

Nov. 18, 1924.

1,516,366

C. R. WILLIAMS ET AL

WORK HOLDING STAND

Filed March 23, 1923

2 Sheets-Sheet 1

Fig. 1.

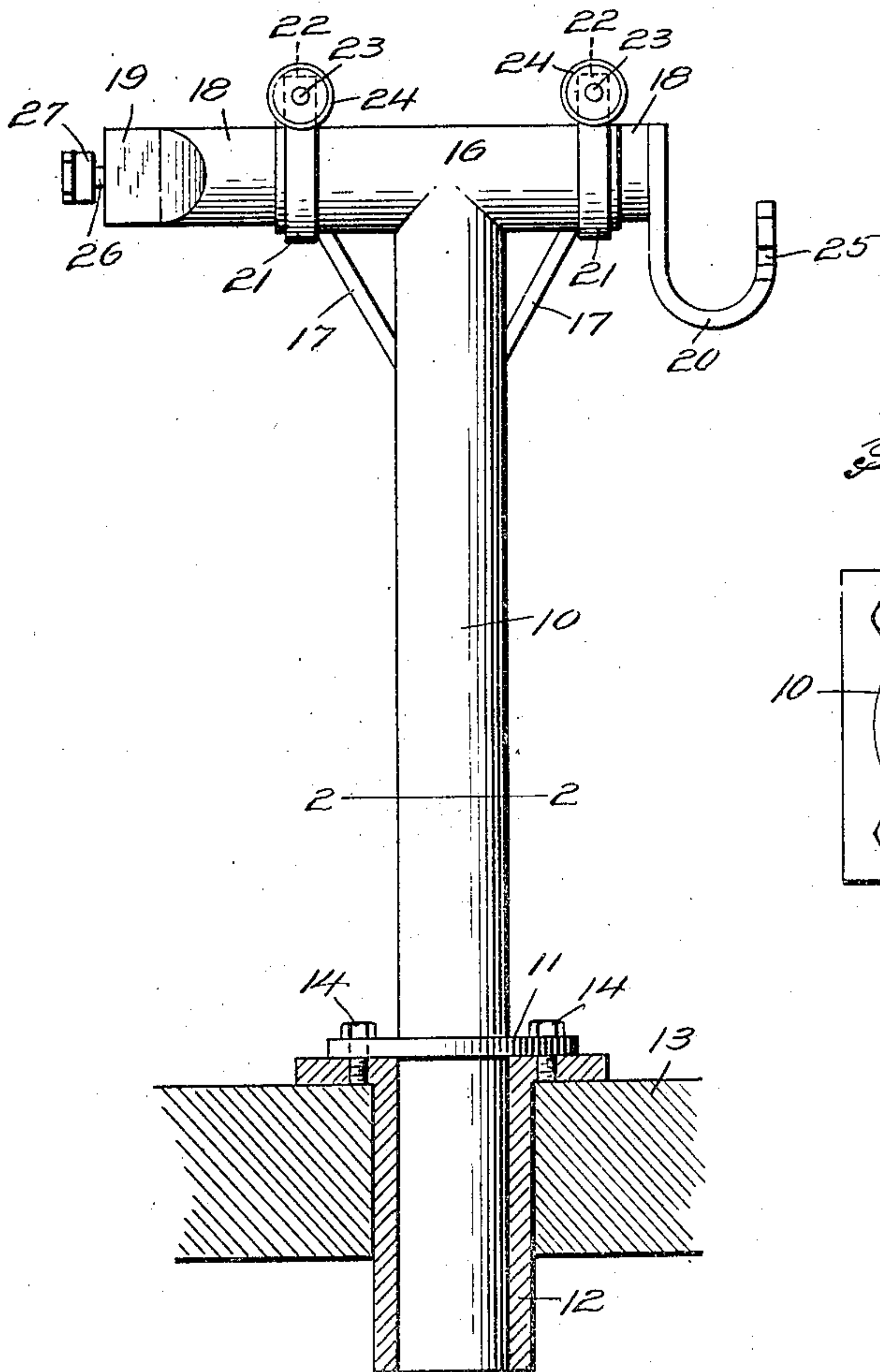
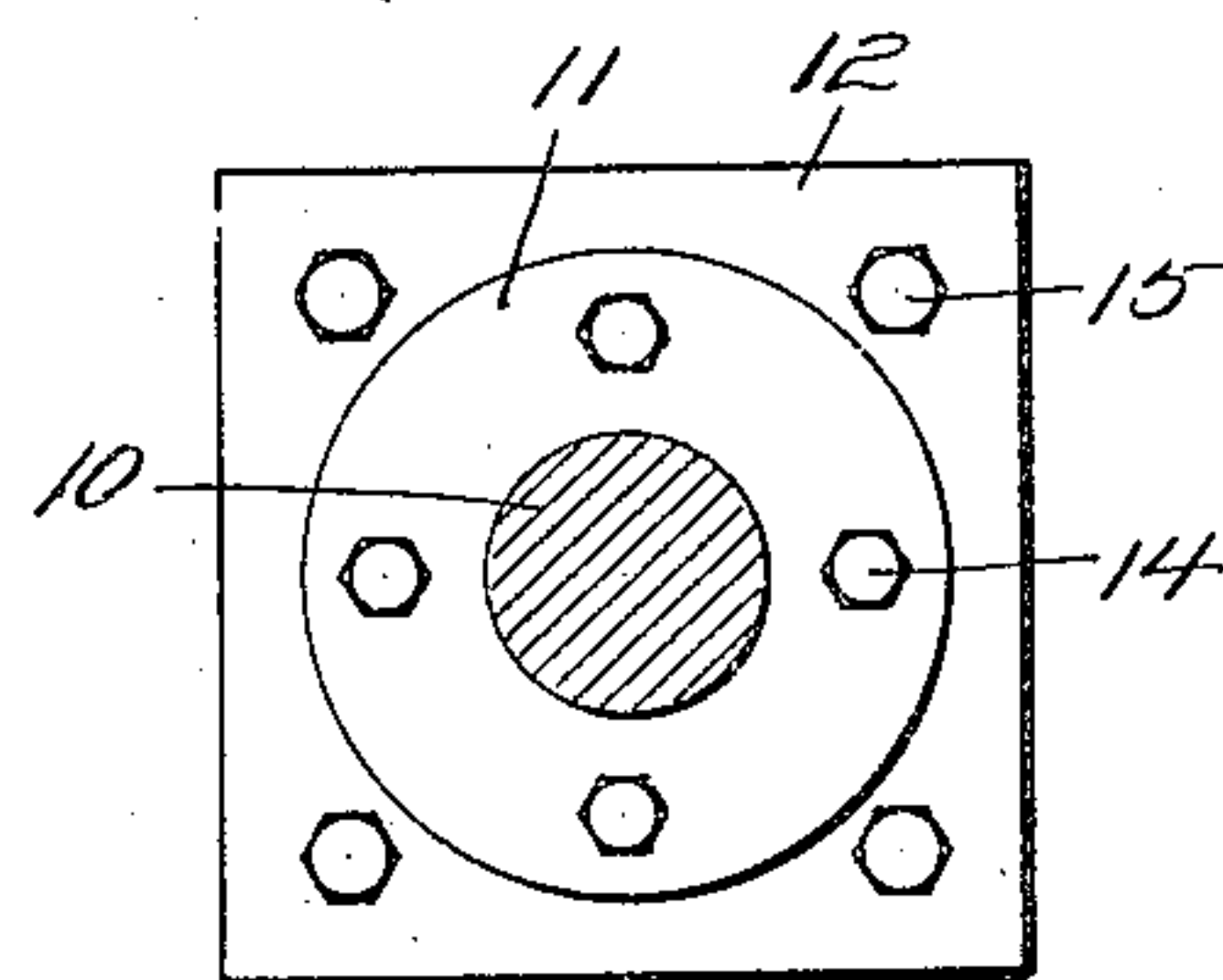


