

No. 608,528.

Patented Aug. 2, 1898.

B. F. SMITH.
AXLE SETTING AND STRAIGHTENING TOOL.

(Application filed May 24, 1897.)

(No Model.)

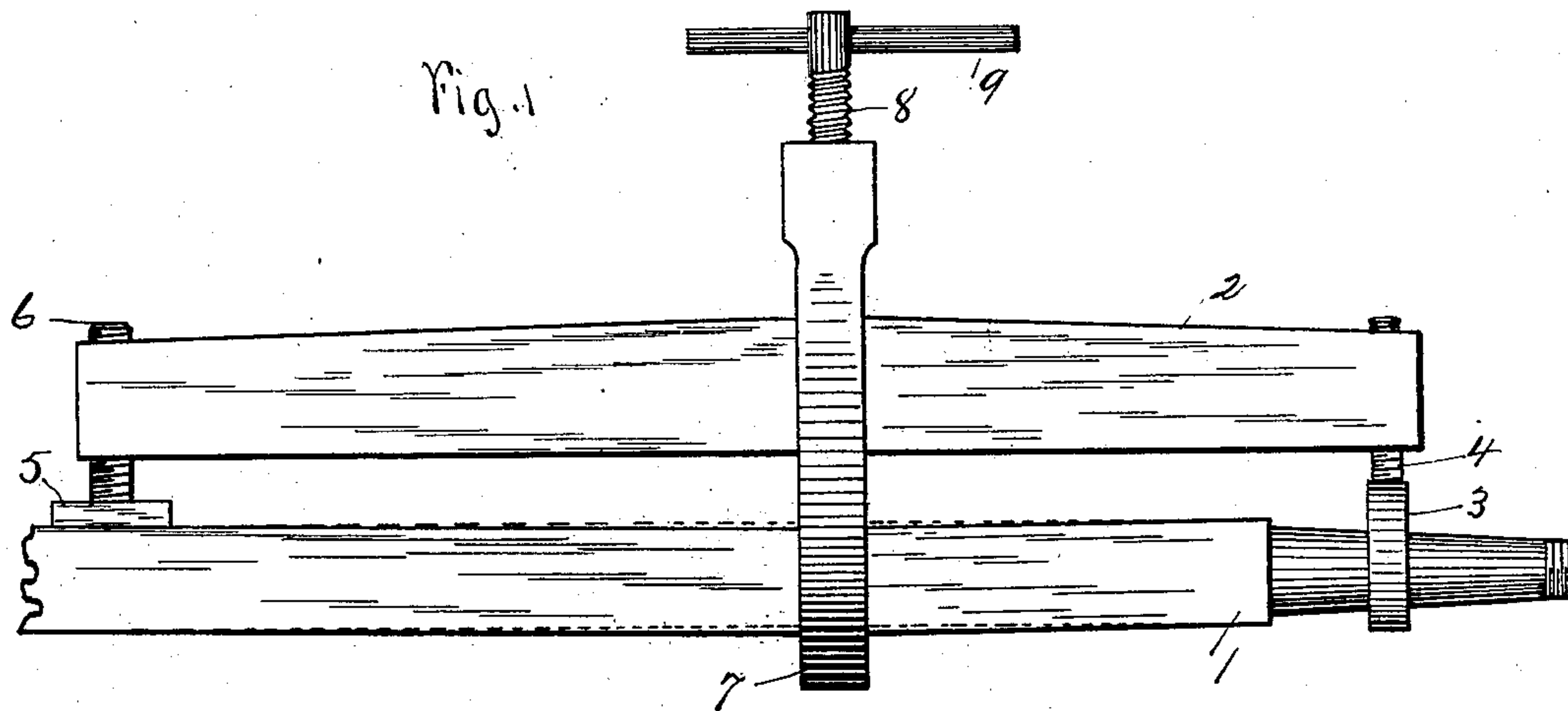


Fig. 2.

