

H. K. HAZLETT.
Wheels for Vehicles.

No. 152,747.

Patented July 7, 1874.

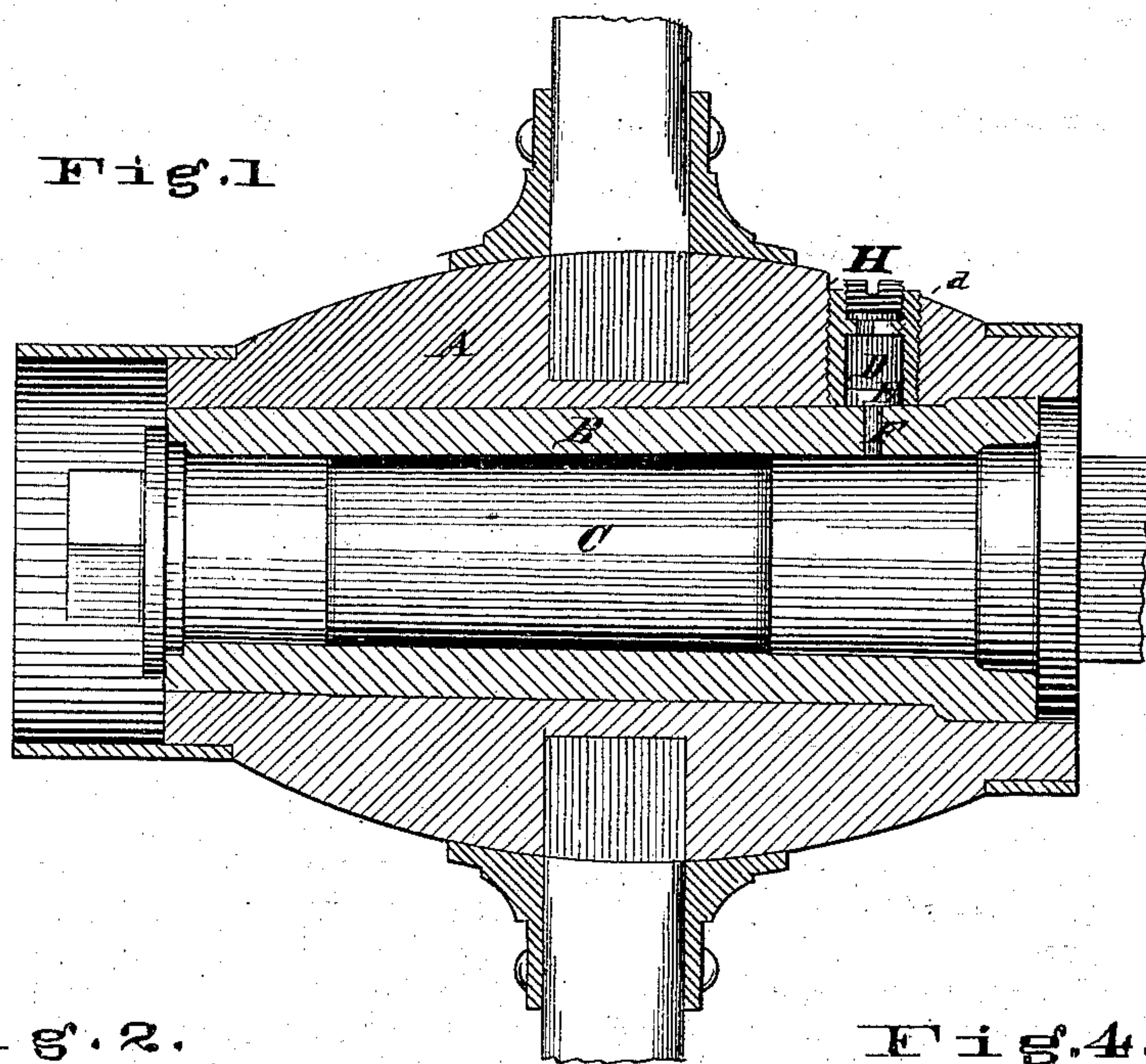


Fig. 2.



Fig. 3.

