

No. 842,485.

PATENTED JAN. 29, 1907.

J. S. MILLER.

WHEEL.

APPLICATION FILED JUNE 27, 1906.

Fig. 1.

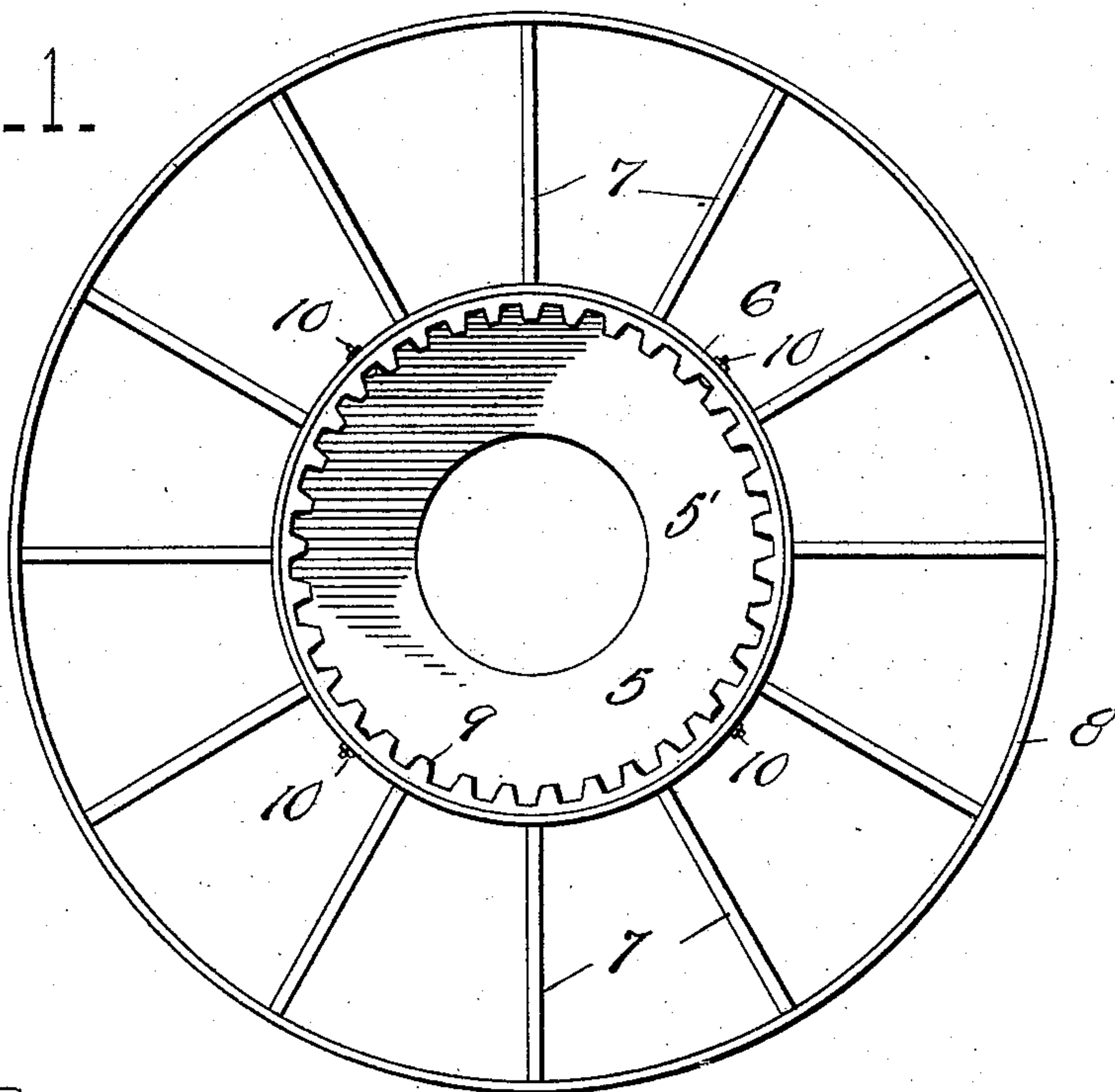


Fig. 2.