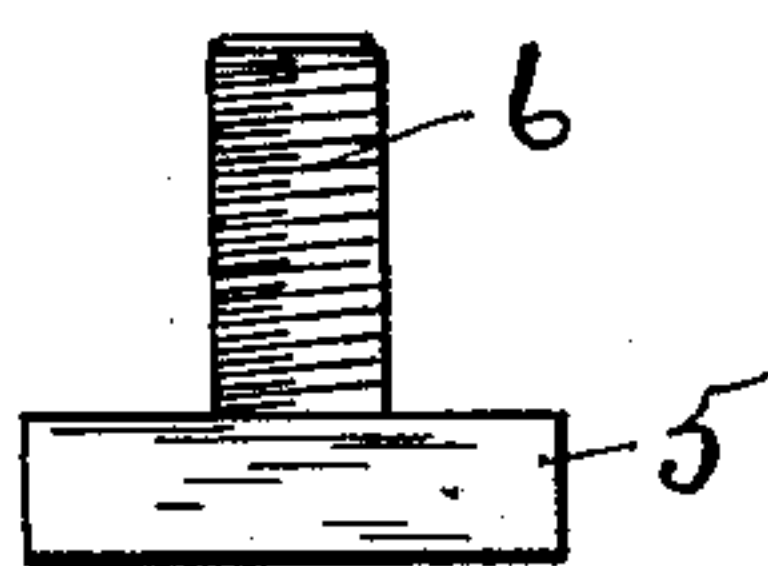


Fig. 3.

