SAMUEL MITCHELL.

Improvement in Spoke-Sockets for Carriage-Wheels.

No. 127,501. Patented June 4, 1872.

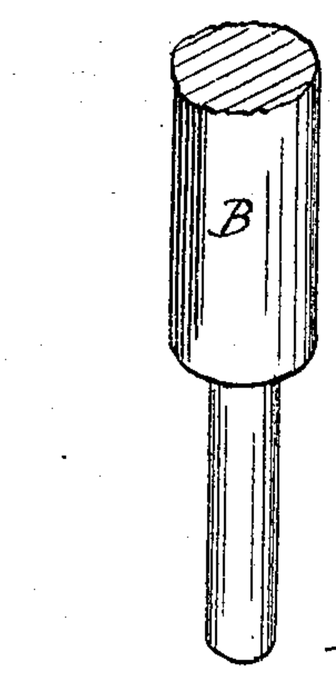
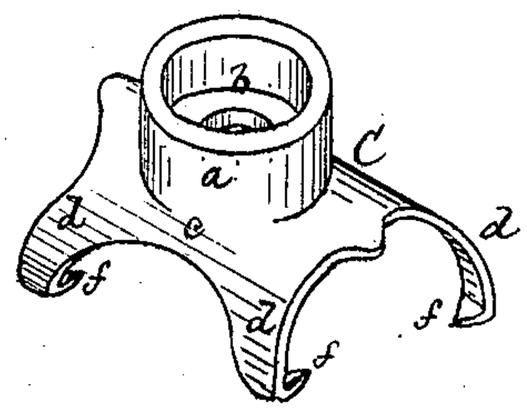


Fig: 1.



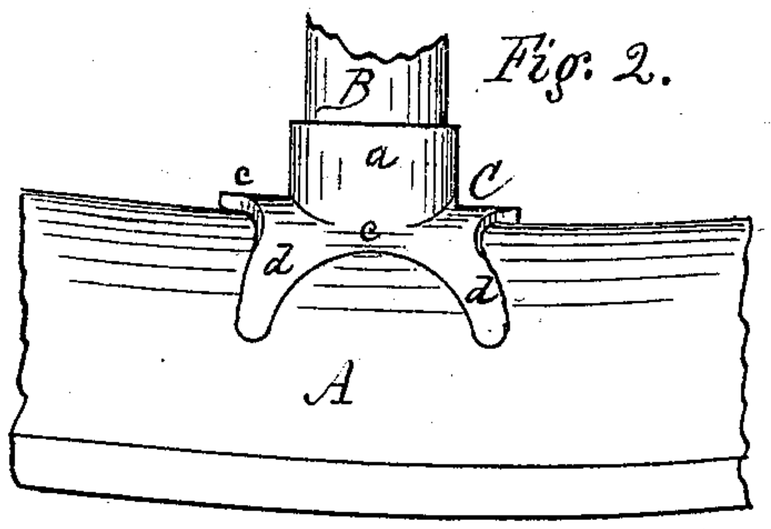


Fig: 2.

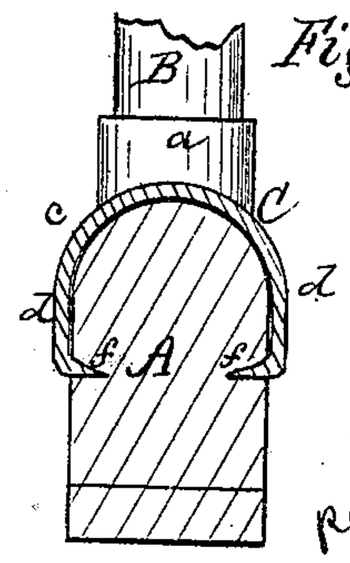


Fig: 3.

Witnesses.
Archie Baird
Fredk. T. Hadlock.

Samuel Mitchell
Inventor.
per Burke, Fraser & Hyde,
Attorneys.

127,501

UNITED STATES PATENT OFFICE.

SAMUEL MITCHELL, OF LIMA, NEW YORK, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO CONRAD DEAL, OF SAME PLACE.

IMPROVEMENT IN SPOKE-SOCKETS FOR CARRIAGE-WHEELS.

Specification forming part of Letters Patent No. 127,501, dated June 4, 1872.

Specification describing a certain Improvement in Spoke Sockets and Clips, invented by SAMUEL MITCHELL, of Lima, in the county of Livingston and State of New York.

My invention consists of a socket for connecting spokes with the felly of a wheel, constructed with double or branching clips on each side, provided with inwardly-projecting spurs for driving and holding in the wood without the use of rivets or screws, as hereinafter described.

In the drawing, Figure 1 is a perspective view of my improved device and the end of a spoke for fitting therein; Fig. 2, an elevation, showing the parts applied to the rim of a wheel; Fig. 3, a cross-section of Fig. 2.

A is the felly, B a spoke, and C the combined socket and clip. The latter is made of malleable or wrought iron, or any other metal which has the requisite elasticity to allow the clip to be sprung over the felly or rim and its spurs to be driven into the wood. It is constructed with a socket, *a*, with an interior shoulder, *b*, to receive the shoulder of the spoke. Outside this socket is the bearing *c*, which fits the felly, and two branching clips, *d d*, on each side, which extend down the sides of the felly. The ends of these clips are formed with inwardly-projecting spurs or points *f f*, which are driven into the wood, as indicated in Fig. 3. The clips are simply sprung over the felly, the spoke applied, and compression, either by a machine or by hammering, is brought to bear upon the clips, which forces them into the wood on each side of the tenon of the spokes.

The object of this invention is to obviate the use of rivets or screws which have been made to pass from side to side through the wood, uniting the sides of the clip. These rivets or screws are very objectionable, for the reason that the wood soon splits from one to the other by the reason of the strain and leverage of the rivets. They are also difficult to apply, and are unsightly to the eye. By the use of the points or spurs, as above described, a secure hold is obtained, and as they do not pass through the wood there is no danger of splitting. This arrangement also enables me to diminish the size of the hole through the felly, and it prevents the wheel from becoming "felly bound."

What I claim, and desire to secure by Letters Patent as an improved article of manufacture, is—

The combined socket and clip C, with the branches *d d* on each side, provided with spurs or points *f f* for driving into the wood, as herein described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

SAMUEL MITCHELL.

Witnesses:

J. A. STOAX,

HENRY PARKER.