

No. 682,432.

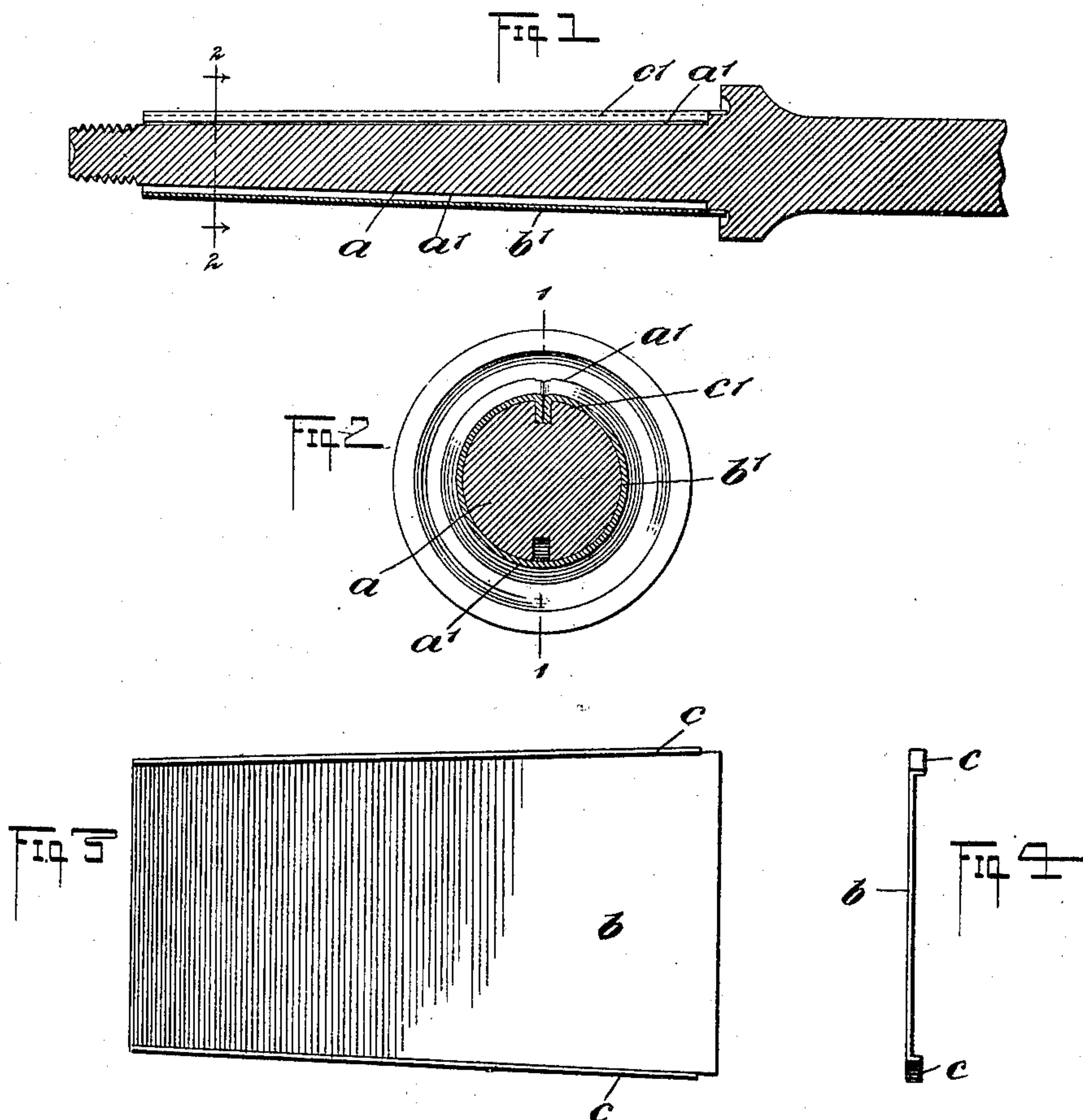
Patented Sept. 10, 1901.

F. A. SCHULZ.

AXLE SKEIN.

(Application filed Jan. 22, 1901.)

(No Model.)



WITNESSES:

J. B. Owens.

INVENTOR

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BY *Mumf.*

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UNITED STATES PATENT OFFICE.

FRITZ A. SCHULZ, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO
ALFRED J. KOETSCHAU, OF SAME PLACE.

AXLE-SKEIN.

SPECIFICATION forming part of Letters Patent No. 682,432, dated September 10, 1901.

Application filed January 22, 1901. Serial No. 44,257. (No model.)

To all whom it may concern:

Be it known that I, FRITZ A. SCHULZ, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved Axle-Skein, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide an axle-skein which may be quickly and securely placed in position and which in taking the wear of the wheel will save the journal. Should the skein become worn on one side, it may be reversed, and if fully worn it may be removed and another substituted at slight cost.

This specification is a specific description of one form of the invention, while the claims define the actual scope thereof.

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

Figure 1 is a section on the line 1 1 of Fig. 2. Fig. 2 is a section on the line 2 2 of Fig. 1. Fig. 3 is a plan view of the blank from which the skein is formed, and Fig. 4 is an edge view of the same.

The journal *a* is formed with longitudinal grooves *a'* in its top and bottom, the side walls of the grooves being plane.

The skein is formed from a plate of soft steel, (indicated at *b* in Figs. 3 and 4.) This plate is essentially trapezoidal in form and has side flanges formed thereon, such flanges extending not quite to the wide end of the plate. This plate is rolled into tubular form, taking the shape shown at *b'* in Figs. 1 and 2. After the plate is rolled it is suitably tempered to give it spring properties and to harden it. The tube *b'* is now sprung over the journal and the flanges *c'* projected into one of the grooves *a'*, whereby the skein is held in place. The tube *b'* is arranged to fit snugly on the journal, and it is held in place by the spring properties of the material forming the tube. The wheel may now be placed in position, and the wear will be taken by the skein. Further, the groove *a'*,

which receives the ribs or flanges *c'*, will serve the additional purpose of a grease-duct. The other groove *a'* will be covered by the skein. Should the bottom of the skein become worn, the skein may be taken off and turned half around from the position shown in the drawings, thus placing the flange *c'* in the bottom groove *a'*. The wear of the wheel will now be borne by the other side of the skein.

This device is very simple in construction and may be made and sold cheaply, thus enabling persons to apply new ones without much expense.

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

1. An axle-skein, formed of a split tube with flanges extending inward from the longitudinal edges of the tube.

2. The combination of an axle, and a skein in the form of a split tube, secured to the axle at the longitudinal edges of the skein.

3. The combination, with an axle having a longitudinal groove therein, of a skein in the form of a split tube, and flanges extending along the longitudinal edges of the tube and removably fitted into the groove.

4. An axle-skein, formed of a split tube of spring metal serving by its spring properties closely to embrace the axle, said tube having an inwardly-projecting portion engaged with the axle, whereby to secure the skein in place.

5. The combination with an axle having a longitudinal groove therein, of an axle-skein formed of a split tube of spring metal arranged snugly to embrace the axle and provided with inturned flanges at its longitudinal edges, the groove of the axle extending throughout the length of the said skein and the flanges of the skein fitting in said groove, for the purpose specified.

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

FRITZ A. SCHULZ.

Witnesses:

A. J. KOETSCHAU,
W. GESKEWICH.