

H. WILLIAMS.
Wheels for Vehicles.

No. 141,411.

Patented July 29, 1873.

Fig. 1.

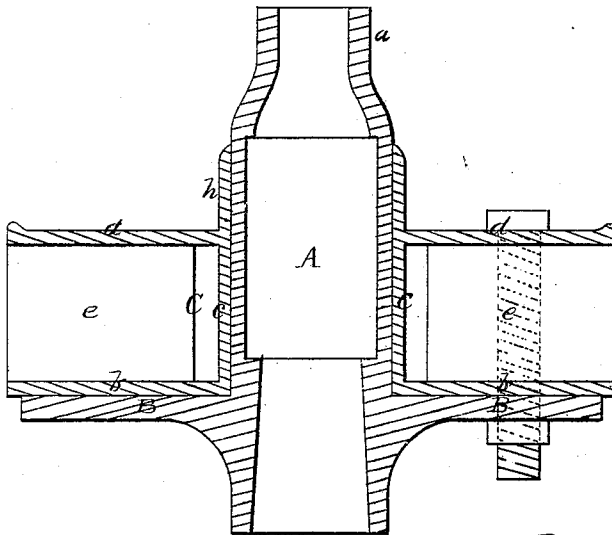


Fig. 2.

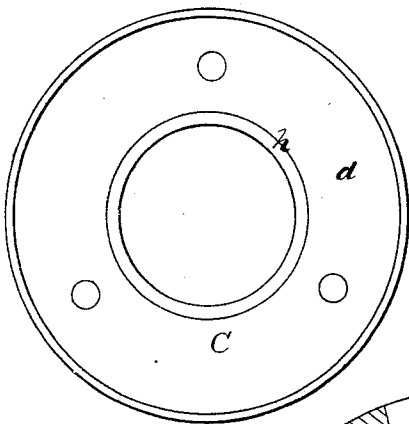


Fig. 3.

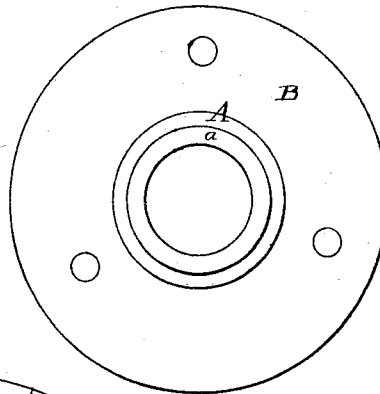
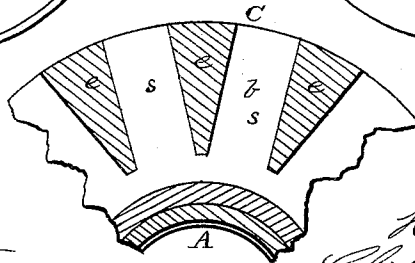


Fig. 4.



WITNESSES.

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HUGH WILLIAMS, OF APPLE RIVER, ILLINOIS.

IMPROVEMENT IN WHEELS FOR VEHICLES.

Specification forming part of Letters Patent No. 141,411, dated July 29, 1873; application filed March 29, 1873.

To all whom it may concern:

Be it known that I, HUGH WILLIAMS, of Apple River, in the county of Jo Daviess and State of Illinois, have invented a new and valuable Improvement in Cast Wheel-Hubs; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a sectional view of my wheel-hub. Figs. 2 and 3 are end views of the same. Fig. 4 is a sectional view.

This invention has relation to cast-iron wheel-hubs; and it consists in the construction and novel arrangement of the adjustable center cylinder with its flange, and the outer annulus designed to be placed over the said cylinder, and provided with sockets or recesses for the reception of the ends of the spokes. The object of this invention is to provide means whereby the wearing portion of the hub may be changed or replaced readily and conveniently.

In the accompanying drawings, the letter A indicates the hub-core cylinder or box. This portion of the hub is designed to be cylindrical, or slightly conical externally, terminating at its outer end in a curved conical extension, *a*, of smaller diameter than the main portion. B indicates a flange of considerable width which is cast around the inner end of the center cylinder A, and extends outward from the same in the direction of a plane

perpendicular to its axis. C designates the spoke ring or annulus. This consists of a central sleeve, *c*, from the inner end of which extends outward a disk-flange, *b*, between which and a parallel disk-flange, *d*, extending from the sleeve near its other end are arranged partitions *e*, forming sockets *s* for the ends of the spokes. The sleeve *c* extends a short distance at *h* beyond the flange *d*. D represent bolts or large rivets by means of which the annulus C is secured to the flange B of the center box A.

It is apparent that the center or core piece, when worn, can be readily replaced, the new center being readily bolted to the spoke-annulus, which is entire in itself, without going to the shop.

I am aware that a hub having a metallic annulus, one portion of which forms the box, back flange, and spoke-partitions, and the other portion the inner flange, is not new, and therefore I do not claim such invention; but

What I claim as new, and desire to secure by Letters Patent, is—

The hub-core cylinder A, constructed with the broad inner flange B and conical extension *a*, in combination with the annulus C, having the disk-flanges *b* and *d* and partitions *e*, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HUGH WILLIAMS.

Witnesses:

H. D. EARLEY,
WM. RIVENBURG.