2 of the stirrup, are made angular in cross-section, whereby to form inwardly-projecting ribs *a a* on the members 1 and an inwardly-projecting rib *b* on the cross-bar 2 of the stirrup. A removable wearing piece or bar 4, having a rounded outer face, is disposed be-

tween the parallel members 1 of the stirrup and provided at its ends with notches 5 5 to receive the ribs *a* on the parallel members of the stirrup; by means of which ribs the wearing piece or bar is prevented from lateral displacement. In order to further insure the wearing-bar against displacement when in use and to retain it at all times in proper relation to the cross-bar of the stirrup, said wearing-bar is made with a longitudinal groove (made V-shaped in cross-section) to receive the similarly-shaped rib *b* on said cross-bar of the stirrup.

By means of the construction and arrangement of parts above described it will be seen that the wearing-bar will be kept properly in place during the operation of the apparatus and that when it becomes worn it can be readily removed and replaced by a new one at a small cost and without the necessity of removing the stirrup from the pull-rod.

My improvements are simple in construction, comprise few parts, result in the economical operation of oil-well pumping apparatus, and are effectual in all respects in the performance of their functions.

Slight changes might be made in the details of construction of my invention without departing from the spirit thereof or limiting its scope, and hence I do not wish to limit myself to the precise details herein set forth.

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

1. The combination with a stirrup comprising two parallel members connected by a cross-bar, of a wearing-bar removably disposed between the parallel members of the stirrup and held in place thereby, said removable wearing-bar bearing against the cross-bar of the stirrup, substantially as set forth.

2. The combination with a stirrup comprising parallel members having ribs on their inner faces and a cross-bar connecting said parallel members, of a removable wearing-bar bearing against the inner side of said cross-bar and having notches at its ends to receive the ribs on the parallel members of the stirrup, substantially as set forth.

3. In a stirrup, the combination with parallel members having ribs and a cross-bar having a rib, of a removable wearing-bar

having a groove to receive the rib on the cross-bar and having notches in its ends to receive the ribs on the parallel members of the stirrup, substantially as set forth.

- 5 4. In a stirrup, the combination with parallel members and a cross-bar connecting the same, said parallel members and cross-bar being angular in cross-section, of a wearing-bar removably disposed within the stirrup  
10 and against the cross-bar, said wearing-bar having a groove to receive the angular cross-

bar and having notches in its ends to receive the angular parallel members of the stirrup, substantially as set forth.

In testimony whereof I have signed this 15 specification in the presence of two subscribing witnesses.

JAMES SHERIDAN.

Witnesses:

W. W. DUNCAN,  
H. B. PATTERSON.