

J. L. REMLINGER.
Watch-Chain Swivel.

No. 224,952.

Patented Feb. 24, 1880.

Fig. 1.

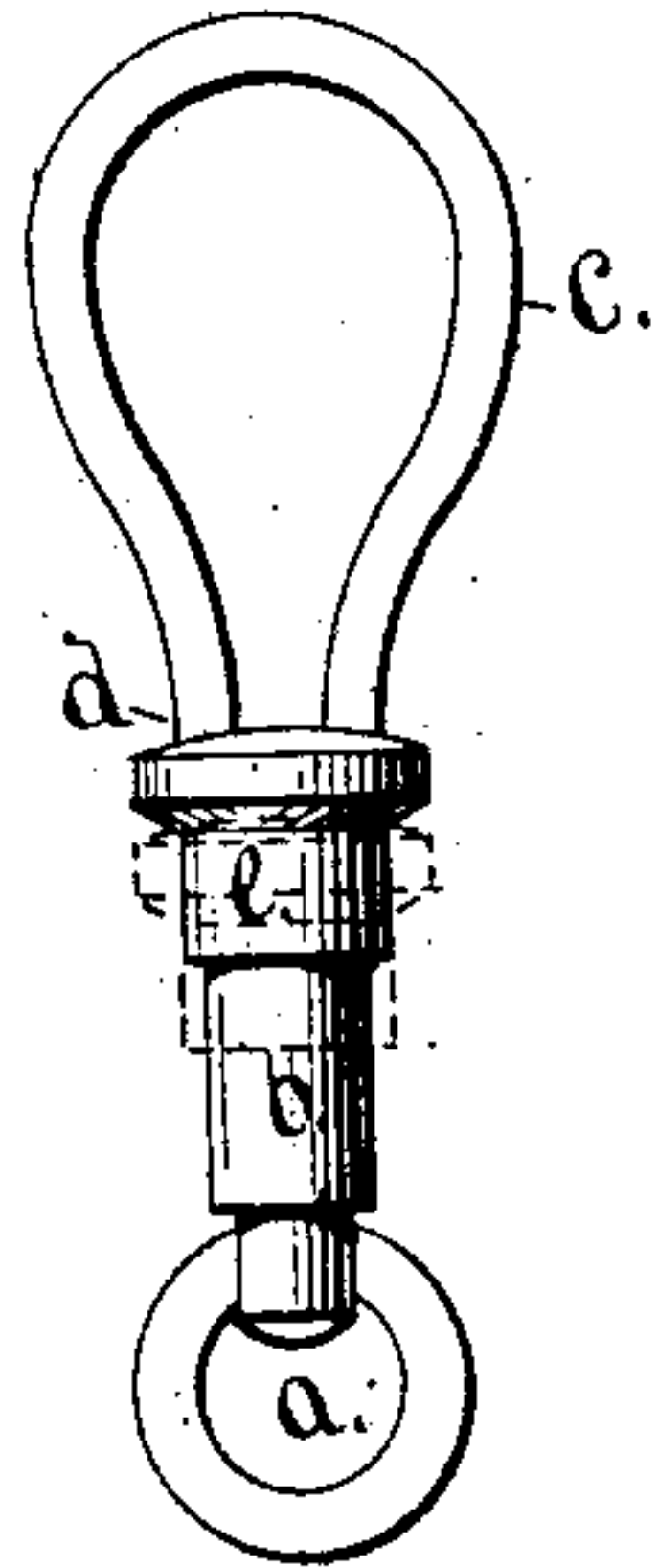


Fig. 2.