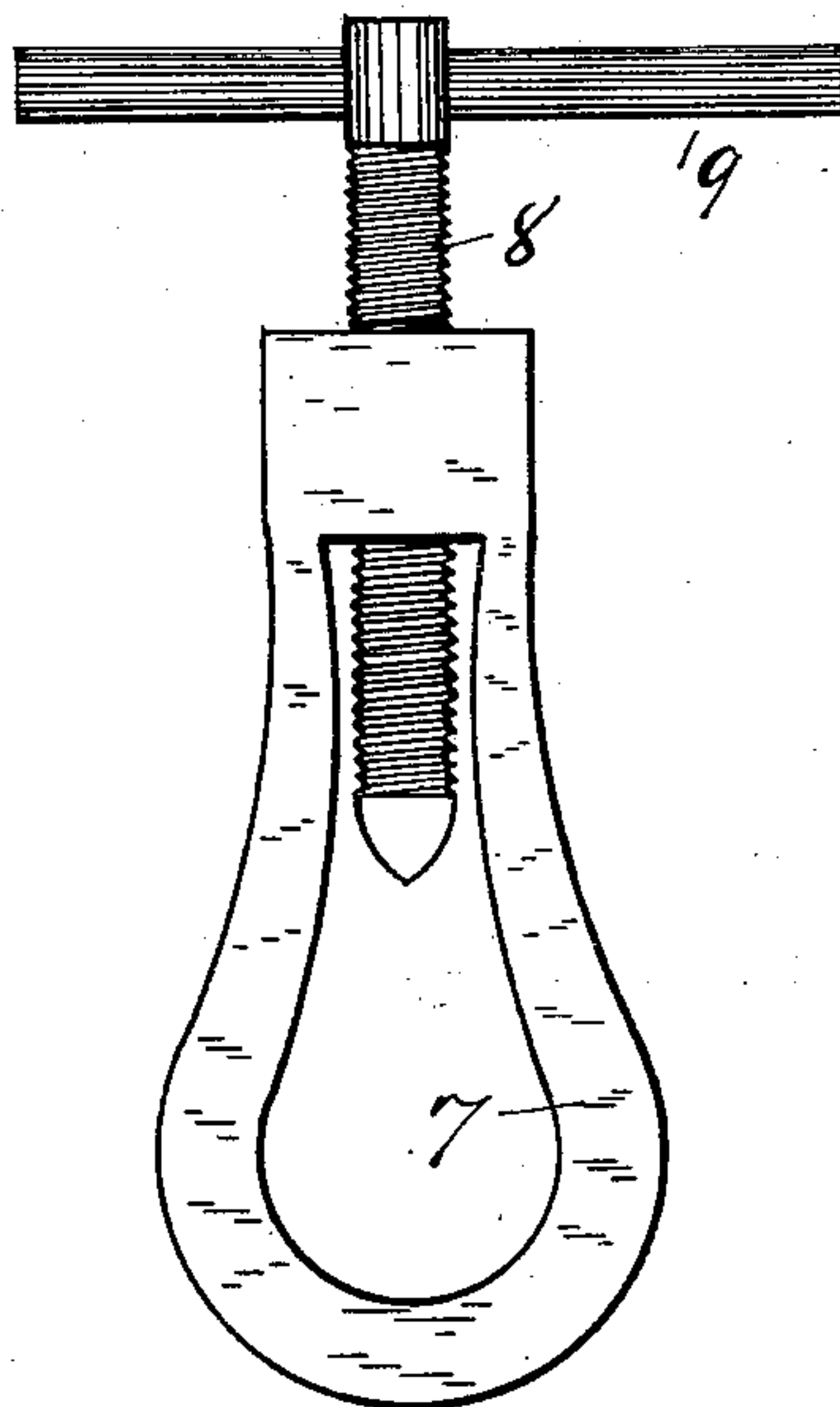
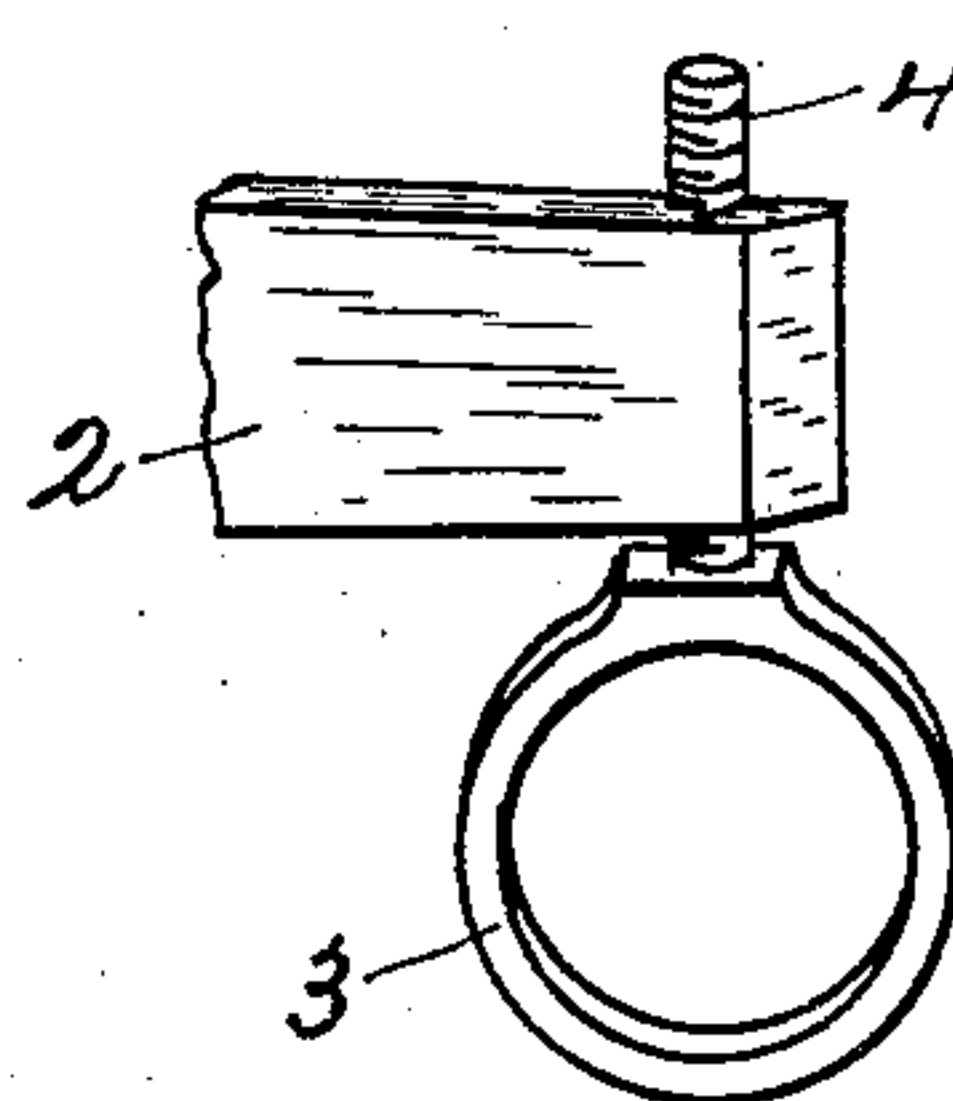


