

L. MAYHEW.

Axle Skein.

No. 113,681.

Patented April 11, 1871.

Fig: 1.

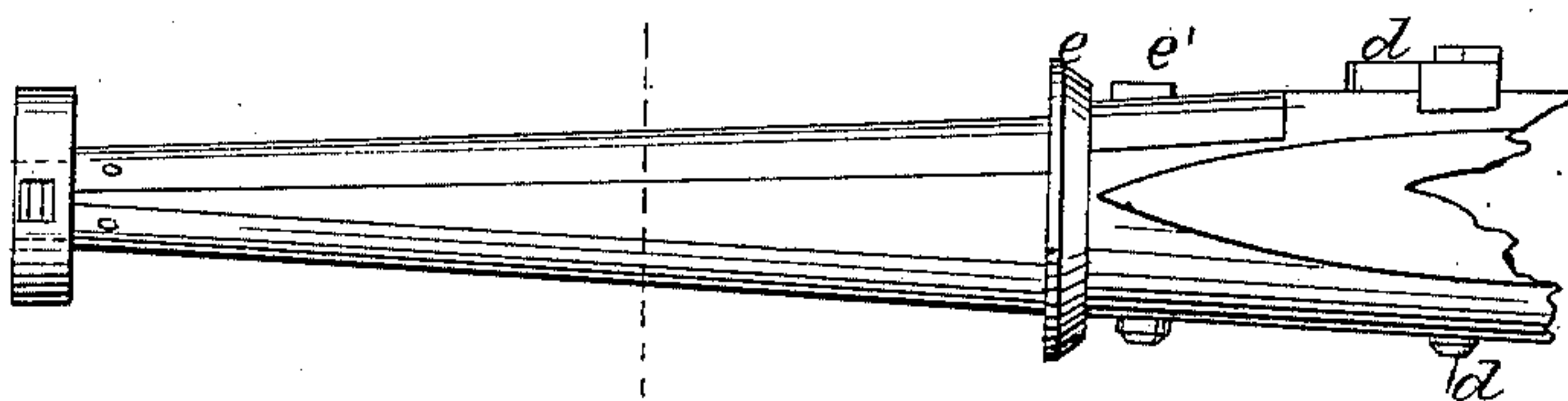


Fig: 2.

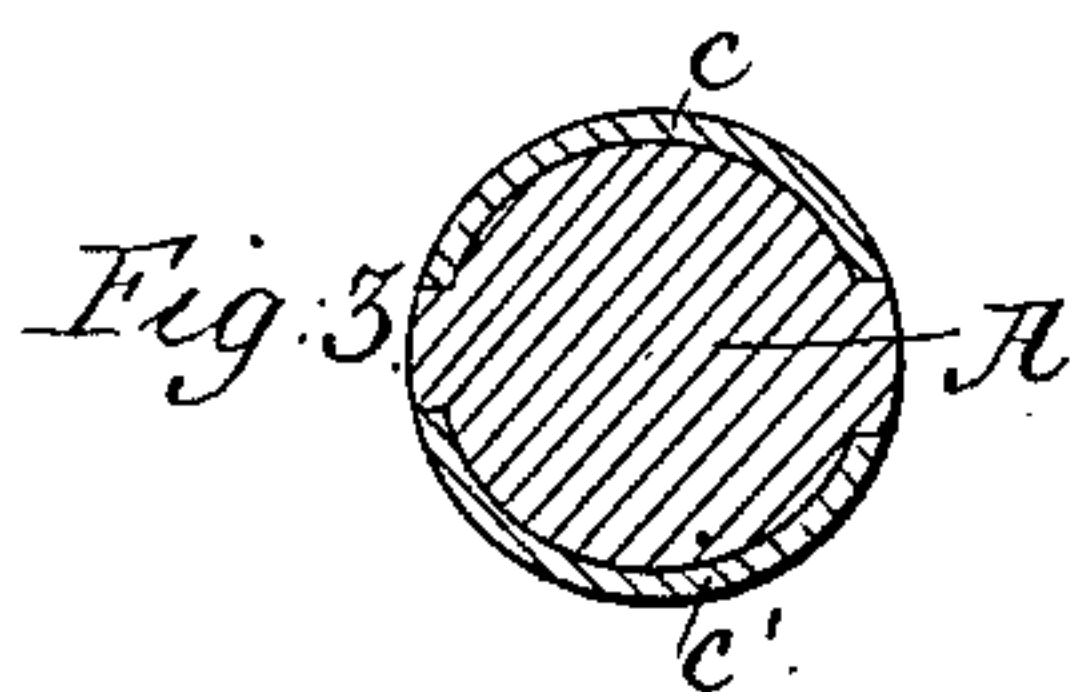
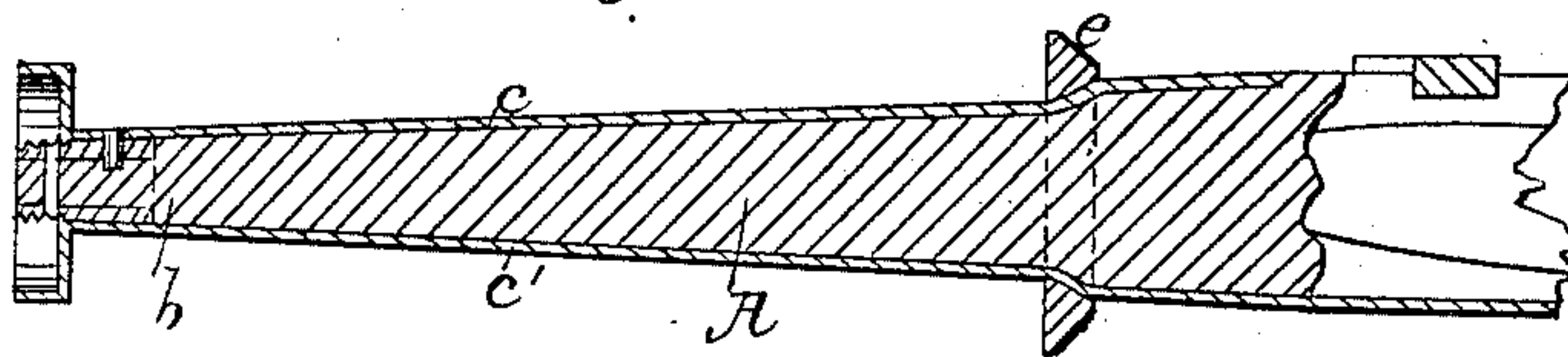
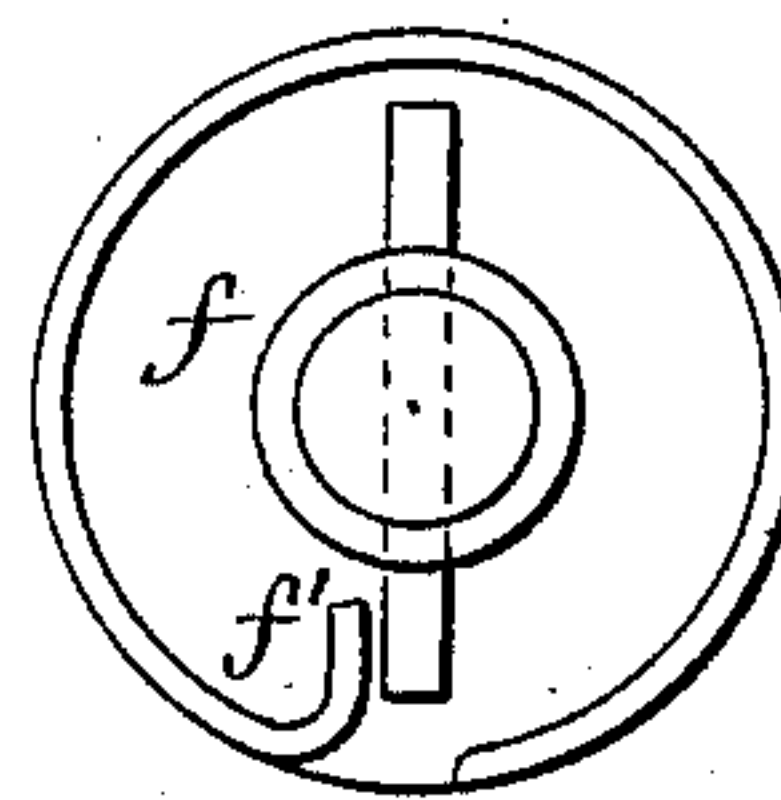