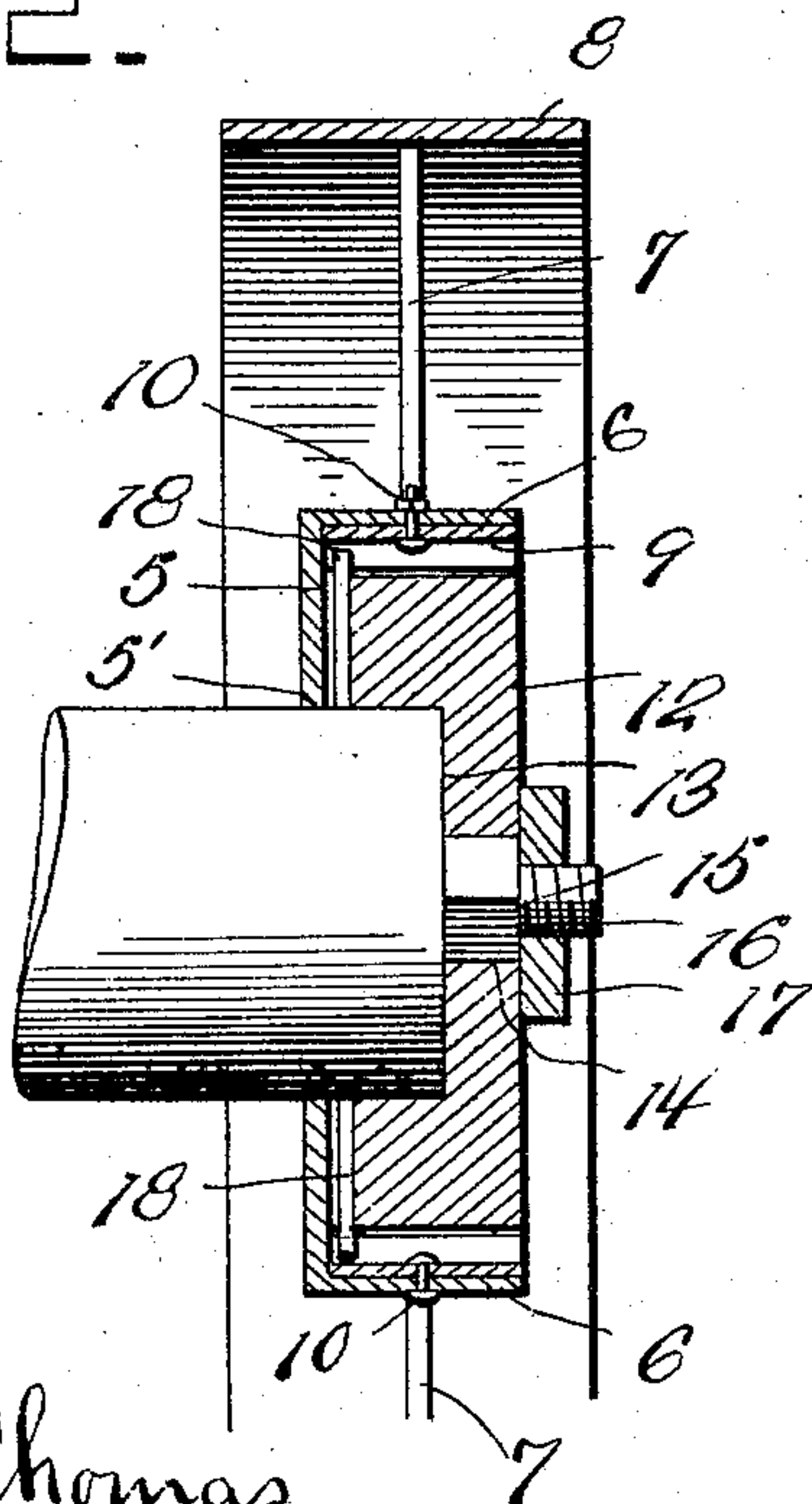
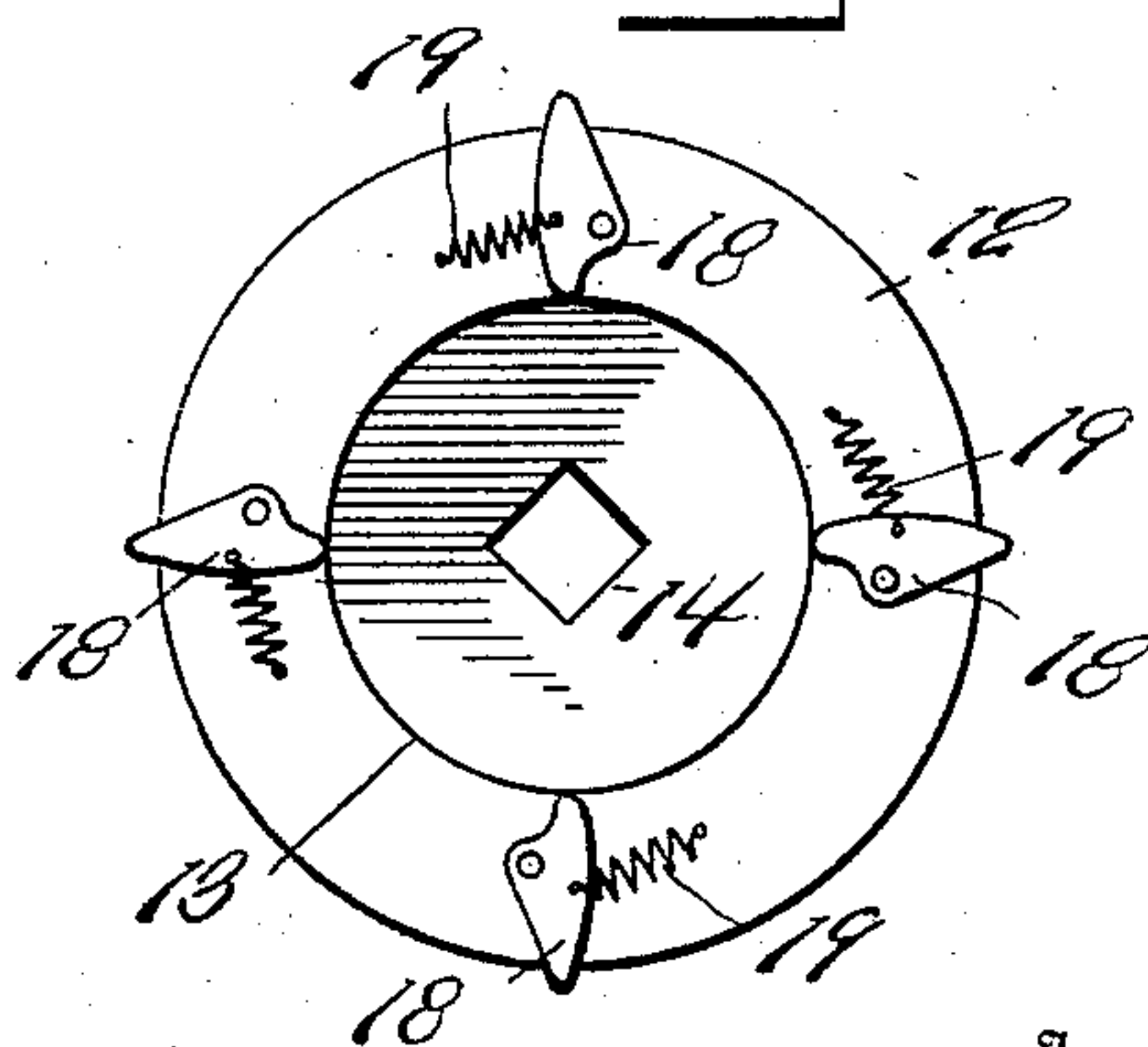