Fig. 2.



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Fig. 3.

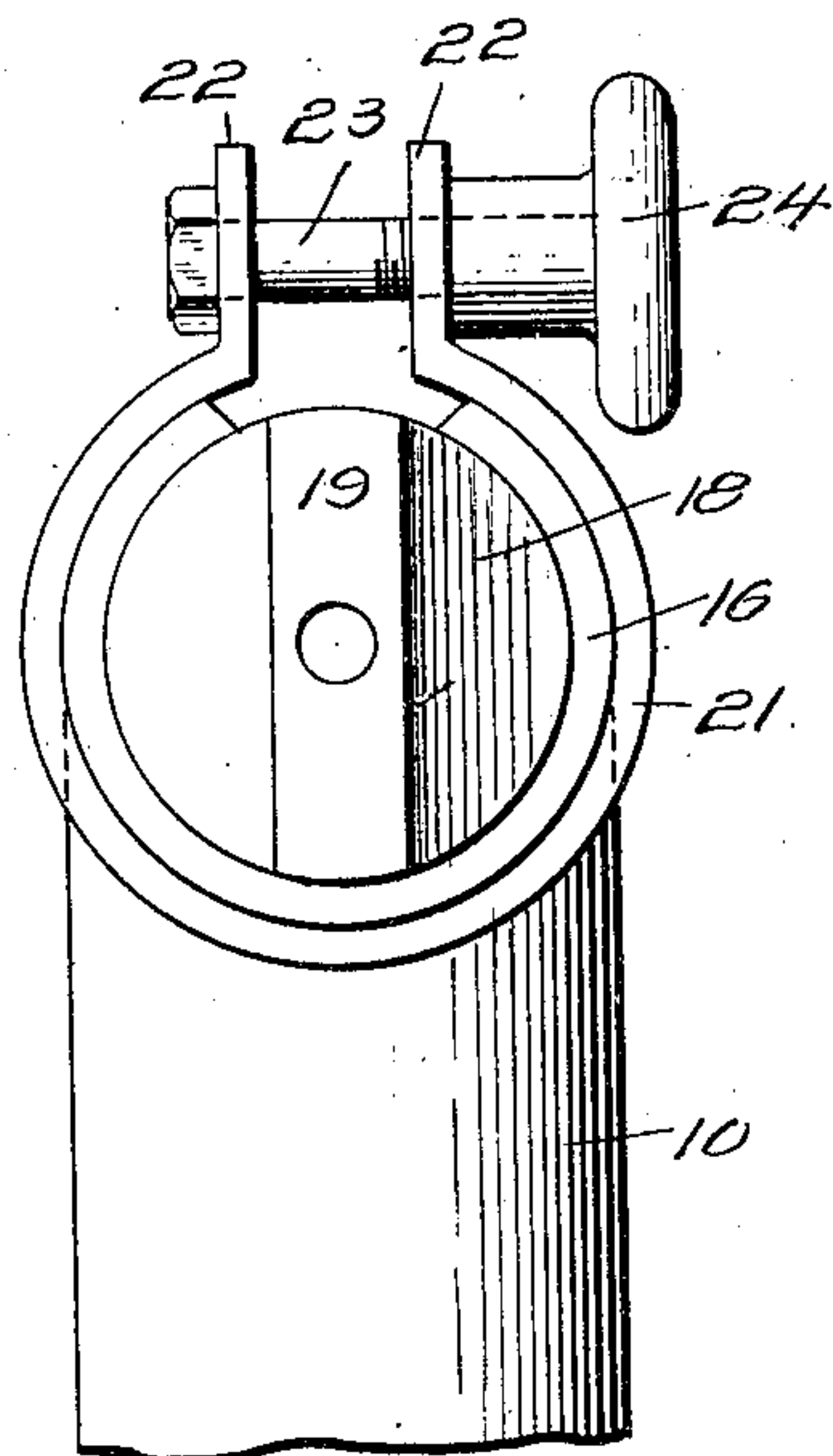


Fig. 4.

