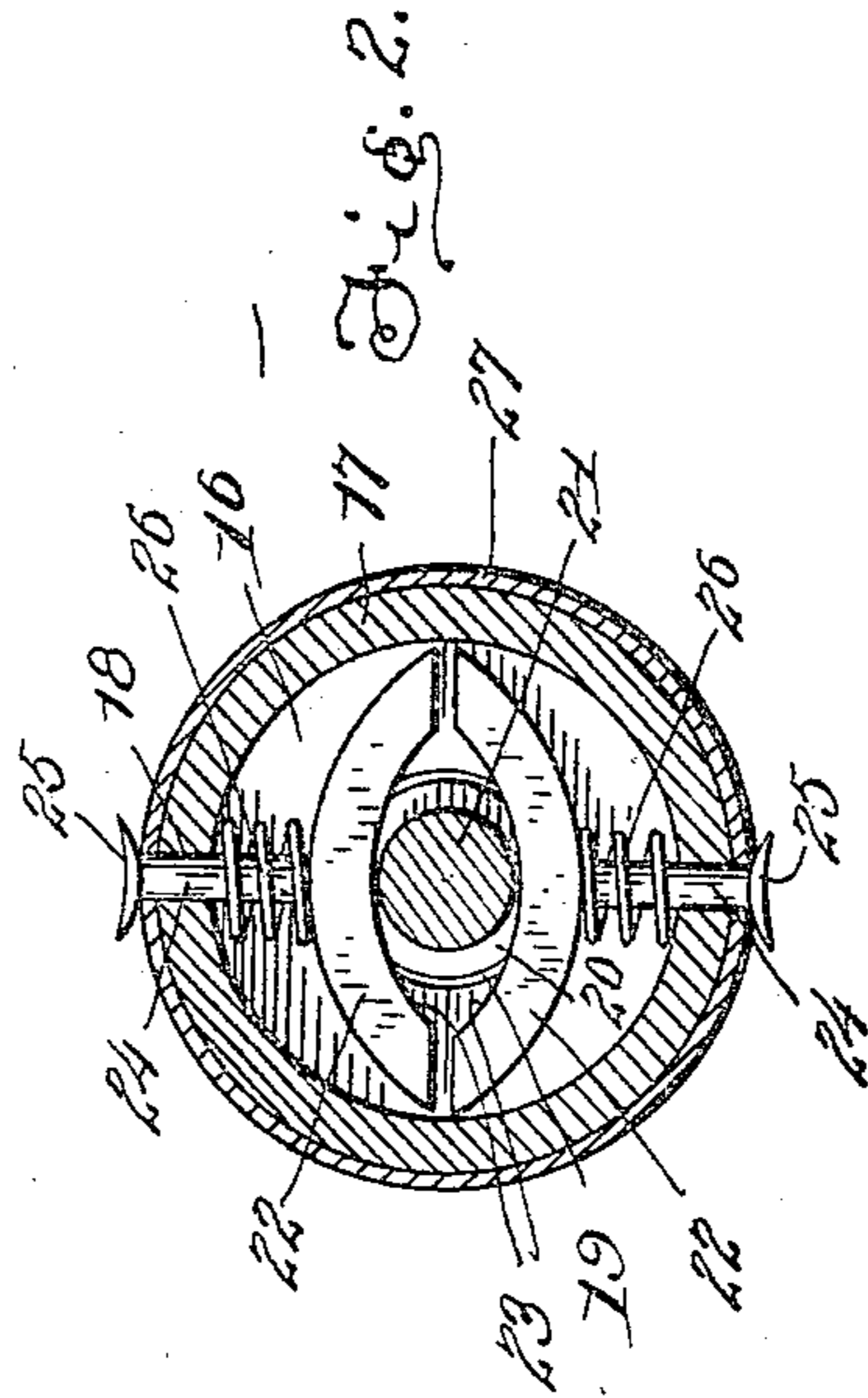
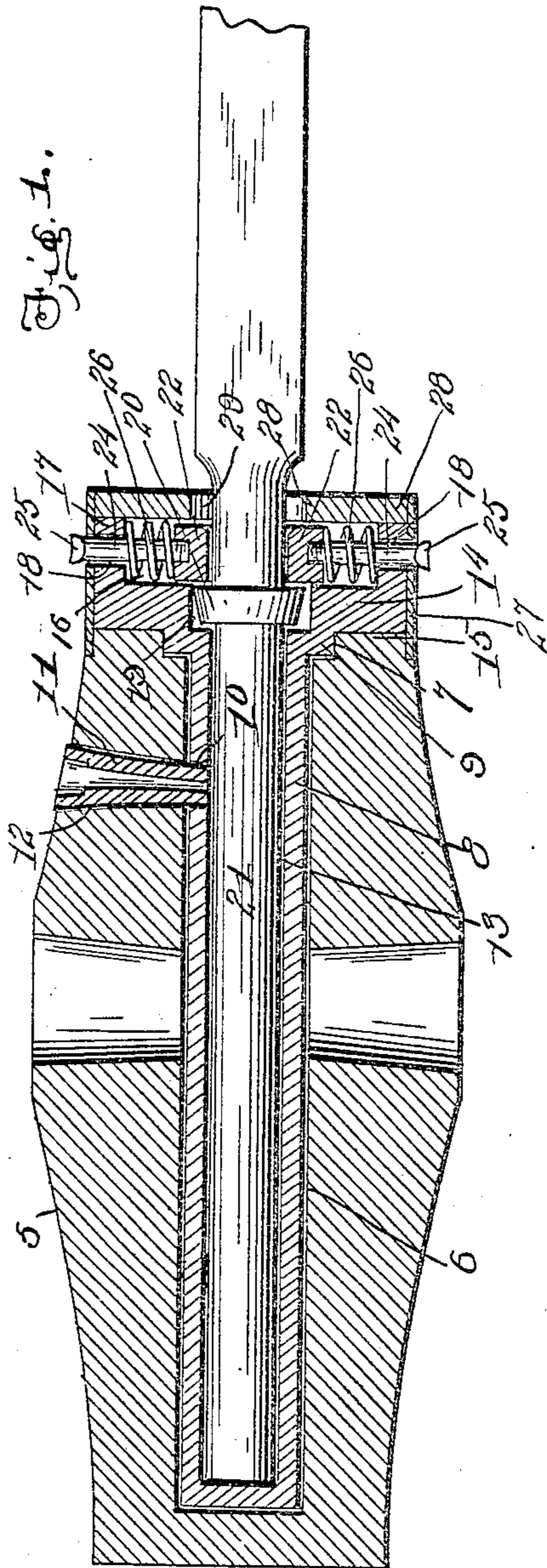


