

No. 822,831.

PATENTED JUNE 5, 1906.

E. S. DODGE.

HARNESS.

APPLICATION FILED MAY 28, 1903.

Fig. 1.

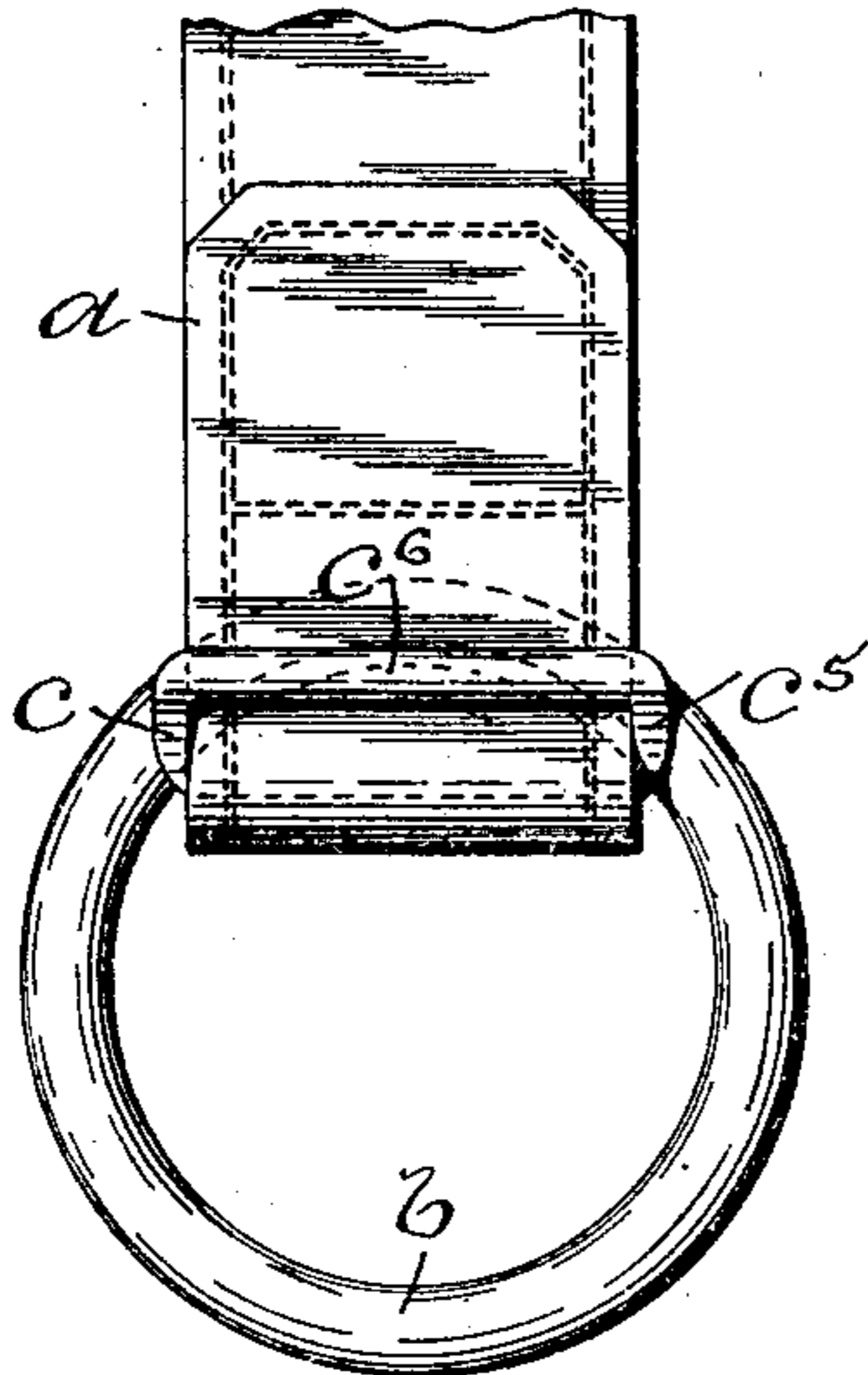


Fig. 2.