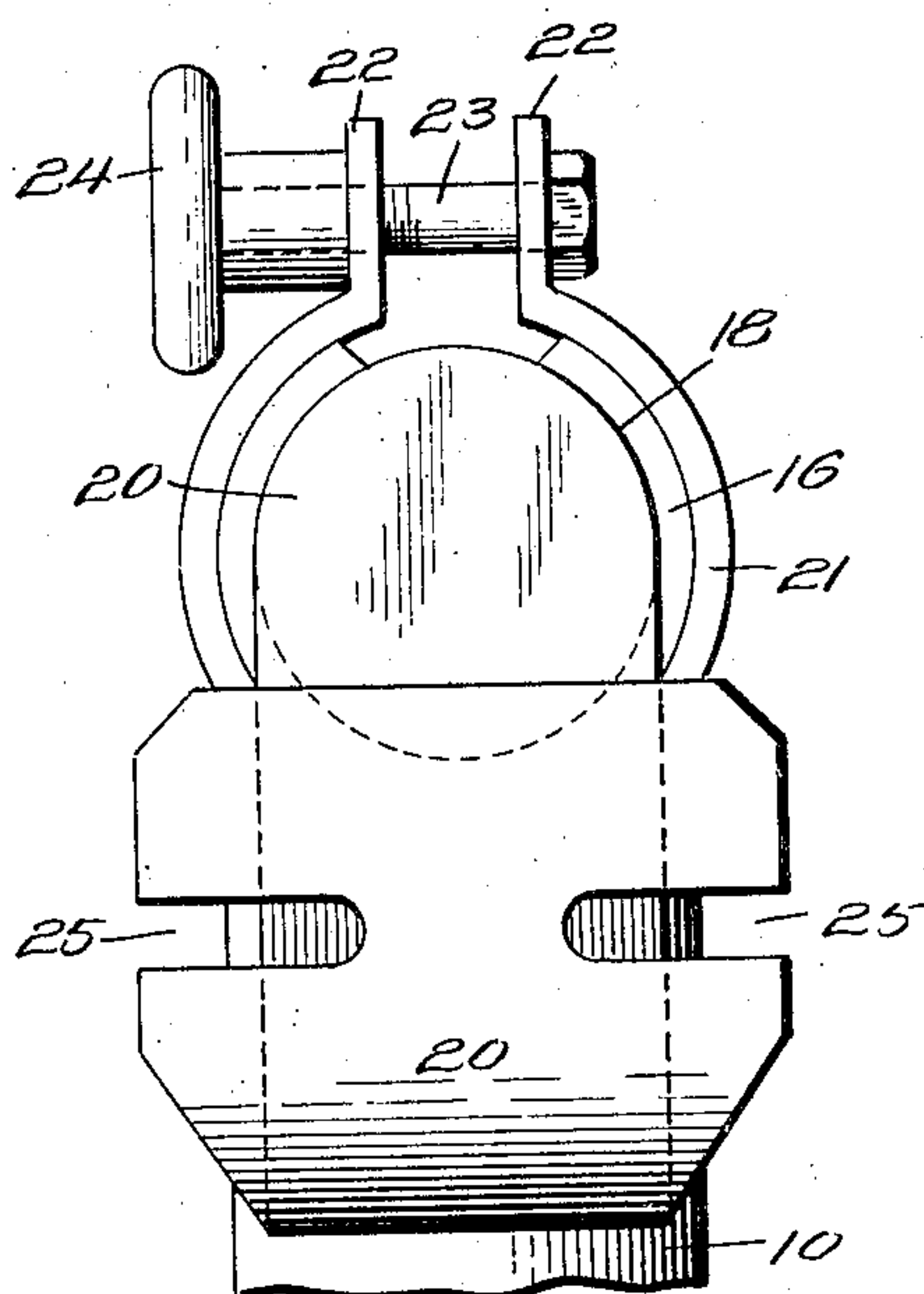


Fig. 5.