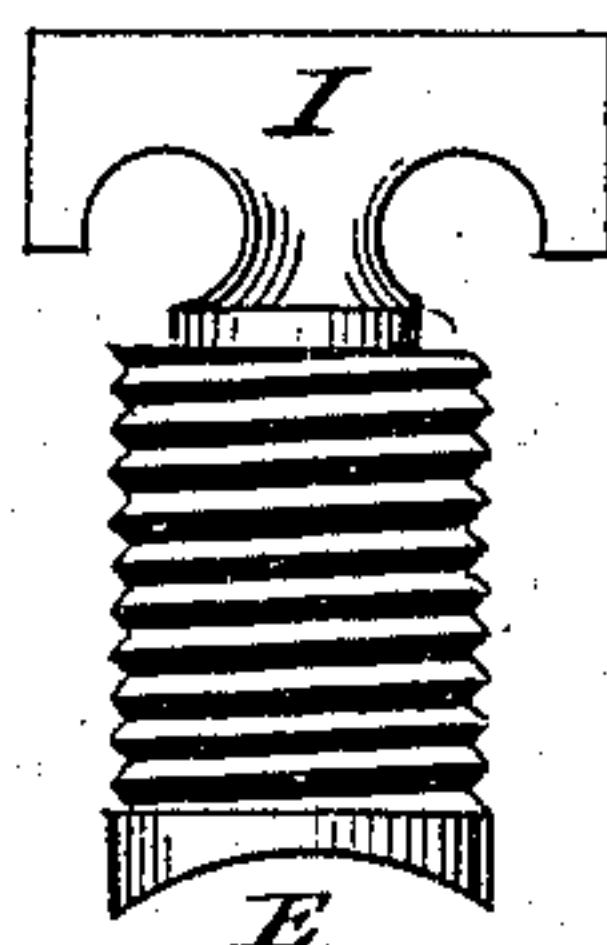


Fig. 4.



ATTEST.

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UNITED STATES PATENT OFFICE

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IMPROVEMENT IN WHEELS FOR VEHICLES.

Specification forming part of Letters Patent No. **152,747**, dated July 7, 1874; application filed June 30, 1873.

To all whom it may concern:

Be it known that I, HIRAM K. HAZLETT, a resident of the city and county of St. Louis, and State of Missouri, have invented new and useful Improvements in Vehicle-Wheel Hubs, of which the following is a full, clear, and exact description, reference being had to the annexed drawing and to the letters of reference thereon marked, making a part of this specification, in which—

Figure 1 is a central longitudinal sectional view of a hub containing the improvement. Figs. 2, 3, and 4 are views of various modifications of the invention.

Similar letters indicate similar parts.

The object of the present invention is to provide a ready, neat, and effectual means for oiling carriage-axles, and consists chiefly in an oil-reservoir of peculiar construction, and arranged in the hub in a novel manner, substantially as is hereinafter described.

In the drawing, A, Fig. 1, represents a vehicle-wheel hub of ordinary construction; and B, the customary boxing; and C, an axle. D represents an oil-cup. It is preferably made in the form of a tube, and is provided with a thread both on its inner and on its outer sides. It is of any suitable diameter, and, in length, extends transversely through the hub from the outside thereof nearly to the boxing B. Underneath the cup D, and between it and the boxing B, is arranged an elastic washer, E, preferably made of rubber. This washer, by preference, is of the shape shown in Fig. 3—viz., concave on its under side—to correspond to the curvature of the boxing, and flat on the upper side. Its thickness is a little more than the space between the cup D and boxing B. There is a passage-way, F, in the boxing B, in line with the center of the cup D when the latter is in position. The passage-way extends

through the boxing. In diameter it is preferably less than that of the cup D. The cup is provided with a cover, H, which may be modified in construction, as shown at H, I, and J, respectively, in Figs. 2, 3, and 4, for the purpose of enabling it to be operated by the hand directly, or by an ordinary screw-driver or wrench. In attaching the cup D in place, it is screwed into the hub A. To enable this to be done readily, the cup, on its inner side, just below the position of the bottom of the cover H, is provided with a flange, *d*, that extends around the cup, and that, on its inner side, is furnished with shoulders. Into the opening thus formed a tool of corresponding shape is inserted, and by turning it the cup is screwed in. When in position the bottom of the cup presses closely against the washer E, which, in turn, is forced against the boxing B. A tight joint beyond the cup and boxing is thus formed.

To operate the invention oil is poured into the cup D and the cover H put on. Under the motion of the wheel the oil trickles down the passage-way F to the axle, and thence along it. In this way a vehicle wheel-axle can be oiled easily, it being necessary to remove the cover of the cup only.

Having described my invention, what I claim as new therein, and desire to secure by Letters Patent, is—

The cup D provided with flange *d*, cover H, washer E, hub A, boxing B provided with the passage-way F, and axle C, combined substantially as and for the purpose described and shown.

HIRAM K. HAZLETT.

Witnesses:

CHAS. D. MOODY,
HENRY J. KING.