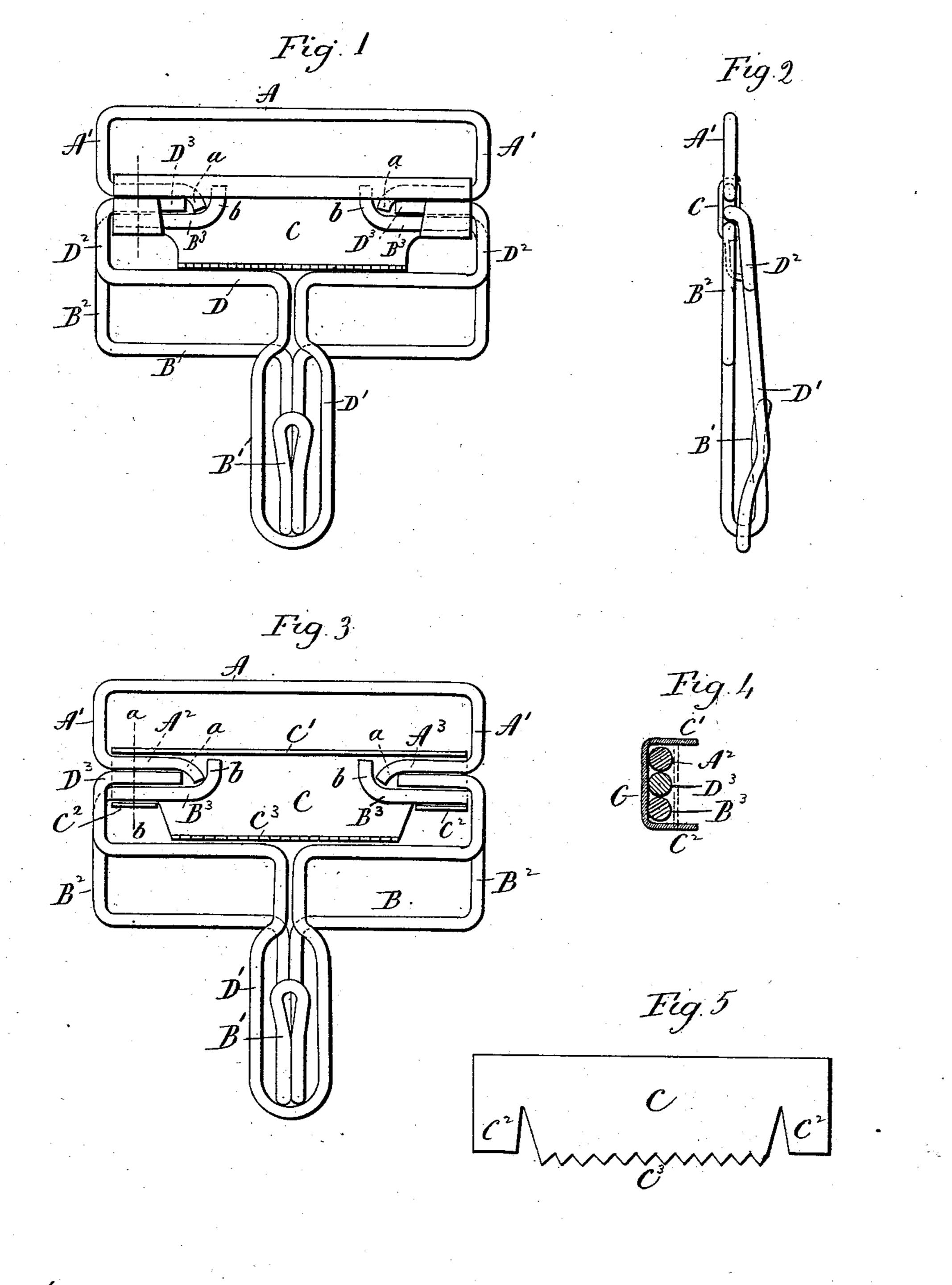
D. L. SMITH. BUCKLE.

No. 506,949.

Patented Oct. 17, 1893.



Witnesses. Sellian & Kolly

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United States Patent Office.

DWIGHT L. SMITH, OF WATERBURY, CONNECTICUT, ASSIGNOR OF ONE-HALF TO EARL A. SMITH, OF SAME PLACE.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 506,949, dated October 17, 1893.

Application filed May 4, 1893. Serial No. 472,959. (No model.)

To all whom it may concern:

Be it known that I, DWIGHT L. SMITH, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new Im-5 provement in Buckles; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which 10 said drawings constitute part of this specification, and represent, in—

Figure 1, a view in front elevation of a buckle constructed in accordance with my invention; Fig. 2, a view thereof in side elere vation; Fig. 3, a view of the buckle in front elevation after its parts have been assembled, but before the flange and fingers of its coupling plate have been turned down; Fig. 4, an enlarged view in transverse section on the 20 line a-b of Fig. 3; Fig. 5, a detached plan view of the blank from which the coupling plate is formed.

