

S. Y. D. Arrowsmith,
Watch-Chain Attachment,
No 8,715, Patented Feb. 10, 1852.

Fig. 3.

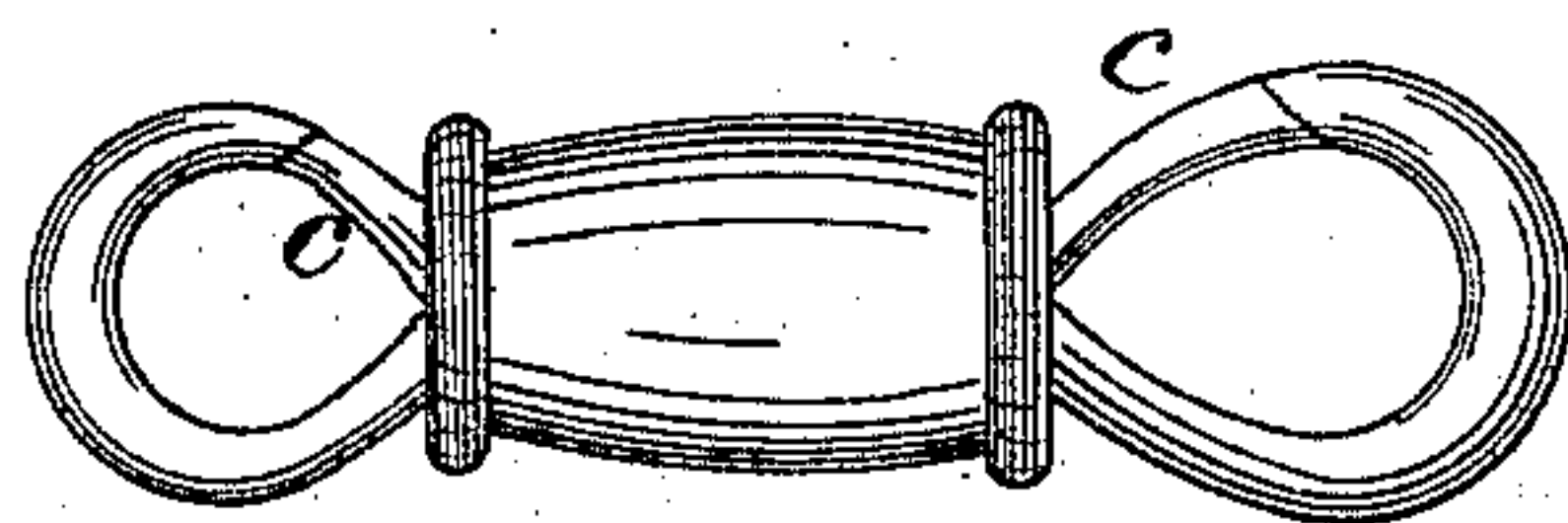


Fig. 2.

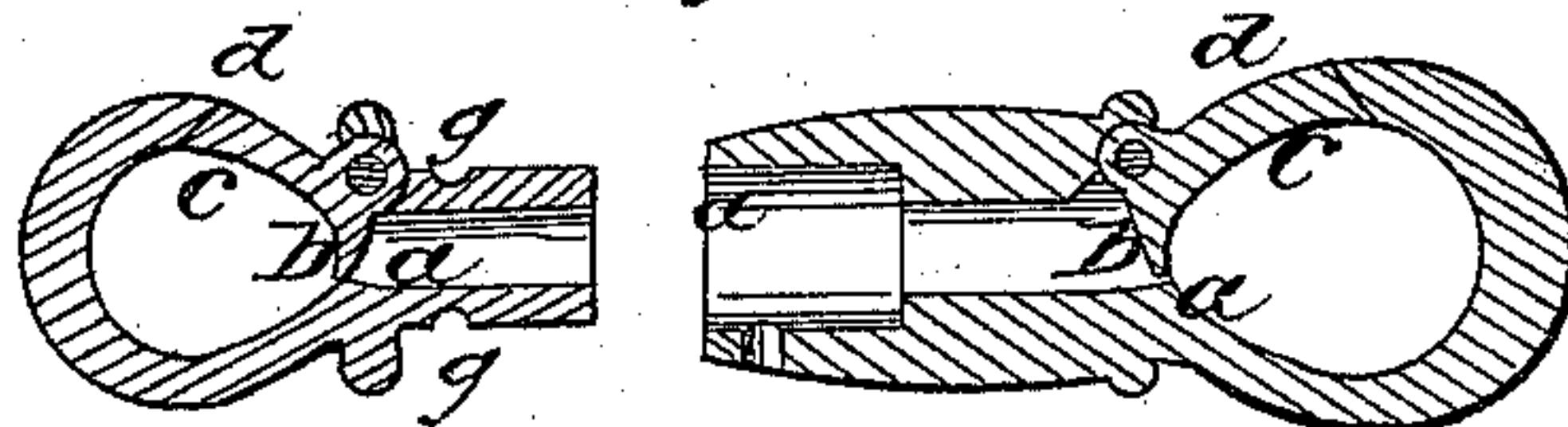


Fig. 1.