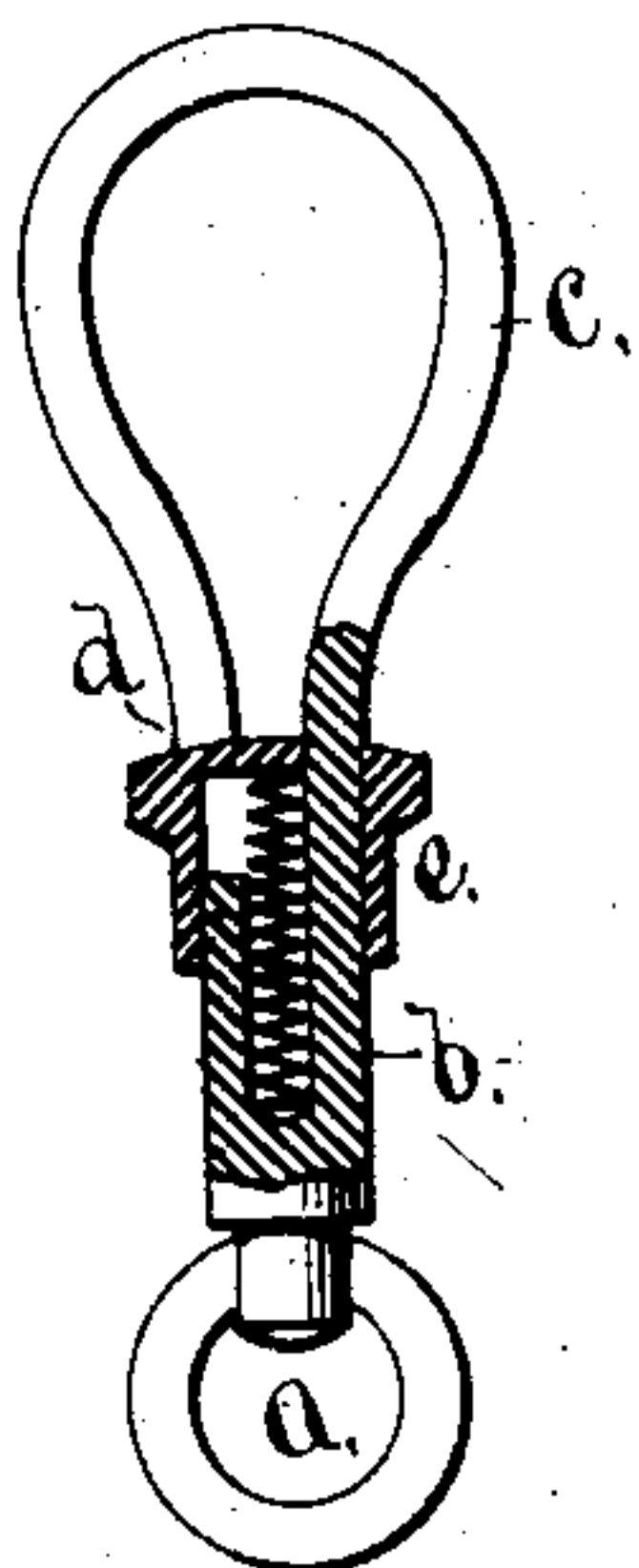


Fig. 3.

