

(No Model.)

J. H. FANNING.

CHAIN BAR.

No. 413,439.

Patented Oct. 22, 1889.

Fig. 1.

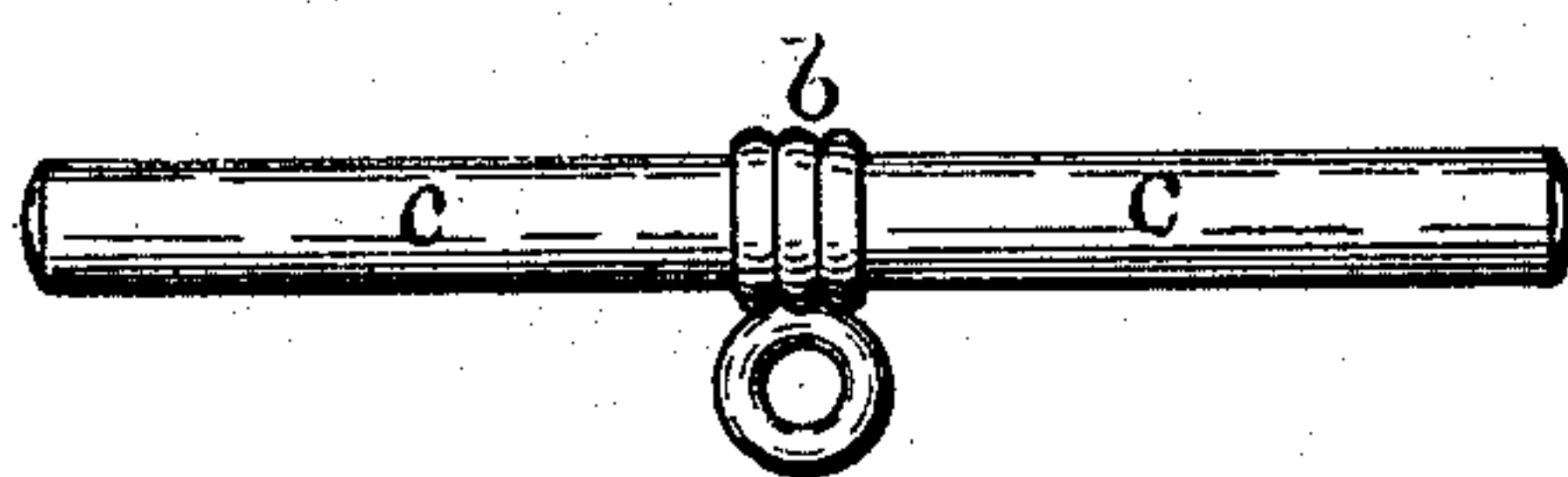


Fig. 2.

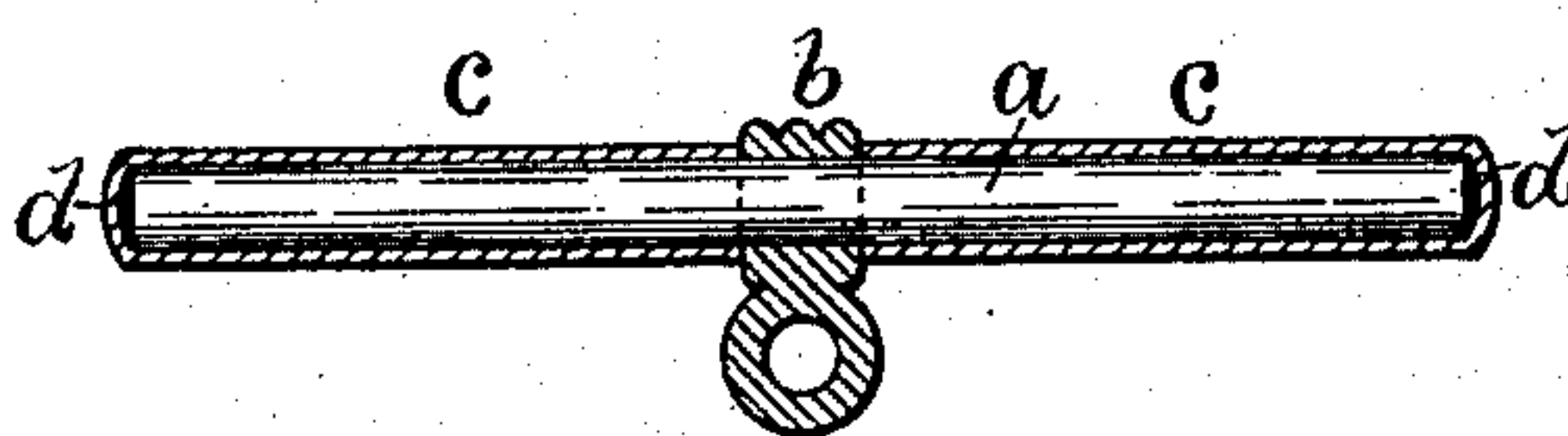
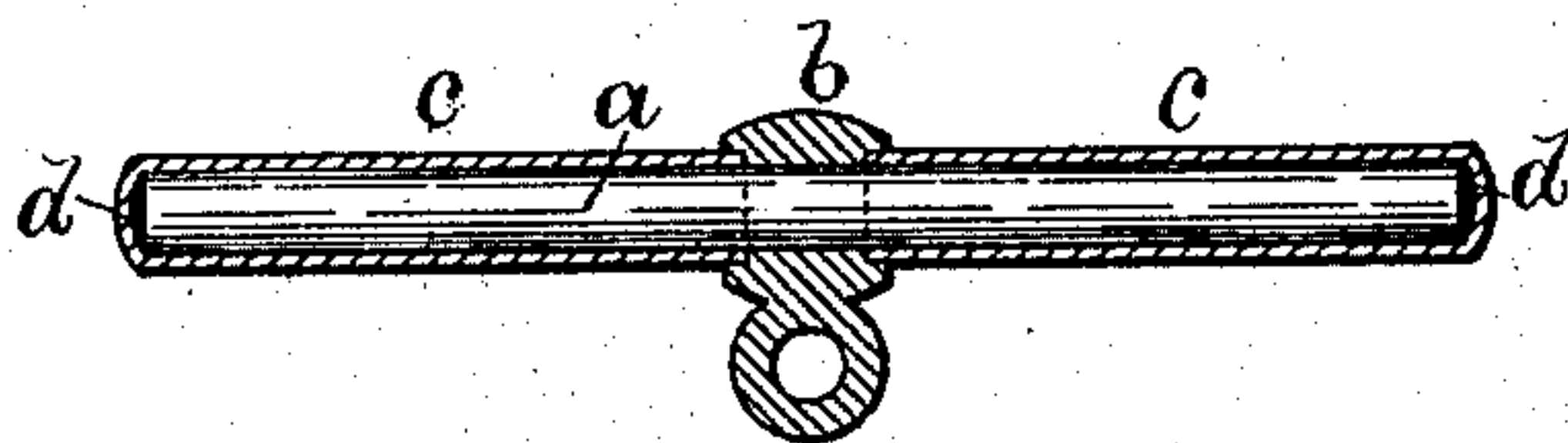


