(No Model.)

S. S. SHEAFFER.

SPOKE SOCKET.

No. 553,766. Patented Jan. 28, 1896.

Fig. 1.

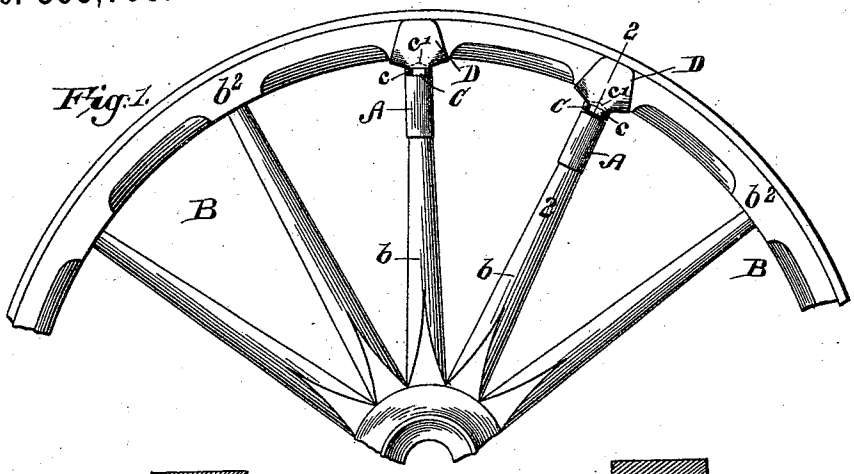


Fig. 2.

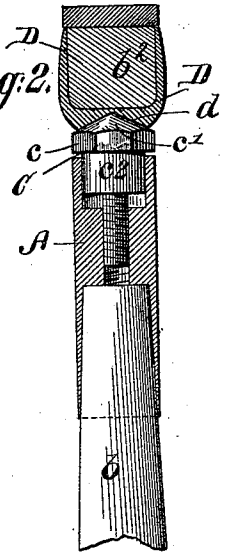


Fig. 3.

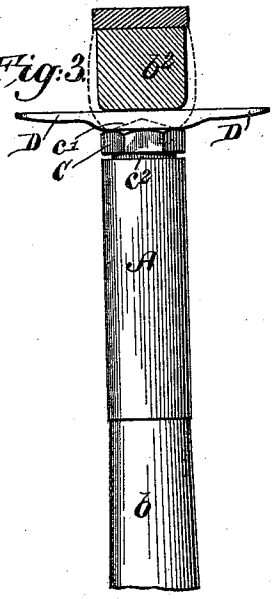


Fig. 4.

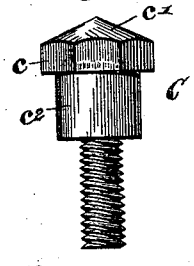
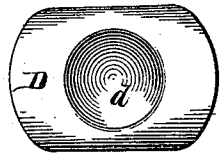


Fig. 5.



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SAMUEL S. SHEAFFER, OF VEEDERSBURG, INDIANA.

SPOKE-SOCKET.

SPECIFICATION forming part of Letters Patent No. 553,766, dated January 28, 1896.

Application filed June 29, 1895. Serial No. 554,468. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL S. SHEAFFER, of Veedersburg, in the county of Fountain and State of Indiana, have invented a new and useful Improvement in Spoke Adjusters and Clips, of which the following is a specification.

The object of my invention is to provide an improved spoke adjuster and clip, by means of which the tires of a wheel can be readily and quickly tightened.

A further object of the invention is to provide a device of the character indicated which is very simple and inexpensive, and can be quickly and easily applied.

The invention consists of the particular construction and arrangement of parts, as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference refer to corresponding parts in all the views.

Figure 1 is a side elevation of a portion of a wheel having my improvement applied. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a side elevation of the improvement showing the clip in full lines before it is bent to form and by dotted lines after it has been bent, the felly and tire being in section. Fig. 4 is a side elevation of the adjusting-bolt, and Fig. 5 is an inverted plan view of the clip.

A is a socket into which the ends of the spokes *b* of the wheel B fit. In the upper end of the socket is the bolt C, which is provided with the head *c*, having the conical upper surface *c'*. The bolt C is preferably formed with the enlarged portion c^2 below its head, which fits in the upper end of the socket, and the screw-threaded portion of the bolt screws into a threaded bore of the said socket, so that by turning the bolt it can be moved in or out for a purpose hereinafter explained.

The conical upper surface of the bolt fits into a socket *d* of the clip D, which receives and fits upon the felly b^3 of the wheel. The clip D can be formed flat, as shown in Fig. 3, and then bent into form when being applied, so that it will clasp the sides of the felly and fit it snugly.

By the above-described construction it will be seen that should the tire become loose it can be readily tightened by applying a wrench to the head *c* of the bolt C and turning it so that the bolt will be moved outward, when the felly will be forced outward and the tire tightened.

The improvement may be applied to all the spokes of a wheel or only to two or more as desired. When the device is applied to all the spokes, the felly will be left plain—that is, without the enlargements where the spokes usually enter—and the spokes not entering the felly it will not be weakened thereby nor rendered liable to crack.

The device can be applied to wheels already made or to old ones whose tires have become loose, by simply cutting off the end of one or more spokes and applying the device as hereinbefore described.

By means of the device also a new spoke can be put in the wheel without removing the tire, and by an inexperienced person.

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

1. A device of the character described, comprising a socket adapted to fit upon a spoke, a bolt in the upper end of the socket and having a conical upper end, and a clip adapted to receive and fit upon the felly and provided with a socket to receive the conical end of the bolt, substantially as described.

2. A device of the character described, consisting of a socket adapted to receive the end of a spoke, a bolt screwing into the upper end of the socket and provided with a head having a conical upper surface, and with an enlargement below the head, and a clip adapted to fit upon a felly and provided with a socket to receive the conical end of the head of the bolt, substantially as herein shown and described.

SAMUEL S. SHEAFFER.

Witnesses:
SAMUEL J. LUDLOW,
FRANCIS E. MCLEAN.