My invention relates to an improvement in wire suspender buckles, and particularly to 25 the buckle of United States Patent No. 439,436, granted to me under date of October 28, 1890, the object being to produce at a low cost for manufacture, a simple, convenient, reliable and effective device of neat and attractive

30 appearance. With these ends in view, my invention consists in a buckle having its frame composed of an upper and a lower member of wire, each having inwardly turned hooked ends, and a 35 coupling-plate constructed to receive and fold over the said ends, and to include a clamping jaw, and a wire lever having its ends turned inward to form pivots which are entered between the ends of the two members of the 40 frame which are thereto maintained in sufficient separation.

My invention further consists in certain details of construction and combinations of parts as will be hereinafter described and 45 pointed out in the claim.

In carrying out my invention, I construct the frame of the buckle with an upper member and a lower member, each formed from a single piece of wire, instead of making the

wire, as has been generally done heretofore. The said upper member comprises the upper side bar A, parailel, short frame-ends A' A', and inwardly turned ends A² A², having hooked extremities a a. The said lower mem- 55 ber of the frame comprises the lower side bar B, from which the hook B' centrally depends, the parallel frame-ends B² B², and the inwardly turned ends B³ B³, the extremities of which are hooked, as at b b. It will be ob- 60 served that the long side bars A and B of the respective members of the frame, correspond to the ordinary upper and lower side bars of a wire buckle frame, and that the frame-ends A' A' of the upper frame member co-operate 65 with the frame-ends B² B² of the lower framemember, to form parallel ends, corresponding generally to the ends of a wire buckle frame. It will be observed that the ends B³ B³ of the lower member are longer than the 70 corresponding ends A² A² of the upper member, and that the hooked extremities of the said ends are turned in opposite directions, the purpose of which will appear later on. The said members of the buckle-frame are 75 coupled together by means of a sheet-metal coupling-plate, comprising a body C, a flange or leaf C', located at the upper edge thereof, two fingers C² C² located at the opposite ends of the lower edge of the said plate, and a ser- 80 rated clamping edge or jaw C3, which projects downward from the body between the said fingers.

The lever of the buckle is made from wire, and comprises a bar D, from which a loop or 85 eye D'centrally depends, short parallel lever-ends D² D², and long pivot-ends D³ D³ extending inward toward each other. The said pivot-ends of the lever are inserted between the ends $A^2 A^2$ and $B^3 B^3$ of the frame- 90 members, the said ends being thereto sufficiently separated, and co-operating with the coupling-plate to form sockets for the said pivot-ends.

In Fig. 3 of the drawings the parts of my 95 improved buckle are shown after they have been assembled, but just before the flange C' and the fingers C² C² of the coupling-plate have been turned down to bind the parts to-50 frame of the buckle from a single piece of I gether. It may be here stated that by hook- 100 ing the extremities of the ends of the framemembers in opposite directions, the same are prevented from turning on their ends within the coupling-plate, and kept apart whereby the two members of the frame are maintained in the same horizontal plane and the said ends are kept apart for the insertion of the pivot ends of the lever between them.

By constructing a buckle-frame as de-10 scribed, I avoid the expense and unsightliness of the tubes which are ordinarily used on the frames of wire buckles to receive the ends of the wire, which are generally terminated in the upper side bars of the frames. 15 Furthermore, by forming the buckle-frame with two members having inwardly turned ends, I am enabled to make the lever with pivot-ends of such length that the bands ordinarily employed on wire levers just above 20 the loops or eyes thereof to keep their pivotends from spreading, may be dispensed with, for if the ends of the lever, as I use it, should spread apart some, they cannot spread enough to permit them to get out of place. By dispens-25 ing with this sheet-metal band, I also effect an economy of construction, both as to labor and material. I also find it cheaper to make the buckle-frame with an upper and a lower member as described from two independent pieces 30 of wire, than to make it from a single piece of

wire, bending the same to form deep U-shaped

recesses in its ends to receive the pivot-ends of the lever.

I would have it understood that I do not limit myself to the exact construction herein 35 shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what 40 I claim as new, and desire to secure by Letters Patent, is—

The herein described suspender-buckle, having a frame composed of an upper and a lower member of wire formed independently 45 of each other, and respectively constructed with inwardly turned hooked ends, a coupling-plate constructed to receive and fold over the said ends, and to form a clamping jaw, and a wire lever made with pivot ends adapted 50 to be inserted between the said inwardly turned hooked ends of the frame-members which are maintained in the same plane by the co-operation of their hooked ends with the coupling-plate substantially as set forth. 55

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

DWIGHT L. SMITH.

Witnesses:

WM. L. KING, MINNIE TRIPP.