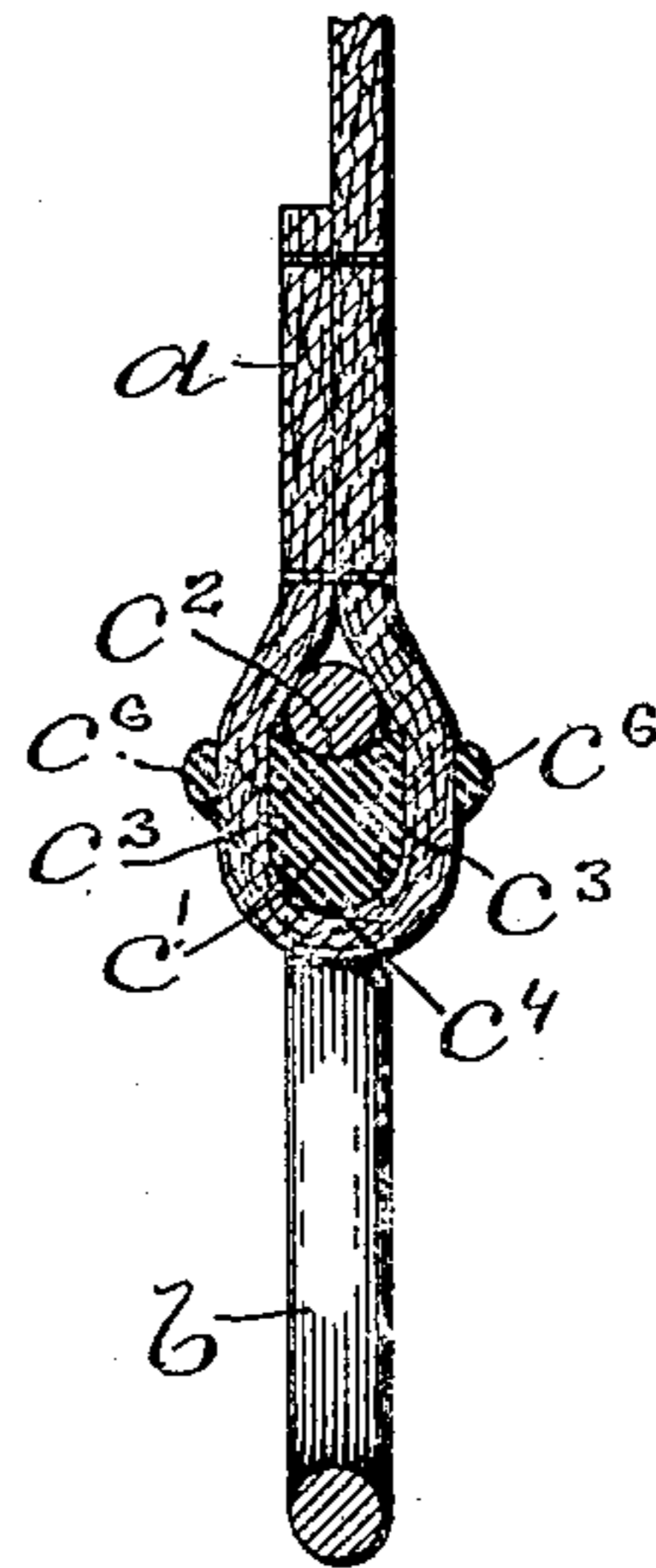


Fig. 3.