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH H. FANNING, OF PROVIDENCE, RHODE ISLAND.

CHAIN-BAR.

SPECIFICATION forming part of Letters Patent No. 413,439, dated October 22, 1889.

Application filed March 20, 1889. Serial No. 304,031. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. FANNING, of Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Ornamental Chain-Bars, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 This invention has reference to an improvement in the construction of the bars connected with watch-chains, and used usually to secure one end of the watch-chain by inserting the bar through a button-hole.

15 The object of the invention is to simplify the construction of chain-bars and to so cover and protect the inferior metal and the solder used in making the bar that no discoloration will be produced in use or in the usual acid test.

20 The invention consists in the peculiar and novel construction by which two sleeves are secured to the body of the bar so as to cover the same and hold the connecting-link or swivel in position, as will be more fully set forth hereinafter.

Figure 1 is a view of my improved chain-bar. Fig. 2 is a sectional view of the same. Fig. 3 is a sectional view of the improved bar, showing the connecting-link or swivel provided with a recess into which the open ends of the covering-sleeve enter.

In the drawings similar letters of reference designate corresponding parts throughout.

35 Referring to the drawings, *a* indicates the bar or tube of base metal, forming the interior portion of the chain-bar.

b is the swiveled connecting-link, to which the chain is connected.

40 *c c* are two sleeves or tubes, one end of each of which is open and the other end *d* is closed. These tubes or sleeves *c c* are drawn from a single piece of sheet metal. They are without seam or joint. The sleeves *c c* are of such length that when the bar *a* is inserted the swivel *b* can turn between the inner ends of the two sleeves, and when the sleeves are secured the swivel connecting-link *b* will be held in place on the bar *a* and be free to turn on the same. The sleeves *c* are secured by plac-

ing a small quantity of solder either into the closed ends *d* of the sleeves or on the ends of the bar *a*. If the sleeves are now passed over the bar *a* and heated sufficiently to melt the solder, they will be firmly secured to the bar *a* and hold the swivel *b* in place. This construction produces a very superior chain-bar. The bar *a*, the swivel *b*, and the sleeves *c* are each made of a solid piece of metal without any joint or seam, while the only solder used is inside the sleeve in the end *d*, where it is well protected and is subjected to little or no strain. The sleeves *c* may be drawn tightly over the bar *a*, so that the little solder used in the ends *d* may be dispensed with and the discoloration from the heat avoided.

In fine ornamental chain-bars the bar *a* may be of inferior metal, the swivel *b* of precious metal, and the sleeves *c* of precious metal, so as to make a bar in all respects equal to a solid bar of precious metal, and even superior to such a bar, as the swivel in this construction can be passed over the bar *a* before the sleeves are secured and does not require to be soldered.

A fine plated chain-bar can be made by making the swivel *b* and sleeves *c c* of what is known in the art as "stock-plate."

It is evident that the whole may be made of inferior metal, if desired.

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

1. A chain-bar consisting of an inner bar or tube, two tubular sleeves, each having one end closed, placed over the ends of the inner bar or tube, and a swivel placed on the inner bar or tube between the ends of the tubular sleeves, as described.

2. A chain-bar consisting of an inner bar or tube of inferior metal, a swivel of precious metal, and two tubular sleeves made of precious metal, each having one end closed, placed over the inner bar or tube and abutting against the swivel-piece, as a new article of manufacture.

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Witnesses:

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