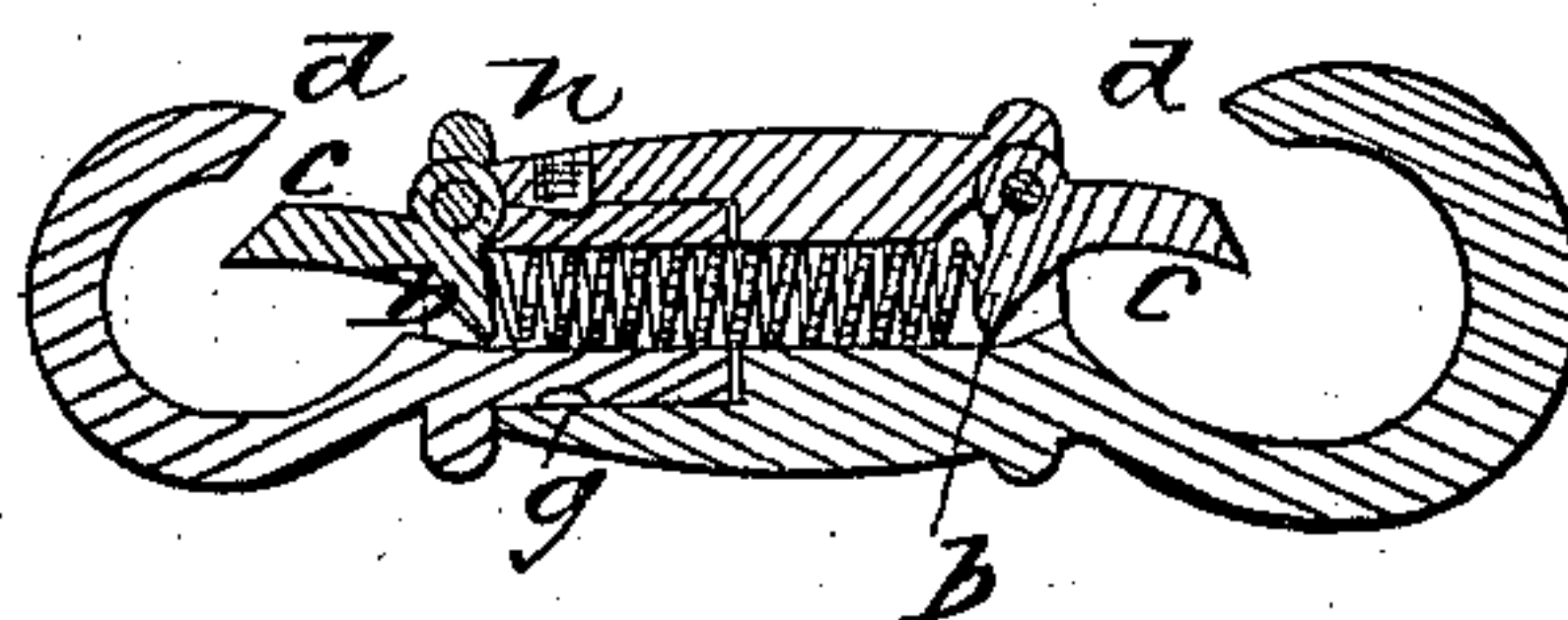


Fig. 4.



UNITED STATES PATENT OFFICE.

SAMUEL Y. D. ARROWSMITH, OF NEW YORK, N. Y.

WATCH-CHAIN SWIVEL.

Specification of Letters Patent No. 8,715, dated February 10, 1852.

To all whom it may concern:

Be it known that I, SAMUEL Y. D. ARROWSMITH, of the city of New York and State of New York, have invented a new and Improved Means of Constructing a Watch-Chain Swivel; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in the construction of a swivel with the rotating parts concealed, and with but one spring to operate on both ends, which spring passes through the entire center of the shaft, and is effected in the following manner.

I make a cylindrical hole through the center of the piece *a, a, a*, Figure 2, for the introduction of a spiral spring *b*, Fig. 4 which spring operates on either end; and on the back part of the knuckles *b, b*, of the splints *c, c*, Figs. 1, 2, and by its compression and reaction closes the openings of the splints as shown at *d, d*, Fig. 2.

The upper part of Fig. 2 is removed, to show the manner in which the center is

countersunk for the reception and formation of the swivel; *g*, is a groove cut concentric, and around its axis, for the reception of the end of a small screw *h*, which screw holds the same in position, and perfects the swivel as seen in Fig. 1, thus forming a hook which combines within itself all the facilities for attachment and detachment; together with the revolving or swivel motion, giving it at the same time all the security and convenience its uses can demand.

What I claim as my invention, and desire to secure by Letters Patent is—

1. The making swivels with a central spring to operate at both its ends against the knuckles of the joints, and for closing the openings, substantially as described.

2. In combination with the swivel so made, I claim the swivel joint made substantially as described.

SAMUEL Y. D. ARROWSMITH.

Witnesses:

JAMES B. GOLDEY,
A. C. WILLMARTH.