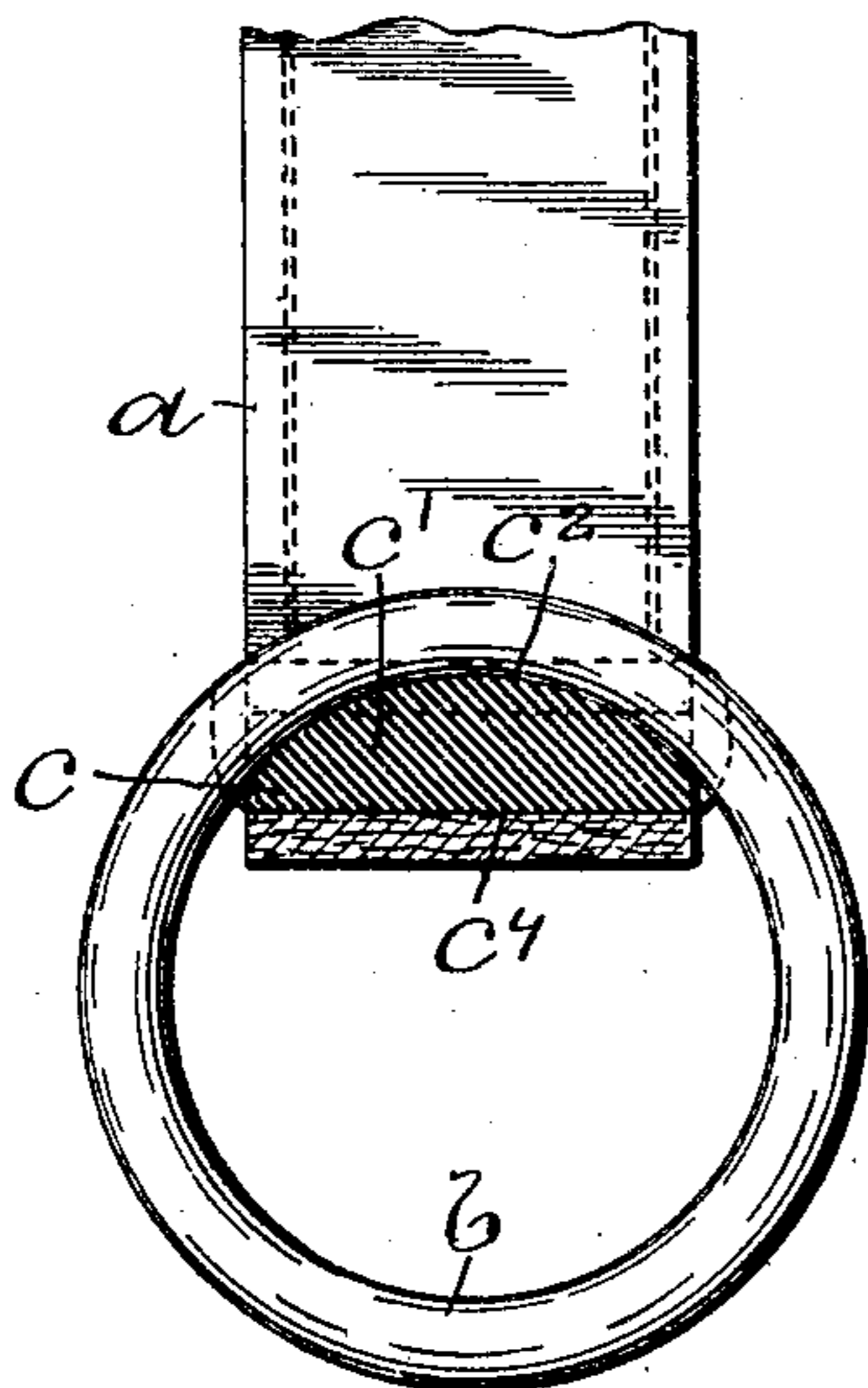


Fig. 4.

