(No Model.)

W. A. PENTECOST.

CARRIAGE WHEEL.

No. 588,081. Patented Aug. 10, 1897.

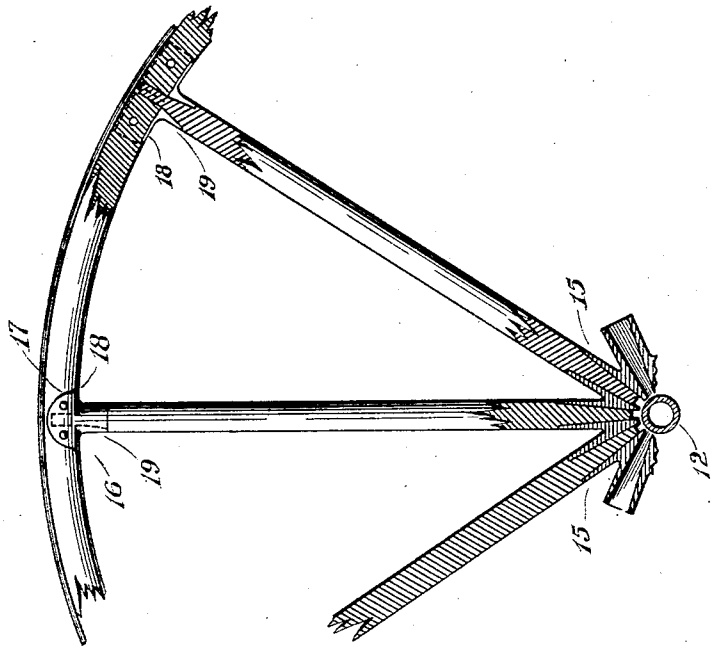


Fig. 2.

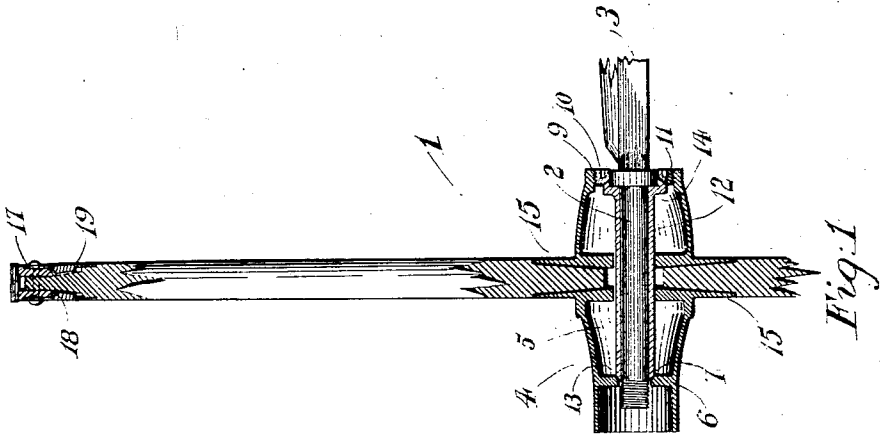


Fig. 1.

WITNESSES

F. L. Gray

J. G. Tabler

INVENTOR,

William A. Pentecost

by John Wedderburn

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM A. PENTECOST, OF WORCESTER, MASSACHUSETTS.

CARRIAGE-WHEEL.

SPECIFICATION forming part of Letters Patent No. 588,081, dated August 10, 1897.

Application filed November 21, 1896. Serial No. 612,973. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. PENTECOST, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Carriage-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 carriage-wheels; and its object is to provide a more simple and improved device of the kind described.

The invention consists of certain novel features of construction hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a cross-section of the hub portion of an improved wheel, and Fig. 2 a vertical section taken on the plane of the spoke center of my improved carriage-wheel.

My improved carriage-wheel 1 is adapted to rotate upon the spindle 2 of the carriage-axle 3. In the hub 4 is formed a chamber 5, and a perforated diaphragm 6, therein contained, is provided with a beveled inner portion 7. This diaphragm acts as a shoulder against which may be secured an axle-nut located on the spindle. A screw-threaded portion 9 is situated at the opposite end of the hub from the diaphragm 6. A threaded collar 10 is adapted to fit within the threaded portion 9 and is provided with a beveled inner portion 11. An axle-box 12, provided with a beveled end 13 and an expanded beveled portion 14, is held within the hub by the diaphragm 6 and the collar 10, the beveled portions centering said axle-box. Spoke-sockets 15 are formed about the central portion of the hub, and are preferably provided with tapering sides, as shown, so that when painted the joint between the socket and the spoke will be invisible, thus producing a neat finish. These sockets may be made as long as desired, and owing to their shape will produce no appearance of clumsiness in the hub. Metallic sockets 16 connect the spokes of the felly. These sockets are provided with ears 17, engaging the felly, and bolts or rivets to secure said sockets thereto, face-plates 18 to rest against the inner surface of the felly, and expanded portions 19 to better secure and embrace the spokes. It is obvious that this provides a cheap, strong, and improved carriage-wheel.

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

1. In a carriage-wheel, the combination with a hollow hub and a perforated diaphragm located therein at one end, of a screw-threaded cap fitted into the other end of the hub, an axle-box held in position between the diaphragm and the cap, and an axle-spindle journaled in said box.

2. In a carriage-wheel, the combination with a hollow hub having a perforated diaphragm therein and a threaded portion, of a threaded collar adapted to fit said threaded portion and having a beveled face, and a removable axle-box provided with beveled ends adapted to bear against the bevel portions of the diaphragm and collar and held in position by said diaphragm and collar.

3. In a carriage-wheel, the combination with a hollow hub having at one end an inner diaphragm provided with a beveled opening, of a threaded collar adapted to screw into the hub at its outer end and provided with a beveled face, a removable axle-box provided at one end with a beveled portion and at the other end with an expanded recessed beveled portion, said portions being adapted to bear against the beveled portions of the diaphragm and collar, an axle-spindle received in the axle-box and having a collar adapted to fit within the recess of the expanded portion of the same, and means for holding said spindle in the box.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM A. PENTECOST.

Witnesses:
FRANK H. WEBBER,
MARVIN F. AMES.