Fig. 4.



Witnesses

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BENJAMIN F. SMITH, OF WICHITA, KANSAS, ASSIGNOR OF ONE-HALF TO
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AXLE SETTING AND STRAIGHTENING TOOL.

SPECIFICATION forming part of Letters Patent No. 608,528, dated August 2, 1898.

Application filed May 24, 1897, Serial No. 637,882. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN F. SMITH, a citizen of the United States of America, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented certain new and useful Improvements in Axle Setting and Straightening Tools, of which the following is a specification, reference being had therein to the accompanying drawings and the figures of reference thereon, forming a part of this specification, in which—

Figure 1 is a side view of my improved axle setting and straightening tool. Fig. 2 is a like view of one of the screw-adjusting blocks. Fig. 3 is a side view of the axle setting or straightening loop or stirrup, and Fig. 4 is a perspective view of the adjustable spindle-loop.

This invention relates to certain improvements in axle setting and straightening tools; and it consists of the solid bar of steel with adjustable blocks at either end and a loop or stirrup adapted to surround both the axle and the steel bar, said loop or stirrup having the screw 8; and the object of my invention is to provide a tool with which an axle can be set or straightened without removing it from the vehicle.

Referring to the drawings, 1 represents an axle slightly bent, as shown by the dotted and solid lines in Fig. 1.

2 represents a solid steel bar.

3 represents a spindle-loop adapted to surround a vehicle-spindle. Said loop is provided with the adjusting-screw 4.

5 represents a block having the adjusting-screw 6. Said adjusting-screws 4 and 6 are for the purpose of adjusting the bar 2 to the axle 1.

7 represents a loop or stirrup adapted to surround the bar and axle. Said loop is provided with the screw 8, which has the handle

9 for the purpose of drawing the axle and bar together, and as the bar is the stronger the axle must give.

In operation this tool is used in the following manner: When the axle is bent down in the manner shown by the solid and dotted lines in Fig. 1, the tool is placed on the top of said axle, with the center of the bar about at the center of the bent portion of the axle, the block 5 resting on the axle at one end and the loop 3 sleeved on the spindle of said axle. The loop or stirrup is then slipped over the axle and bar to the center of the bent portion of said axle, or said loop may be slid to any position on the bar and axle, the screw 8 resting on the bar 2 and the loop 7 engaging the under surface of the axle 1, when the screw can be tightened, which will bend the axle as much as may be desired.

The tool can be in like manner placed on any side or in any position on the axle and operated as described, straightening any bend that there may be.

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

In an axle straightener and setter the combination of a solid bar provided with a screw-threaded hole at each end, a spindle-loop having a screw end adapted to fit in one of said screw-threaded holes, a block having a screw end adapted to fit in the other of said threaded holes, a solid loop or stirrup with one end larger than the other, the smaller end having a screw-threaded hole, a screw adapted to fit in said screw-threaded hole, and a handle-bar for turning said screw.

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Witnesses:

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