

(No Model.)

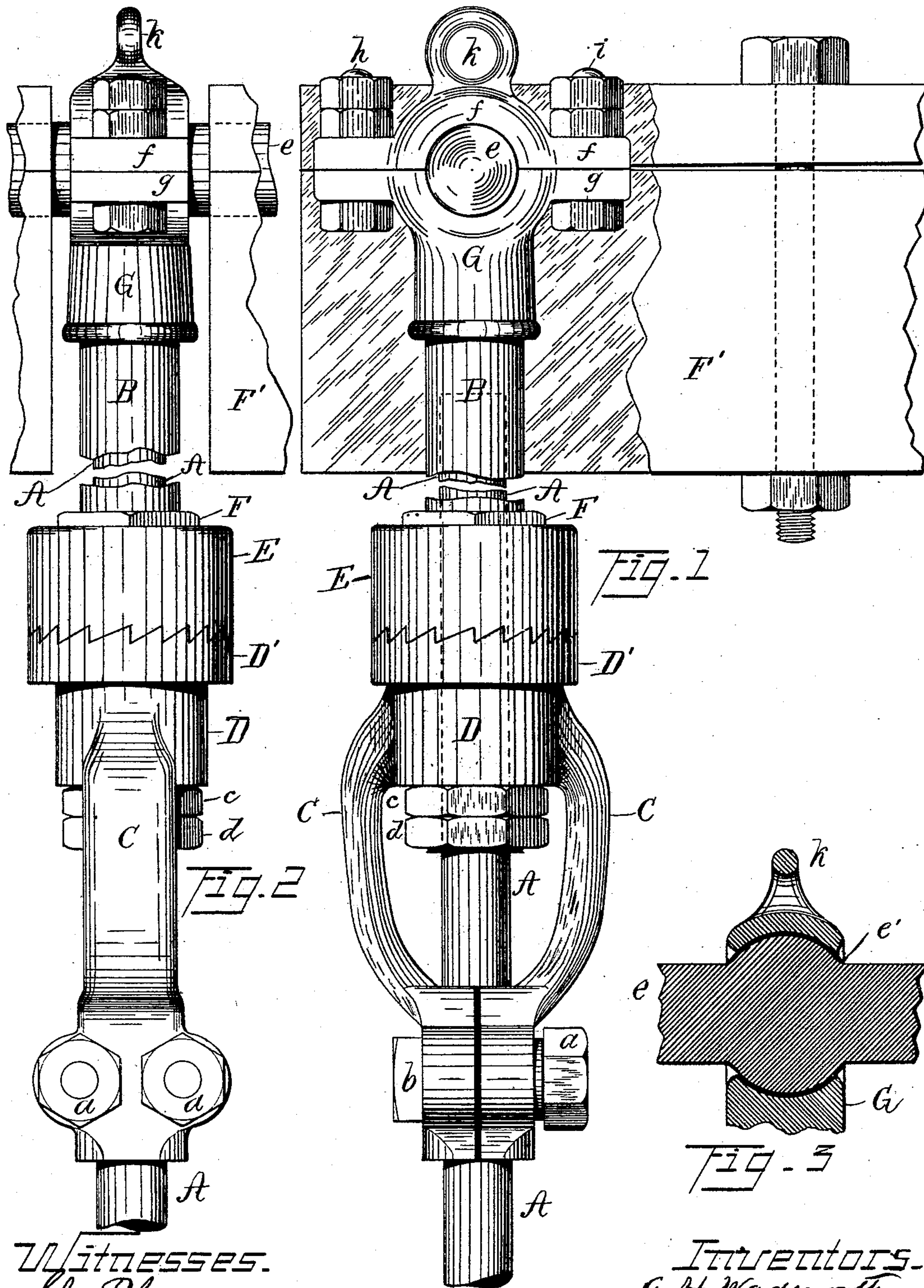
2 Sheets—Sheet 1.

G. H. WADSWORTH & W. SHEESLEY.

ADJUSTING APPARATUS FOR OIL WELLS.

No. 482,818.

Patented Sept. 20, 1892.