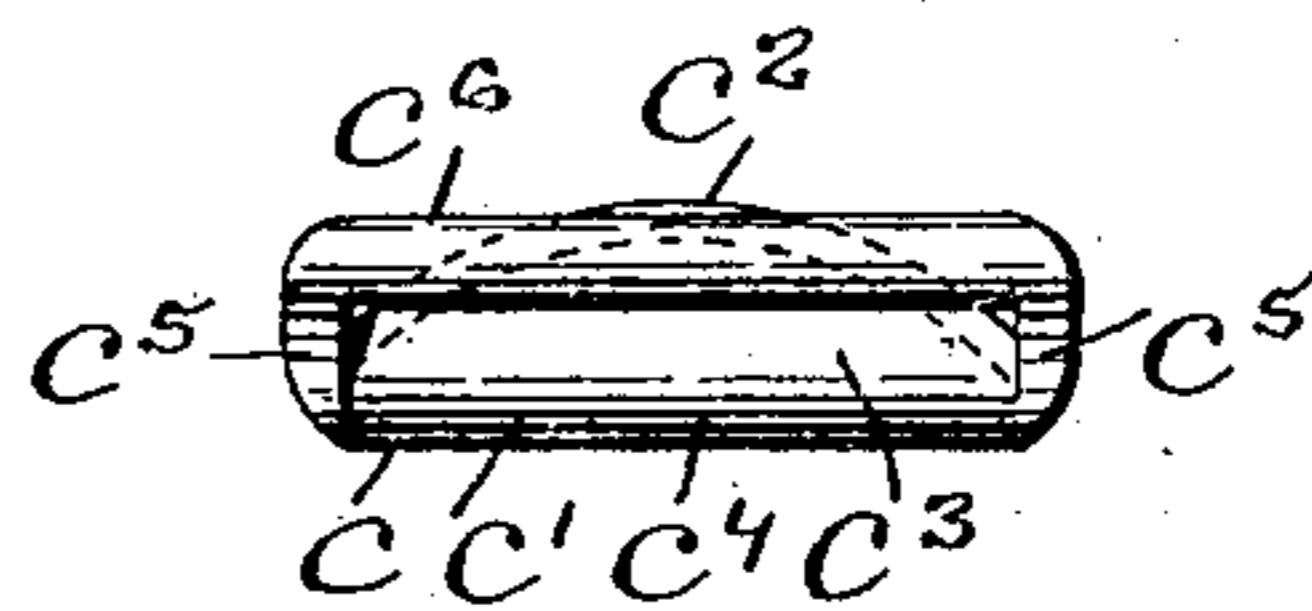
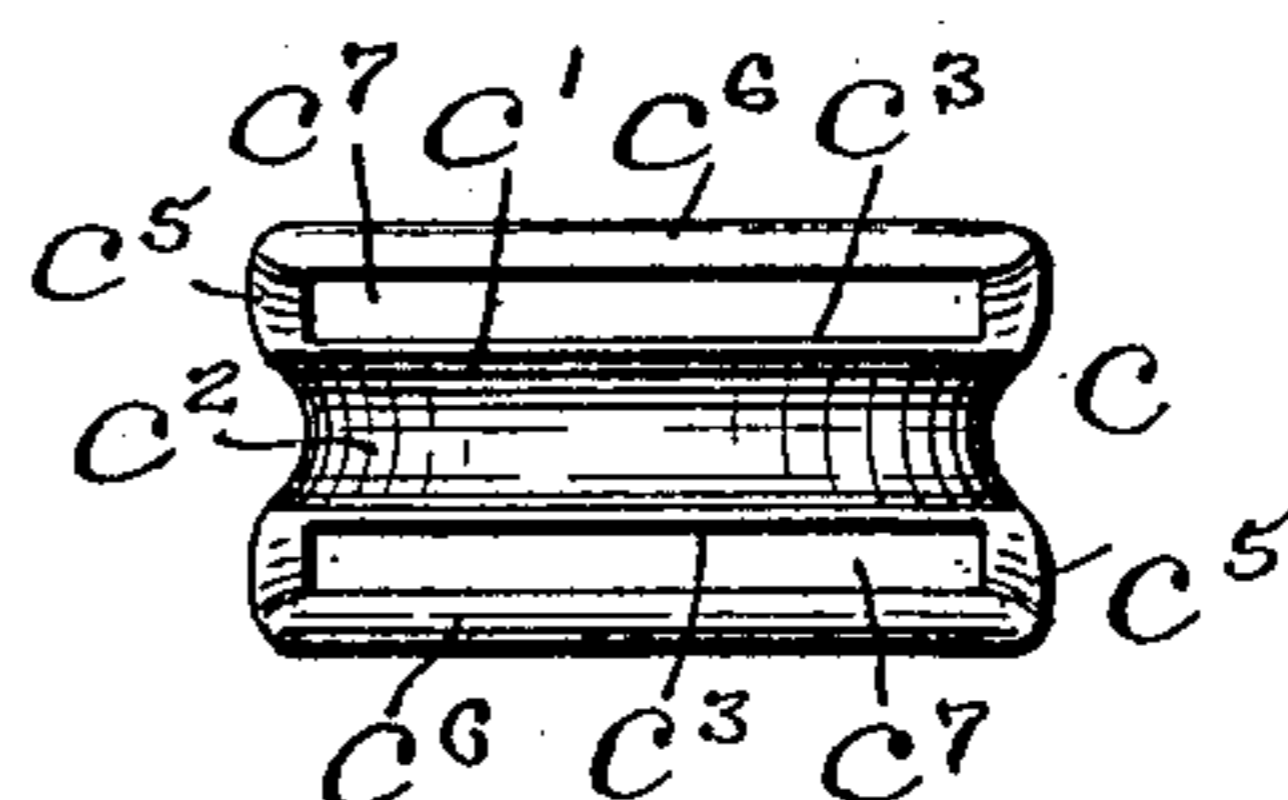


Fig. 5.



WITNESSES:

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HARNESS.

No. 822,831.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed May 28, 1903. Serial No. 159,094.

To all whom it may concern:

Be it known that I, EZRA S. DODGE, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Harnesses, of which the following is a specification.