H. A. JANNEY.
WHEEL RETAINER.
APPLICATION FILED MAY 10, 1905.



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UNITED STATES PATENT OFFICE.

HUGH A. JANNEY, OF MIDDLEWAY, WEST VIRGINIA.

WHEEL-RETAINER.

No. 800,651.

Specification of Letters Patent.

Patented Oct. 3, 1905.

Application filed May 10, 1905. Serial No. 259,766.

To all whom it may concern:

Be it known that I, HUGH A. JANNEY, a citizen of the United States, residing at Middleway, in the county of Jefferson, State of West Virginia, have invented certain new and useful Improvements in Wheel-Retainers; 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.

This invention relates to wheels, and more particularly to retainers therefor, and has for its object to provide a retainer which will be arranged to maintain a wheel in position upon a wagon and which will be so constructed that the wheel may be quickly and easily placed in position and removed.

Another object is to provide a novel arrangement in which the operative parts will all be carried by the boxing of the hub in order that the hub and the remainder of the wheel may be easily removed from the boxing and attaching mechanism when desired, a further object being to provide an oil-tube in connection with the retainer which will be arranged to oil the wheel and which will also act to hold the boxing at times within the hub.

Other objects and advantages will be apparent from the following description, and it will be understood that changes in the specific construction shown and described may be made within the scope of the claim and that any suitable materials may be used without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in both views, Figure 1 is a longitudinal section through a hub embodying the present invention, the spindle and other parts being shown in elevation. Fig. 2 is a transverse section through the structure as shown in Fig. 1.

Referring now to the drawings, the present invention includes a hub 5 having a longitudinal passage 6 formed through its center and enlarged at its inner end, as shown at 7. A boxing 8 fits snugly within the passage 6 and has an enlargement 9 adjacent to its inner ends, which lies within the enlargement 7 of the passage, and this boxing has an opening 10 therein, which receives the inner end of an oil-tube 11, which is engaged in a radial passage 12, formed in the hub, the tube thus holding the boxing in position, but being removable to permit the disengagement of the boxing when desired. The boxing has a lon-

gitudinal bore 13, which opens through the face of a cylindrical head 14, formed upon the inner end of the boxing and lying against the inner end 15 of the hub, and the bore is enlarged in this head to form a pocket 16, which is surrounded by what is, in effect, a flange 17, the latter having radial passages 18 at diametrically opposite points. The bore 13 of the boxing has an intermediate enlarged portion 19 of lesser diameter than the pocket 16, which lies within the enlargement 9 of the boxing, and this enlargement 19 receives a circular flange 20, carried by a spindle 21 adjacent to its inner end, this spindle being revolubly disposed within the boxing.

A pair of cooperating arcuate jaws 22 are disposed within the pocket 16 with their concave surfaces 23 directed toward each other, and these jaws have stems 24, which are slidably engaged in the passages 18 and have transversely-extending finger-pieces 25 at their outer ends. Helical springs 26 are engaged with the stems between the flange 17 and the jaws, holding the latter yieldably at the inward limits of their movement and projecting over the enlargement 19 and flange 20 to hold the spindle against disengagement from the boxing. A metallic band 27 is secured to the outer face of the head 14, projecting over the inner end of the hub and also beyond the inner face of the head and over the edges of a circular cap-plate 28, secured to the inner end of the head and having a central opening 29, in which the spindle is disposed.

What is claimed is—

A device of the class described comprising a hub, a boxing engaged in the hub, removable means for holding the boxing in the hub, a head carried by the inner end of the boxing beyond the hub, the bore of the boxing being enlarged in the head to form a pocket opening through the inner face of the head, said bore being enlarged outwardly of the pocket, the second-named enlargement being of lesser diameter than the first, radial passages formed in the head and communicating with the pocket, a spindle engaged in the boxing for rotation of the latter thereupon, a flange carried by the spindle and lying in the second enlargement, cooperating jaws in the pocket and extending over the second enlargement and the flange of the spindle to hold the boxing against disengagement from the spindle, stems carried by the jaws and engaged in the radial passages, finger-pieces carried by the

outer ends of the stems, springs engaged with
the stems between the jaws and the wall of
the pocket, said jaws being movable against
the action of the springs to permit the disen-
5 gagement of the boxing from the spindle, a
band engaged with the head and projecting
over the end of the hub, and a cap-plate se-
cured against the inner face of the head to
close the pocket and lying within the inclo-

sure of the band, said cap-plate having an
opening therein in which the spindle is dis-
posed.

In testimony whereof I affix my signature in
presence of two witnesses.

HUGH A. JANNEY.

Witnesses:

H. S. NICELY,

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