Witnesses.
J. H. Blower
Chas. F. Hancock

Inventors.
G. H. Wadsworth
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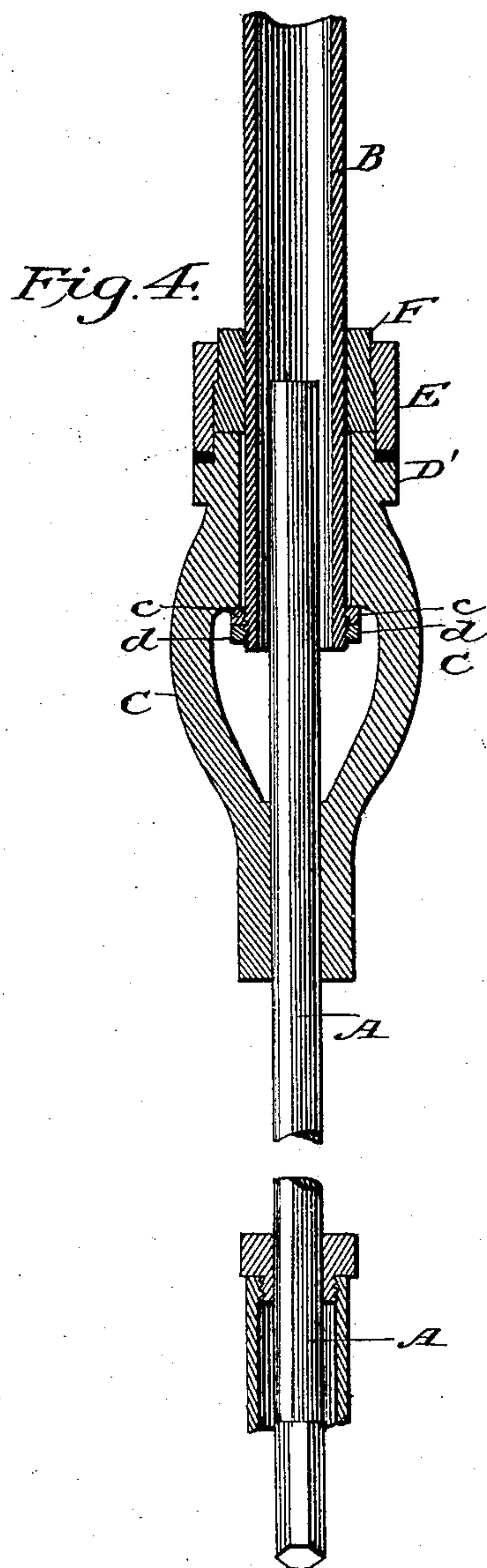
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Witnesses.
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By W. H. Burridge, Atty.

UNITED STATES PATENT OFFICE.

GEORGE H. WADSWORTH AND WILLIAM SHEESLEY, OF FINDLAY, OHIO.

ADJUSTING APPARATUS FOR OIL-WELLS.

SPECIFICATION forming part of Letters Patent No. 482,818, dated September 20, 1892.

Application filed September 28, 1891. Serial No. 406,984. (No model.)

To all whom it may concern:

Be it known that we, GEORGE H. WADSWORTH and WILLIAM SHEESLEY, citizens of the United States, residing at Findlay, in the county of Hancock and State of Ohio, have invented a certain new and Improved Adjusting Apparatus for Oil-Wells, of which the following is a full, clear, and complete description thereof.

The nature of our invention relates to the ball and pitman in connection with the walking-beam, and also to a ratchet and grip used in connection with the polish-rod for removing the adhering paraffine from the piping of an oil-well pump.

That the invention may be seen and fully understood by others, reference will be had to the following specification and annexed drawings, forming part thereof.

Figure 1 is a side view of our adjuster, showing a portion of the walking-beam cut away. Fig. 2 is a front view of same, and Fig. 3 is a detached section showing the ball and pitman in vertical longitudinal section.

Like letters of reference designate like parts in the drawings and specification.

In the drawings, A is the polish-rod, which extends up through the pipe B, as shown by dotted lines, Fig. 1, and is held rigid by the grip, which is constructed as follows: The yoke C being an integral part of the sleeve D, which circumscribes the lower terminal of the pipe B, the lower terminal of the yoke is of the form best shown in Fig. 1, being split and bored out a trifle smaller than the polish-rod. Thus when the rod A is passed up through the opening at the lower terminal of the grip and the nuts *a* are screwed up tight on the bolts *b* the rod A will be held firmly in the grip, while the sleeve D is free to turn on the pipe B. The upper portion D' of the sleeve D is toothed, as shown in Figs. 1 and 2. This, in

conjunction with the toothed sleeve E, forms a ratchet. The toothed sleeve is rigidly attached to the pipe B by means of a many-sided nut F, being threaded onto said pipe and fitting into the bore of said sleeve E. The pipe B passes down through the ratchet-sleeves E and D' and the sleeve D, and has the two nuts *c* and *d* threaded onto the lower terminal thereof.

Arranged in connection with the pipe B and the walking-beam F' is a rocker, constructed with a ball and pitman arranged as follows: The pin *e*, Figs. 1, 2, and 3, resting on the walking-beam, as shown in drawings, is enlarged in the center, forming a ball *e'*, Fig. 3. The pitman G is formed, as shown in drawings, so as to work on the ball *e'*, thus removing the wear on the walking-beam attendant with the ordinary cross-head.

The pitman G is in two parts *f* and *g*, bolted together with the bolts *h* and *i*. The pipe B is threaded into the lower part. The upper part *f* has a ring *k* attached thereto, or is preferably an integral part thereof. Sufficient space is allowed on both sides of the pitman to admit of the working of said pitman sideways on the ball should it happen to be hung out of plumb.

What we claim, and desire to secure by Letters Patent, is—

In an adjusting apparatus for oil-wells, the polish-rod A, the yoke C, and ratchet D' E, in combination with the pipe B, ball and pitman *e'* G, and the working-beam F', arranged substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE H. WADSWORTH.

WILLIAM SHEESLEY.

Witnesses:

W. H. BURRIDGE,

C. F. GRISWOLD.