This invention has reference to an improvement in the construction of harnesses, and more particularly to an improvement in securing metal rings in the bridle, traces, breeching, or other parts of the harnesses to prevent wear on the same.

In harnesses as heretofore constructed the metal rings were secured in loops formed by the leather straps of the harness. In this construction the metal rings would soon wear out or destroy the leather and ruin the harness.

The object of my invention is to prevent this wear and breaking of the harness by inserting metal wearing-pieces between the rings and the leather straps of the harness.

My invention consists in the peculiar and novel construction of a metal wearing-piece shaped to conform with the ring and the loop end of the harness-strap and held in position by the strap passing through elongated slots in the wearing-piece to prevent wear on the leather strap by the metal ring, as will be more fully set forth hereinafter.

Figure 1 is a side view of the loop end of a leather strap forming part of a harness and showing my improved construction, whereby the metal ring is prevented from wearing on the strap. Fig. 2 is a sectional view taken lengthwise through Fig. 1, showing the metal wearing-piece in the loop of the strap and the metal ring bearing on the wearing-piece. Fig. 3 is a sectional side view taken through the loop end of the strap and the wearing-piece. Fig. 4 is a side view of the wearing-piece removed from the strap; and Fig. 5 is a plan view of the wearing-piece, showing the semicircular grooved center block for the ring and the outside elongated slots for the strap.

In the drawings, *a* represents the loop end of a leather strap forming part of a harness, *b* a metal harness-ring, and *c* the metal wearing-piece inserted in the loop end between the ring and the strap. The metal wearing-piece *c* consists of the center block *c'*, having the semicircular grooved upper edge *c''*, shaped to conform with the ring *b*, the flat sides *c³ c³*, the half-round lower edge *c⁴*, and

the outwardly-extending arms *c⁵ c⁵*, supporting the cross-bars *c⁶ c⁶*, forming with the sides *c³ c³* the elongated slots *c⁷ c⁷* for the strap all formed in one piece of metal, preferably of brass or bronze.

In securing the wearing-piece to the strap the end of the strap is carried downward through one of the slots *c⁷* in the wearing-piece and under the lower edge *c⁴*, then upward through the opposite slot *c⁷*. The ring *b* is now placed in position on the wearing-piece and secured in the loop formed by securing the end and body of the strap together above the ring by stitching, as shown in the drawings.

By the use of the wearing-pieces all wear on the leather by the metal rings used in the harness is eliminated and a more perfect and durable harness is constructed than has heretofore been done.

It is evident that the wearing-piece could be secured in the loop of the strap by a lip on each end of the wearing-piece or similar means to prevent endwise movement of the wearing-piece in the loop without materially affecting the spirit of my invention.

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

1. A device of the character described, comprising a center block provided with a lower, longitudinal, straight edge, said edge beveled or curved transversely throughout its entire length, said block provided with an upper, longitudinally-extending semicircular edge provided with a groove, arms extending laterally from the ends of said block, straight, cross-bars positioned upon the sides of said block, each bar integral with each two of said arms, said block provided with flat, parallel sides, each bar provided with an inner, flat vertical face, the inner faces of said bars parallel with the flat, parallel sides of said block, and said cross-bars, arms, and block constituting guides or keepers for snugly retaining the looped portion of a strap against said block when the same is positioned thereon.

2. A device of the character described, comprising a center block, provided with a lower longitudinally-straight edge, said edge curved transversely, said block provided with parallel, straight sides, a longitudinally-extending groove formed in the upper edge of said block, outwardly-extending arms secured at each end of said block, said arms of less length than the greatest width of said

block, parallel cross-bars positioned upon opposite sides of said block and integral with said arms, each bar positioned contiguous to the side of and below the highest point of
5 said block, each bar provided with a straight, vertical, inner surface or face, said face parallel with the contiguous side of said block, and said cross-bars, arms, and block, constituting guides or keepers for snugly retaining the
10 looped portion of a strap against the block when the strap is positioned upon said block.

3. A device of the character described, comprising a block provided with parallel, flat sides, arms extending from said blocks,

bars positioned upon opposite sides of said 15 block and supported upon said arms, each bar provided with an inner, flat face, the faces of said bars parallel with the flat sides of said block, and said block, arms and bars, constituting guides or keepers for snugly se- 20 curing a strap against said block.

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

EZRA S. DODGE.

Witnesses:

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