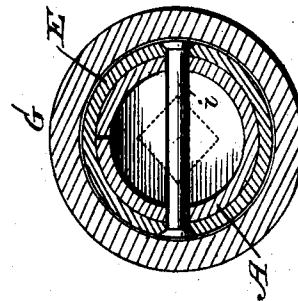
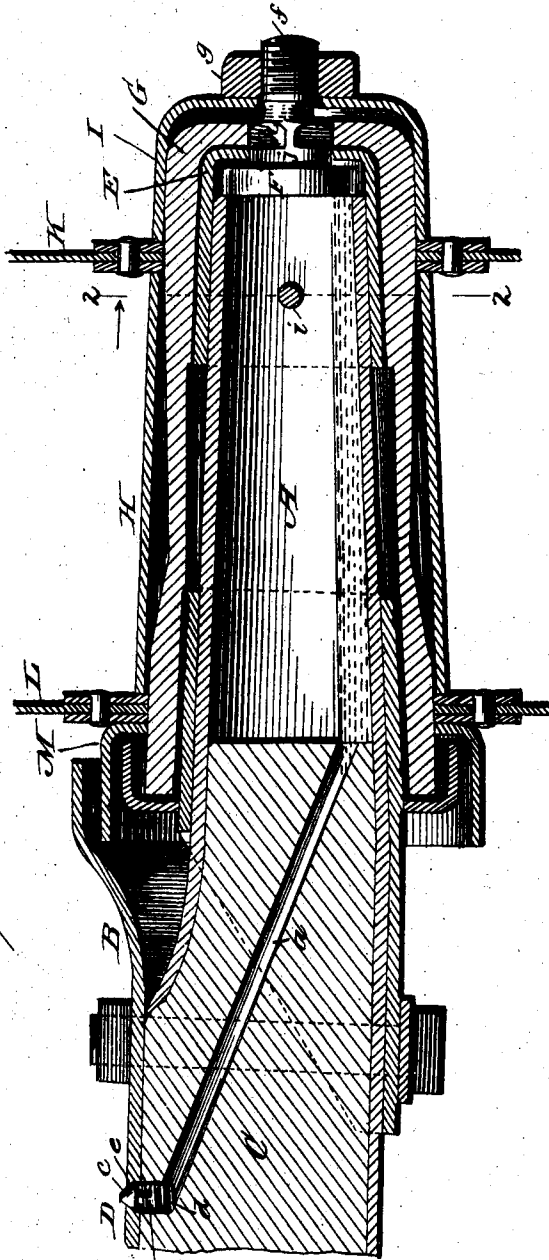


No. 834,885.

PATENTED NOV. 6, 1906.

M. R. BRUNER.
HUB ATTACHING DEVICE.
APPLICATION FILED FEB. 3, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

MARTIN R. BRUNER, OF WAPAKONETA, OHIO.

HUB-ATTACHING DEVICE.

No. 834,885.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed February 3, 1906. Serial No. 299,347.

To all whom it may concern:

Be it known that I, MARTIN R. BRUNER, a citizen of the United States, residing at Wapakoneta, in the county of Auglaize and State of Ohio, have invented certain new and useful Improvements in Hub-Attaching Devices; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has for its object to provide a simple and effective means for attaching the hubs to axles or the spindles thereof; and it consists in the details of construction substantially as shown in the drawings, and hereinafter described and claimed.

Figure 1 of the drawings is a longitudinal section of my invention; Fig. 2, a cross-section thereof, taken on line 2 2 of Fig. 1.

In the accompanying drawings, A designates the spindle of an axle, and B the axle-cap, and C a plug of wood or other suitable material having an inclined passage *a* to supply the oil to the oil-chamber of the spindle. At the upper end of this inclined passage *a* is a spring-actuated valve D, consisting of a stem *b*, with cone-shaped head *c*, which engages with a correspondingly-formed seat *e*, so that when depressed the valve will open and allow oil to pass into the passage, and when pressure is removed from the valve it will automatically close the valve-opening. A rivet or bolt *i* extends through the spindle A and a cup-shaped cap E to connect them together, as shown in Fig. 2 of the drawings.

A distributing-disk F is located between the outer end of the spindle A and a cap E, said distributing-disk having an annular shoulder *j*, which is of greater thickness than the thickness of the cap, so that the end of the cap cannot be clamped between the distributing-disk and the boxing G when the nut *g* on the screw is tightened. The distributing-disk F is provided with a flat-sided

extension *h*, which is integral therewith and engages a correspondingly-formed opening in the boxing G at the outer end thereof to compel the two to turn together.

The thimble is formed in two sections, as shown at H and I, and between said sections is held the disk K of the wheel, the opposite disk thereof being indicated at L, and between the section H and dust-flange M said disk is held.

The boxing G fits tightly against the disks K L of the wheel, as shown in Fig. 1 of the drawings, so that the boxing and its connections will revolve together, including the oil-distributing disk and tightening-nut.

When other forms of hubs or wheels are used, the outer section of the thimble may be changed in construction as circumstances would require, and it should be understood that many changes or modifications may be resorted to in the various details of construction without in any manner departing from the essential features of the invention.

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

A hub-attaching device consisting of a tubular spindle, an axle-cap extending over the end thereof, a boxing and a cup-shaped cap located between the spindle and boxing, a disk located between the ends of the spindle and cup-shaped cap, said disk having a circular shoulder of greater thickness than the thickness of the cap, and a flat-sided extension to the disk engaging a correspondingly-formed opening in the boxing, and a screw-shank extending from the disk and a tightening-nut thereon, substantially as and for the purpose set forth.

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

MARTIN R. BRUNER.

Witnesses:

M. W. BAYLISS,
JOHN L. FLETCHER.