Fig: 4.



Witnesses:

Charles Kenyon
Villette Anderson

Inventor:

Lorenzo Mayhew
Chipman & Son
Attys.

United States Patent Office.

LORENZO MAYHEW, OF GREENFIELD, NEW YORK.

Letters Patent No. 113,681, dated April 11, 1871.

IMPROVEMENT IN AXLE-SKEINS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, LORENZO MAYHEW, of Greenfield, in the county of Saratoga and State of New York, have invented a new and valuable Improvement in Axle-Skein; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a side view of my skein.

Figure 2 is a central vertical longitudinal section.

Figures 3 and 4 are details.

This invention relates to improvements in thimble-skins for wagon-axles, and the means of fastening them; also to an improved washer for holding in place and protecting the linch-pin to be used therewith, all of which is hereinafter described.

A represents the wooden portion of an axle-tree, upon which is placed a ring, *b*, having a screw cut upon its outer end, and being firmly riveted to the wooden axle-tree A.

c and *c'* represent strips of metal formed to fit the shape of the wooden axle-tree, as shown, the under one of which extends along on the under side of the axle-tree far enough to receive the bolt *d*, that also fastens the hound *d'*.

The ring or washer *e* is in the form shown, and is slipped over the spindle and in place against the shoulder formed thereon, as a stop for the hub.

The strips *c* and *c'* are firmly riveted to the ring *b* at their small ends, and fastened at the other end of the short strip *c* by a rivet or bolt, *e'*.

On the end of the ring *b* is placed a flanged ring, *f*, in the form shown, having a portion of the flange *f'* cut and turned down so as to admit the linch-pin to be

put in place, and to prevent more than one revolution of the ring. The escape and wear of the pin is prevented by this simple device.

The thread on the ring *b* is designed for a nut for the purpose of holding the wheel in place, but when a linch-pin and the flanged ring are used the thread is not required, but a hole for the pin is made.

The ring *b* and the additional bolt *d* secure the strips *c* and *c'* firmly, and the long strip *c'* gives additional strength to the axle-tree.

The strips forming the skein and the ring *b* may be cast in one piece of steel.

I claim as my invention—

1. The method of fastening the small ends of the strips *c* and *c'* to the axle-tree by means of the ring *b* and rivets, as shown and described.

2. The skein, consisting of the strips *c* and *c'* and the ring *b*, cast in one piece, of steel, substantially as and for the purposes set forth, the lower strip being longer than the upper one.

3. The flanged ring *f*, constructed as shown, in combination with an axle-tree and a linch-pin, substantially as and for the purposes set forth.

4. The combination of the strips *c* and *c'*, the lower one being longer than the upper, the ring *b* with hole for a linch-pin, the flanged ring *f* with guard *f'*, and axle A, all constructed and arranged substantially as and for the purposes set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

LORENZO MAYHEW.

Witnesses:

P. F. ALLEN,

J. S. B. SCOTT.