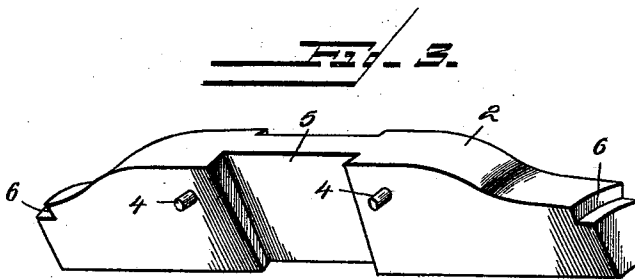
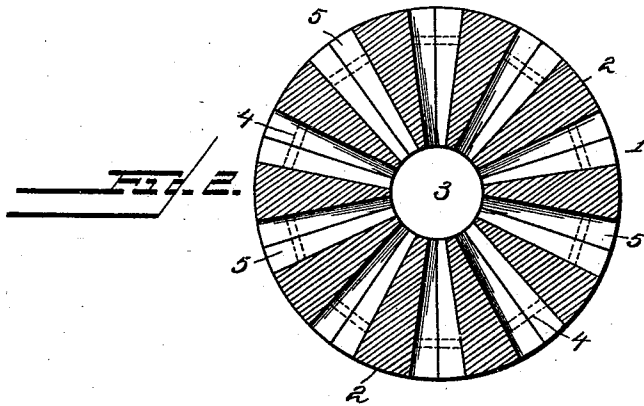
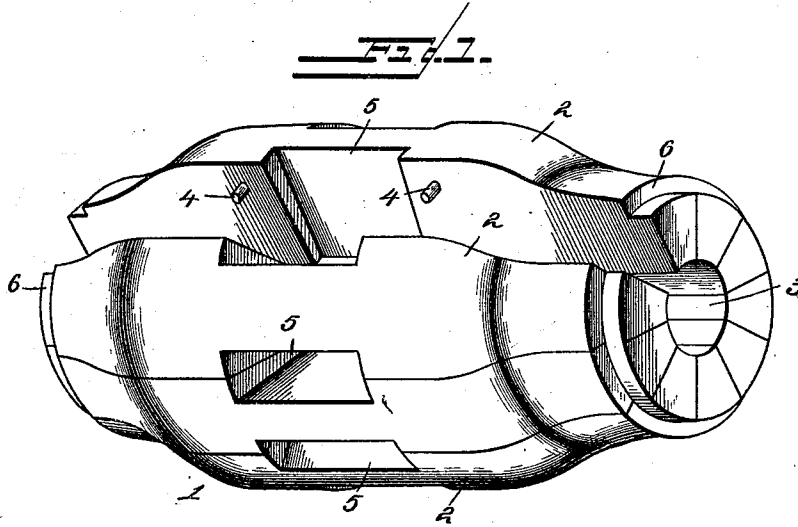


(No Model.)

R. F. A. MACKINNON.  
SECTIONAL VEHICLE HUB.

No. 551,828.

Patented Dec. 24, 1895.



Inventor

Witnesses

*J. W. Riley*  
*J. F. Riley*

By *His* Attorneys.

*Robert F. A. MacKinnon.*

*Cashmore & Co.*

# UNITED STATES PATENT OFFICE.

ROBERT F. A. MACKINNON, OF CENTRALIA, WISCONSIN.

## SECTIONAL VEHICLE-HUB.

SPECIFICATION forming part of Letters Patent No. 551,828, dated December 24, 1895.

Application filed June 8, 1895. Serial No. 552,150. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT F. A. MACKINNON, a subject of the Queen of Great Britain, residing at Centralia, in the county of Wood and State of Wisconsin, have invented a new and useful Sectional Vehicle-Hub, of which the following is a specification.

The invention relates to improvements in hubs.

The objects of the present invention are to improve the construction of wooden hubs, to lessen their cost of manufacture, and to increase their strength and durability.

Another object of the invention is to enable a hub to be readily assembled without liability of the parts splitting or separating at the spoke-socket.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a hub constructed in accordance with this invention, one of the sections being removed. Fig. 2 is a transverse sectional view. Fig. 3 is a detail perspective view of one of the sections of the hub.

Like numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates a hub, composed of a series of longitudinally-disposed sections 2, tapering in cross-section, and fitting together in an annular series, and forming an interior longitudinal opening for the reception of an axle-box of the ordinary construction. The sections 2 are constructed of wood, and as each section requires but a small amount of wood it will be apparent that there will be but little waste, and that smaller pieces of wood may be employed in the construction of hubs than can be when hubs are composed of only two sections. The longitudinally-disposed sections are connected by dowel-pins 4, and are provided at their opposite faces with centrally-arranged recesses 5, the recesses of one hub fitting or registering with the recesses of the adjacent longitudinal sections and forming spoke-sockets for the reception of the inner ends of the ordinary construction of wooden spokes; or the recesses for spokes may be so arranged that they will be in the center of a section. The dowel-pins are preferably ar-

ranged adjacent to the centers of the sections at opposite ends of the recesses 5, and they prevent the sections from moving longitudinally on each other.

The sections are readily assembled, and are connected by suitable end bands, and are provided with end notches 6, forming annular recesses or grooves for the reception of suitable end bands.

In assembling the sections, their side faces are coated with a suitable cement or adhesive material, and in drying there is no liability of the sections of the hubs splitting or separating, and the sockets are unimpaired.

It will be seen that the hub is exceedingly simple and inexpensive in construction, that the parts are readily assembled, and that it possesses strength and durability. It will also be seen that in the process of drying the hub or its sections will not crack and injure the spoke-sockets.

Changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

What I claim is—

A hub, comprising an annular series of longitudinal sections, sector-shaped in cross section, extending the entire length of the hub and constituting the same entirely and forming a longitudinal bore or opening for the reception of an axle box and designed to be connected by the ordinary end bands, said sections being provided at opposite sides of their centers with similar substantially rectangular recesses constituting one half of a spoke socket and registering with each other when the sections are assembled to form the spoke sockets and adapted to receive the inner ends of wooden spokes of the ordinary construction, and the transverse dowel pins located at opposite sides of the spoke sockets and locking the sections against longitudinal movement on each other, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ROBERT F. A. MACKINNON.

Witnesses:

J. E. SCHNABEL,  
THOS. A. LOVE.