(No Model.)

A. C. WILSON.

PITMAN.

No. 566,365. Patented Aug. 25, 1896.

Fig. 1

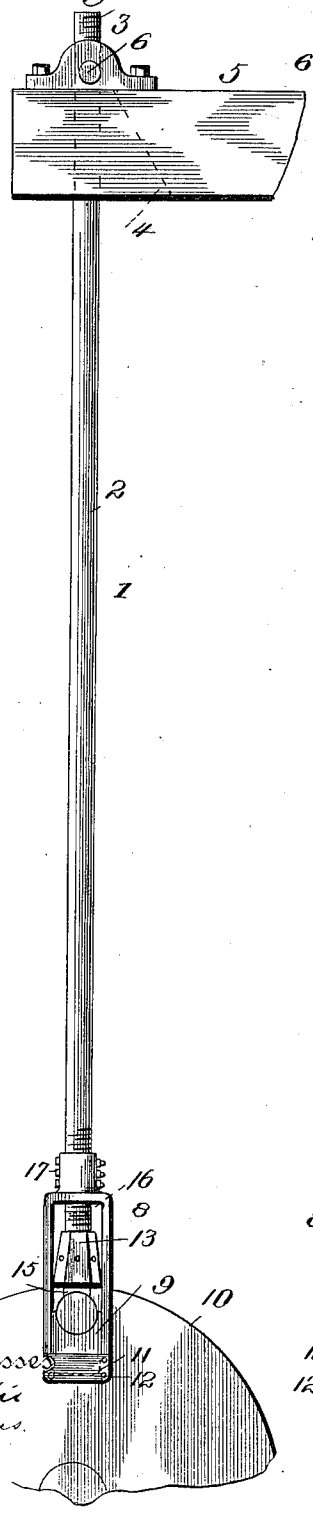


Fig. 2

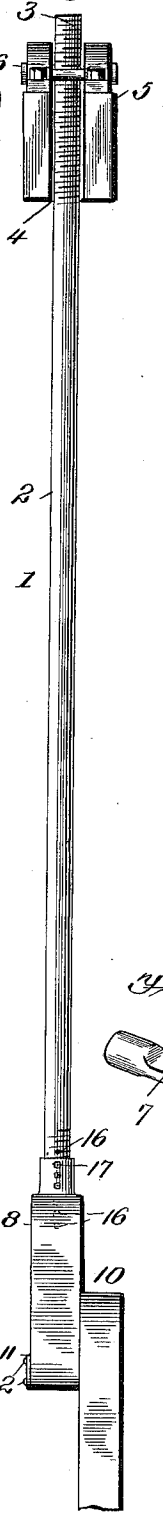


Fig. 3.

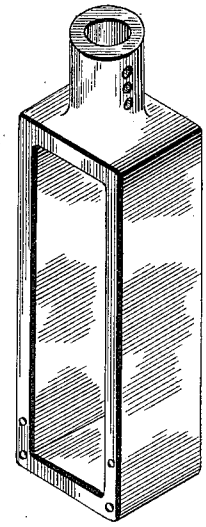


Fig. 4.

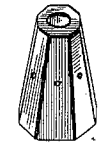


Fig. 5.

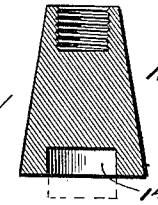


Fig. 7.

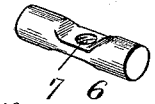
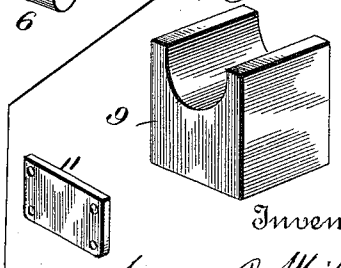


Fig. 6.



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UNITED STATES PATENT OFFICE.

AMOS C. WILSON, OF BUTLER, PENNSYLVANIA.

PITMAN.

SPECIFICATION forming part of Letters Patent No. 566,365, dated August 25, 1896.

Application filed October 29, 1895. Serial No. 567,260. (No model.)

To all whom it may concern:

Be it known that I, AMOS C. WILSON, a citizen of the United States, residing in Butler, in the county of Butler, and in the State of Pennsylvania, have invented a new and original Improvement in Pitmen Used in Drilling and Operating Oil, Gas, and Water Wells; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improved pitman, and has for its object to provide a simple construction whereby the parts can be readily attached and detached by those not skilled in the art.

In the drawings, Figure 1 is a side elevation of my improvement. Fig. 2 is an end view. Fig. 3 is a detail perspective view of a yoke used in the construction of my device. Fig. 4 is a detail of the adjustable nut. Fig. 5 is a cross-section of the same. Fig. 6 is a detail of the lower bearing-block. Fig. 7 is a detail.

The same numerals refer to like parts in all the figures.

The numeral 1 represents my improved pitman as a whole; 2, the pitman-rod, provided with screw-threads 3 at its upper end.

The pitman is passed through a slot 4 in the outer end of a walking-beam 5, and is secured thereto by a cross-bar 6, which is provided with a screw-threaded perforation 7, with which the screw-thread 3 engages. A short distance from the bottom of the pitman-rod I securely bolt a yoke 8, on the lower cross-arm of which is mounted a bearing-block 9. The block is placed in the lower portion of the yoke and against the front face of the crank-wheel 10, after which a plate 11 is bolted to the front of the yoke by bolts 12. It will be thus seen that only one plate is necessary to retain the block in position, the front face of the crank-wheel taking the place of a plate in the rear of the yoke. Should it be necessary to take out the block and insert a larger or smaller one, the front plate is removed and the block and the other one inserted. The lower end of the pitman-rod is screw-threaded and is designed to engage a screw-threaded opening in the upper end of a nut 13. This nut is provided on its lower face with a hole 14, in which a bearing-block 15 is seated.

In practice the average length of the pitman is secured by adjusting the pitman-rod in the upper cross-bar, then the yoke is placed around the crank-pin, and the final adjustment is made by turning the nut 13, causing the block 15 to bear down on the crank-pin.

Should the distance between the bottom of the nut and the top of the crank-pin be too short, the bolts 17, which secure the yoke to the pitman-rod, are withdrawn and the rod moved up and the bolts inserted in any of a series of perforations 16 in the pitman-rod. By this means I am enabled to provide a third adjustment in attaching the pitman.

From what has been said it will be seen that I have provided a pitman that can be quickly and conveniently put up or taken down and one that can be adjusted.

Having thus described my invention, what I claim is—

The combination of a pitman-rod having screw-threads at both ends, a walking-beam, a cross-bar journaled on the end of the walking-beam and engaging the screw-threads at the upper end of the pitman-rod, a nut adjustably mounted on the lower end of the pitman-rod and carrying a bearing-block at its lower end adapted to engage the crank-pin, a yoke adjustably mounted on the pitman-rod, a bearing-block in the lower end of the yoke to engage the crank-pin and resting against the face of the crank-wheel, and a retaining-plate secured to the outer side of the yoke and bearing against the outer face of said last-mentioned bearing-block.

AMOS C. WILSON.

Witnesses:
S. F. BOWSER,
G. T. HEYDRICK.