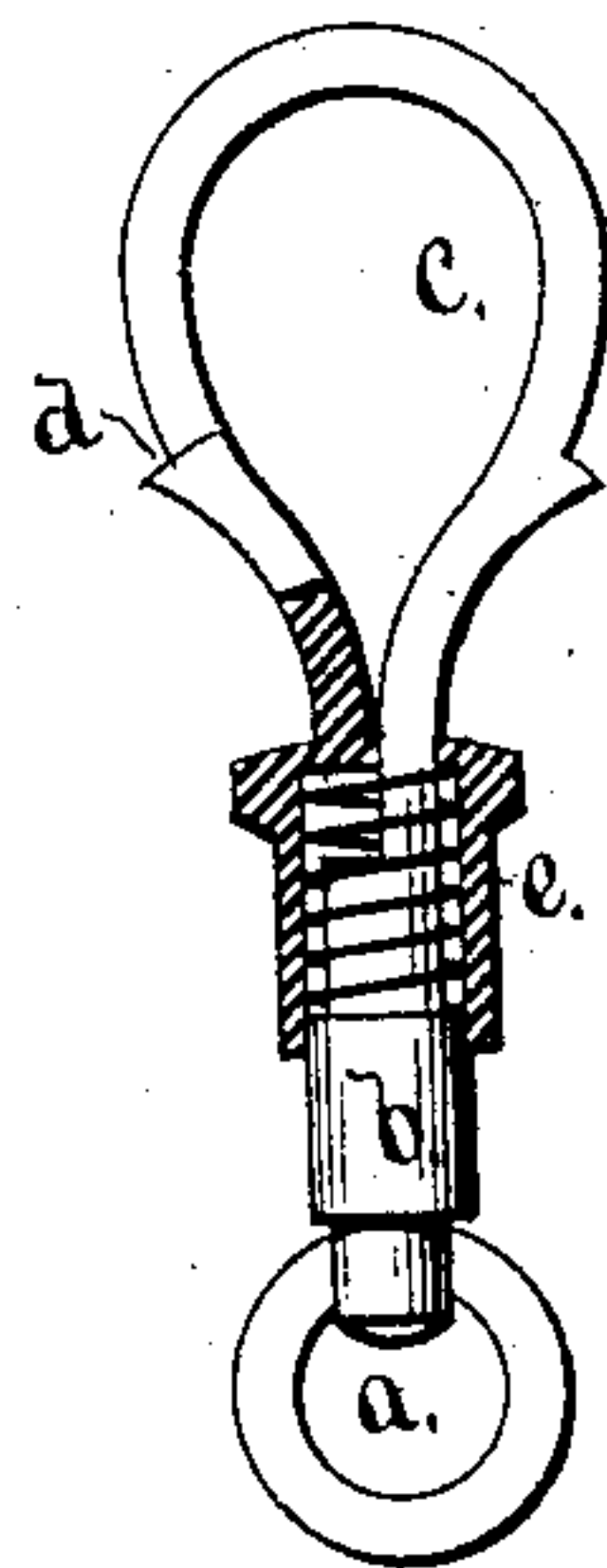
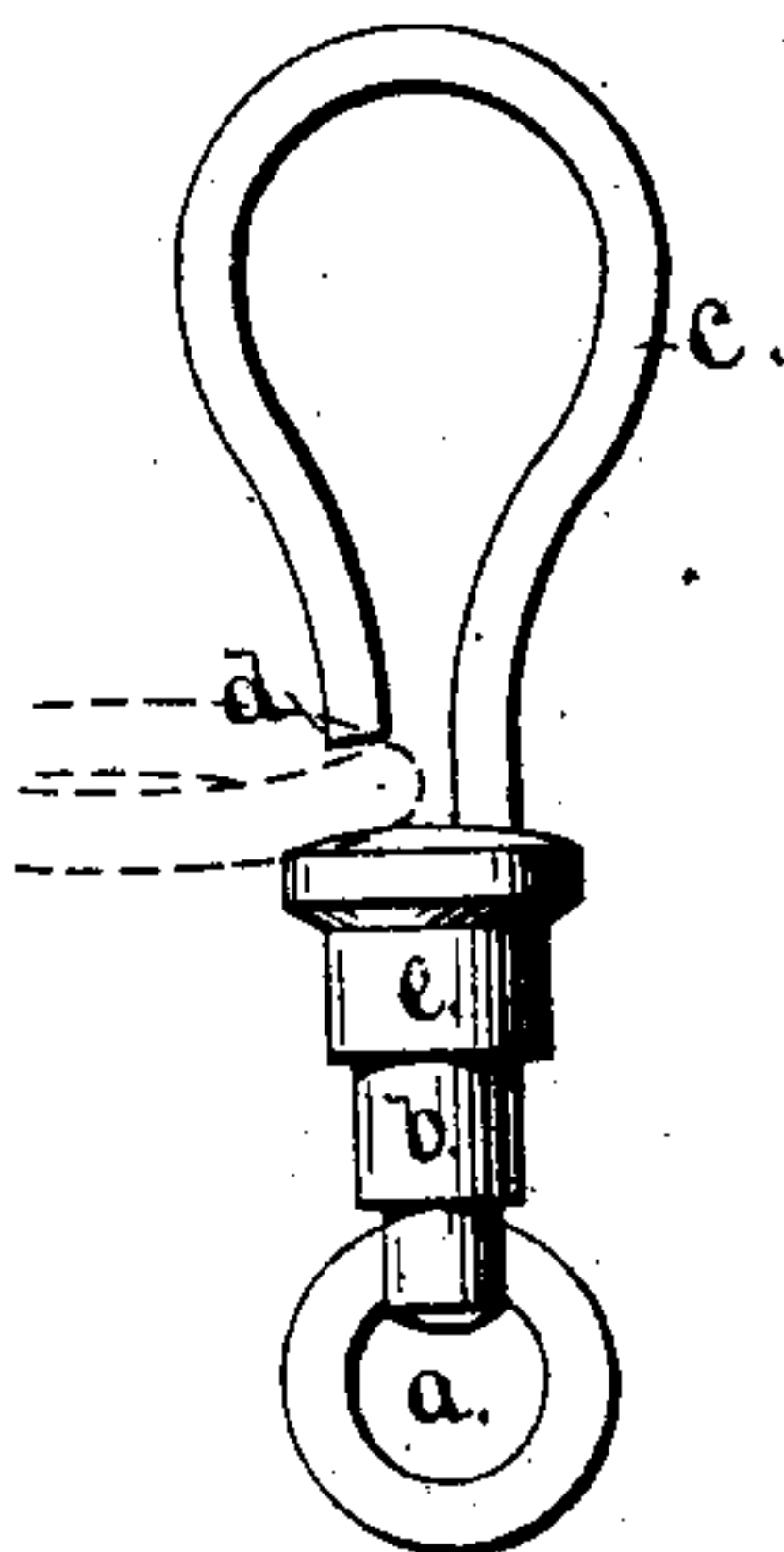