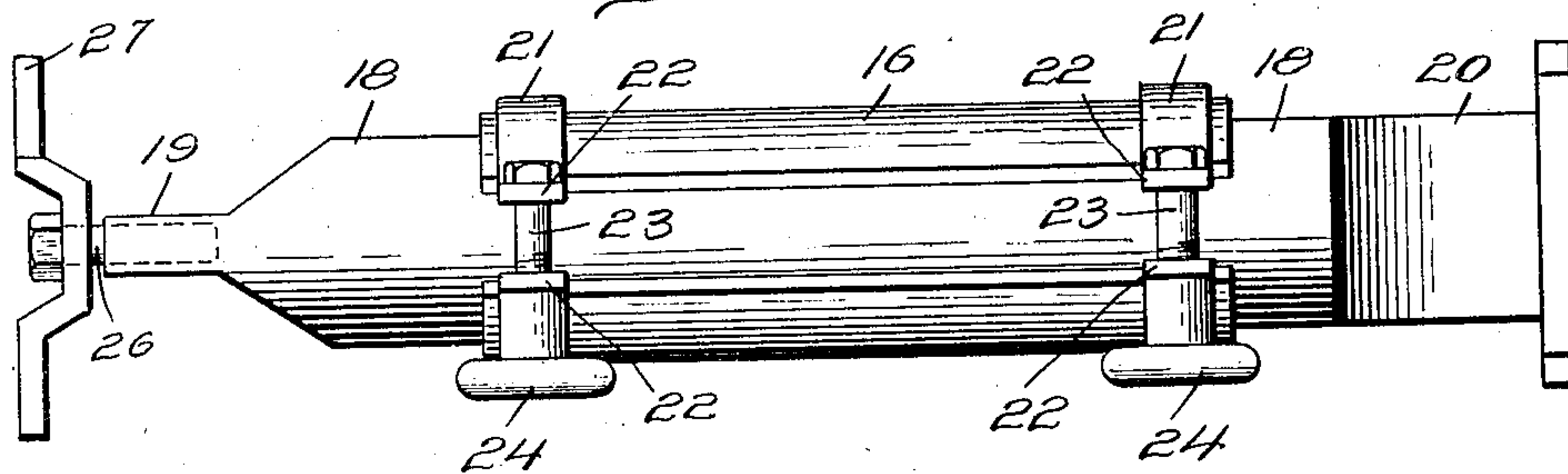
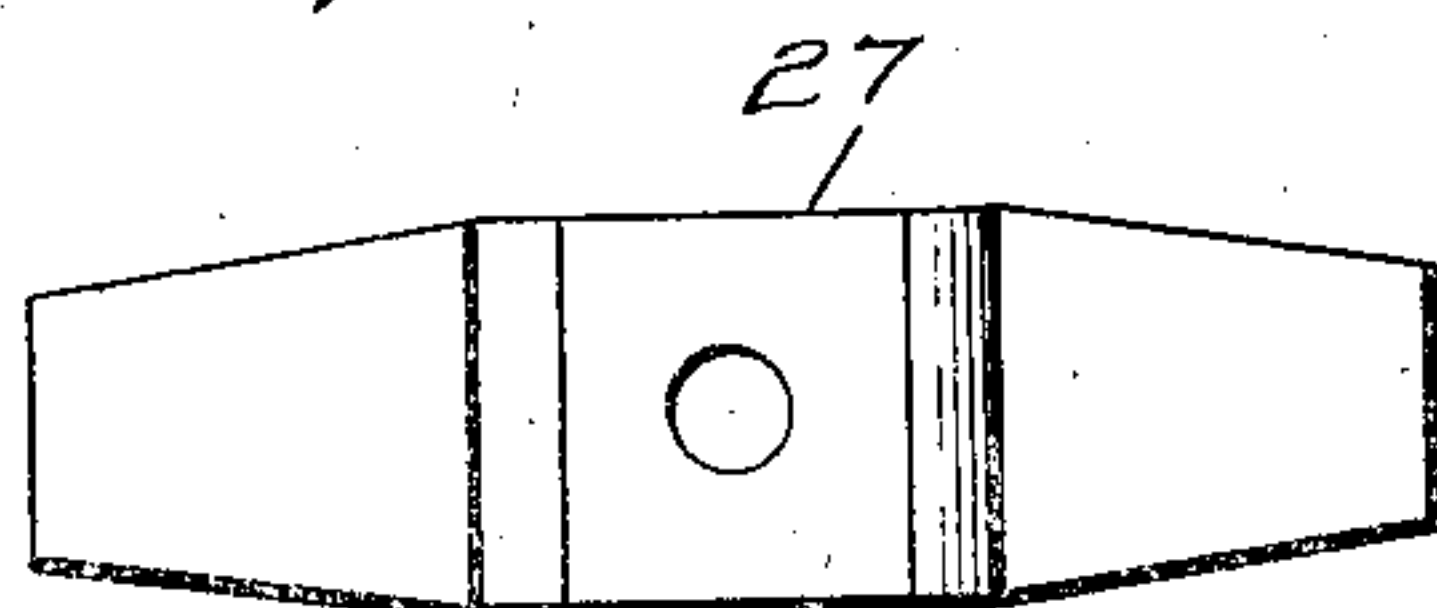


Fig. 6.