Fig. 3.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH S. MILLER, OF PALMDALE, CALIFORNIA.

WHEEL.

No. 842,485.

Specification of Letters Patent.

Patented Jan. 29, 1907.

Application filed June 27, 1906. Serial No. 323,612.

To all whom it may concern:

Be it known that I, JOSEPH SCOTFORD MILLER, a citizen of the United States, residing at Palmdale, in the county of Los Angeles, State of California, have invented certain new and useful Improvements in Wheels; 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 traction-wheels for mowers and similar implements, and has for its object to provide a wheel of the ratchet type which is revoluble with the mechanism in one direction and independently thereof in the opposite direction and which will be of such a structure that worn parts may be removed for replacements.

It is to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a view showing the present wheel in elevation and with the cap member removed. Fig. 2 is a vertical section through the wheel with the cap member in position. Fig. 3 is an interior view of the cap member, showing the arrangement of the dogs.

Referring now to the drawings, there is shown a wheel comprising a hub which includes an annular plate 5, having at its outer periphery a circular flange 6, extending at right angles thereto. Spokes 7 are engaged in and extend radially from this flange and carry a tread 8 at their outer ends. An internal band-gear 9 is removably secured within the flange 6 by means of screws 10, which may be easily disengaged to permit of removal of the gear, and the central opening 5' of the plate 5 receives the axle 11 of the mower. A cap member 12 receives the end

of the axle within a central recess 13 and has a squared central opening 14, which receives a squared projection 15 on the end of the axle, this projection having a cylindrical outer extremity, which extends beyond the cap member and which is threaded, as shown at 16, for the reception of a confining-nut 17.

The cap member extends just within the gear 9 and has pivoted thereto a plurality of dogs 18, springs 19 being arranged to hold the dogs in engagement with the teeth of the gear 9 for rotation of the wheel in one direction with the axle, the arrangement being such as to permit movement of the dogs against action of the springs to allow free rotation of the wheel upon the axle in the opposite direction. It will be seen from the drawings that by reason of the fact that the cap is of a size to pass through the internal gear the latter may be removed when worn and a new one substituted therefor while the cap member is in position.

What is claimed is—

The combination with an axle, of a wheel revolubly mounted thereupon and including an annular plate through which the axle passes, said plate having a continuous flange at its outer periphery extending at right angles thereto, radial spokes carried by the flange, a tread carried by the spokes, and an internal gear removably secured within the flange, a cap member secured to the axle for movement therewith, dogs pivoted to the cap member and engaging the gear for rotation of the wheel with the cap member and axle in one direction, and independently thereof in the opposite direction, said cap member being of a size to pass through the gear to permit of removal thereof when the cap is in position.

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

J. S. MILLER.

Witnesses:

PAUL BACHERT,
S. BACHERT.