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN L. REMLINGER, OF PROVIDENCE, RHODE ISLAND.

WATCH-CHAIN SWIVEL.

SPECIFICATION forming part of Letters Patent No. 224,952, dated February 24, 1880.

Application filed October 29, 1879.

To all whom it may concern:

Be it known that I, JOHN L. REMLINGER, of the city and county of Providence, and State of Rhode Island, have invented a new and useful Improvement in Watch-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.

The object of this invention is to make a chain-swivel which shall be stronger, cheaper, and better in its operation than chain-swivels as heretofore constructed.

The invention consists in the peculiar and novel arrangement, with the hook of a chain-swivel, of a spring-pressed abutment, by which the open end of the hook is closed, as will be more fully set forth hereinafter.

Figure 1 is a perspective view of my improved chain-swivel. Fig. 2 is a sectional view of one modification of the same, and Fig. 3 is a sectional view of another modification of my improved chain-swivel.

In the drawings, *a* is the ring by which the swivel is secured to the chain. *b* is the stem, to one end of which the ring *a* is secured, and the other end of which forms the hook *c*. Against the end of the hook the abutment *e* is held by a spiral spring.

The abutment *e* is a sleeve which slides on the stem *b*, and the spiral spring may be inserted into the stem *b*, as is shown in Fig. 2, or the spring may surround the stem, as is shown in Fig. 3, and in either case the sleeve *e*, forming the abutment, will be pressed against the end of the hook at *d* and the watch or other article securely held.

This chain-swivel is much stronger than the ordinary chain-swivel, as it is simply bent and requires no hinged or otherwise loose part. It can be made of stiff and hard metal. No portion of the chain-swivel requiring to be soldered, the expense is much reduced in its manufacture, as the process of soldering requires skilled labor and subsequent cleaning. The soldering also draws the temper, reduces the stiffness and hardness of the metal, and injures the color.

When the chain-swivel is made as is shown in Fig. 2 the coiled spring is placed into a

hole bored in the stem *b*, and if made as shown in Fig. 3 the upper portion of the stem is reduced so as to form a shoulder for the spring to rest against.

The hook *c* is first formed wide enough at the lower end so that the coiled spring and the sleeve *e* can be passed over the hook onto the stem *b* when the hook is closed, as shown in Figs. 2 and 3, and the sleeve *e* is pressed against the end *d* of the hook.

The ring of a watch or any other ring may be quickly inserted by pushing on the spring-pressed sleeve *e*, and thus opening the hook, and it can be as readily released, forming a more convenient chain-swivel than those heretofore made, stronger, and less costly in construction.

Fig. 4 of the drawings has been added for the purpose of showing the swivel in the position when a ring is inserted into the hook. The ring is shown in broken lines.

The inner part of the end *d* of the hook may be rounded, so that a ring made of wire larger than the space between the hook can be forced into the hook, and will be held by the spring of the hook, thus insuring additional security.

The sleeve *e* may be provided with an extension, which presses against the end of the hook at *d*, as is shown in Fig. 3, and this extension may be wider at the point where it rests against the end of the hook, so that the opening of the hook is locked at or near the widest part of the hook, and a larger ring may be inserted than when inserted at the lower or more contracted part.

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

A watch-chain swivel consisting of the stem *b*, having a ring, *a*, secured to one end thereof, and a hook formed on the opposite end of the stem, said hook and stem being formed of a single piece of metal, in combination with a sleeve surrounding the stem, and a spring placed within and concealed by the sleeve, said spring serving to press the sleeve against the end of the hook, substantially as set forth.

JOHN L. REMLINGER.

Witnesses:

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