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UNITED STATES PATENT OFFICE.

CHARLES R. WILLIAMS, RALPH WYGANT, AND CALVIN D. WILLIAMS, OF MORA,
MINNESOTA.

WORK-HOLDING STAND.

Application filed March 23, 1923. Serial No. 627,186.

To all whom it may concern:

Be it known that we, CHARLES R. WILLIAMS, RALPH WYGANT, and CALVIN D. WILLIAMS, citizens of the United States, residing at Mora, in the county of Kanabec and State of Minnesota, have invented certain new and useful Improvements in Work-Holding Stands, of which the following is a specification.

This invention relates to work supporting stands for use more particularly in garages, repair shops, and similar establishments, and has for one of its objects to provide a device of this character having means for supporting the cylinder body or other parts of an internal combustion motor in convenient position for the workman while being repaired, and with means for adjusting the structure being held to any required angle to enable all parts to be easily and conveniently reached.

With these and other objects in view the invention consists in certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims, and in the drawings illustrative of the preferred embodiment of the invention—

Figure 1 is a side elevation of the improved device, partly in section.

Figure 2 is a plan view in section on the line 2—2 of Figure 1, looking in the direction of the arrow.

Figures 3 and 4 are enlarged views from the opposite ends of the upper portion of the improved device.

Figure 5 is a plan view enlarged of the head portion and the stock of the improved device.

Figure 6 is a detached side view of the clamp plate.

The improved device comprises a vertical standard 10 having a stop collar 11 and adapted to be supported in a socket 12, the latter embedded in a foundation 13, for instance the floor of a garage, repair shop or the like.

The collar is secured to the socket by clamp screws 14, while the socket is secured to the foundation by clamp screws 15.

Attached to the upper end of the standard 10 is a longitudinally split tubular head member 16 extending horizontally and open at the ends and opening upwardly. The head member is formed integral with the

standard, preferably by electric welding or the like, and is supported by the diagonal braces 17.

Slidably and rotatably engaging the tubular head member 16 is a stock member 18 reduced at one end as shown at 19 and having a U-shaped clip device 20 integrally formed therewith at the other end.

Encompassing the divided head member 16 near the ends are split clamping bands 21 having upturned terminals 22 pierced to receive clamp screws 23, the latter provided with straining nuts 24, as shown.

By this means the split bands 21 may be utilized to compress the tubular split head or sleeve member 16 firmly upon the stock 18 and hold the latter in adjusted position to any required extent.

The outer leg of the U-shaped clip 20 is widened as shown and the widened portion provided with laterally opening slots 25, to receive clamp screws or the like, adapted to hold any article in engagement with the clip.

The reduced portion 19 of the stock is provided with a threaded socket to receive a headed clamp bolt 26 to hold a keeper device 27 in position, the latter operative to hold a structure, for instance the cylinder body of an internal combustion motor, in position, the reduced portion 19 adapted to enter between a pair of the cylinders, and the keeper device 27 to bear against the outer faces of the cylinders.

The improved device is simple in construction, can be manufactured at relatively small expense and as light as possible consistent with the strains to which it will be subjected.

The preferred embodiment of the invention is disclosed in the drawings and set forth in the specification, but it will be understood that modifications within the scope of the claimed invention may be made in the construction without departing from the principle of the invention or sacrificing any of its advantages.

Having thus described the invention what is claimed as new is:

A device of the class described comprising, a standard, a split tubular transverse head formed upon the upper end of said standard, a cylindrical stock movable in said head and having one end thereof cut in upon opposed sides to form a relatively

5 narrow work engaging end, said work engaging end being extended a substantial distance beyond the end of said head to support a piece of work free from said standard and the end of the head, a headed pin threaded into said narrow end, a transversely extending clamp carried upon said pin between the head thereof and said narrow

end, and means for retaining said stock in position in said head.

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In testimony whereof, we affix our signatures hereto.

CHARLES R. WILLIAMS.
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CALVIN D. WILLIAMS.