

(No Model.)

J. L. FITTZ.
CHAIN SWIVEL.

No. 577,243.

Patented Feb. 16, 1897.

Fig. 1.

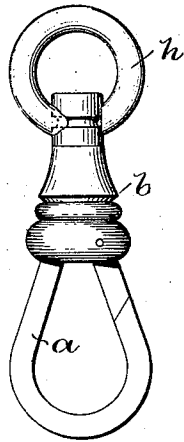


Fig. 2.

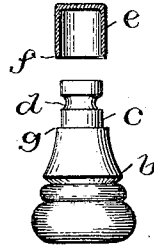
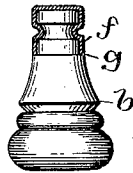


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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CHAIN-SWIVEL.

SPECIFICATION forming part of Letters Patent No. 577,243, dated February 16, 1897.

Application filed October 9, 1896. Serial No. 608,324. (No model.)

To all whom it may concern:

Beit known that I, JOHN L. FITTZ, of the city of Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Chain-Swivels; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to an improvement in the construction of watch-chain swivels; and it consists in the peculiar and novel construction by which the rotatable ring is formed of stock-plate and the raw edges are out of sight and a more sightly chain-swivel is produced at less cost.

Figure 1 is a side view of my improved chain-swivel. Fig. 2 is a side view of the post and a sectional view of the cup, showing the same separated. Fig. 3 is a side view of the post and the cup when secured together.

Watch-chain swivels are usually made of or covered with precious metal. As heretofore constructed the post was provided with a pin, on which a collar was placed, and the pin was riveted over the collar, so as to hold the same in place, while the collar and the chain-ring secured thereto could turn on the pin of the post. The objection to this construction is that the riveted end of the post is unsightly and extends into the chain-ring. Another objection is that the upper edge of the collar presents the raw edge of the stock-plate, largely used for chains and chain-swivels and consisting of a plate of inferior metal one side of which is covered with precious metal.

In the drawings, *a* indicates the snap-hook of a watch-chain swivel, *b* the post of the

swivel, and *c* the swivel-pin. This swivel-pin I provide with the annular groove *d*. The cup *e* is struck up in a suitable die from a piece of stock-plate, so that the precious metal forms the outside of the cup. The raw edge of the stock-plate is the edge *f* on the lower edge of the cup *e*. The cup *e* is placed over the pin *c*, so that the edge *f* rests on the shoulder *g* of the post *b* and is out of sight. I now indent the cup *e*, so as to force a portion of the metal into the annular groove *d*, so as to hold the cup on the pin and allow them to turn independent of each other. This indenture may extend around the cup, as shown in Fig. 1, or the indenting of the sides of the cup *e* into the groove *d* may be only at the points where the chain-ring is secured to the cup *e*, leaving the rest of the cup in its original cylindrical shape. By this construction a very neat and superior finish is given to the swivel, no raw edges are in view and liable to corrosion, and the cost of the swivel is greatly reduced.

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

In a chain-swivel, the combination with the post *b* having the pin *c* and shoulder *g*, of the annular groove *d*, the cup *e* a portion of the sides of which extends into the groove *d*, and the ring *h*; whereby the ring *h* is secured to the post and free to rotate on the same, as described.

In witness whereof I have hereunto set my hand.

JOHN L. FITTZ.

Witnesses:

JOSEPH A. MILLER,
JOSEPH A. MILLER, Jr.