

(No Model.)

J. N. BROWN.
CLOTHES LINE.

No. 430,170.

Patented June 17, 1890.

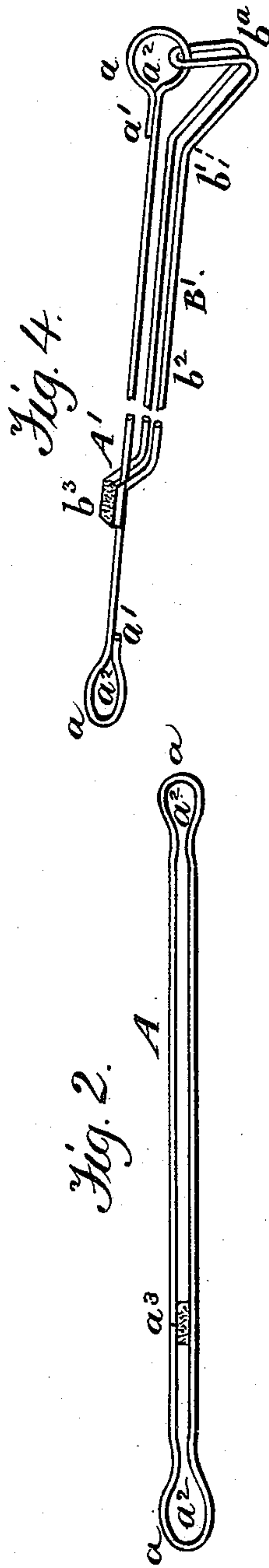
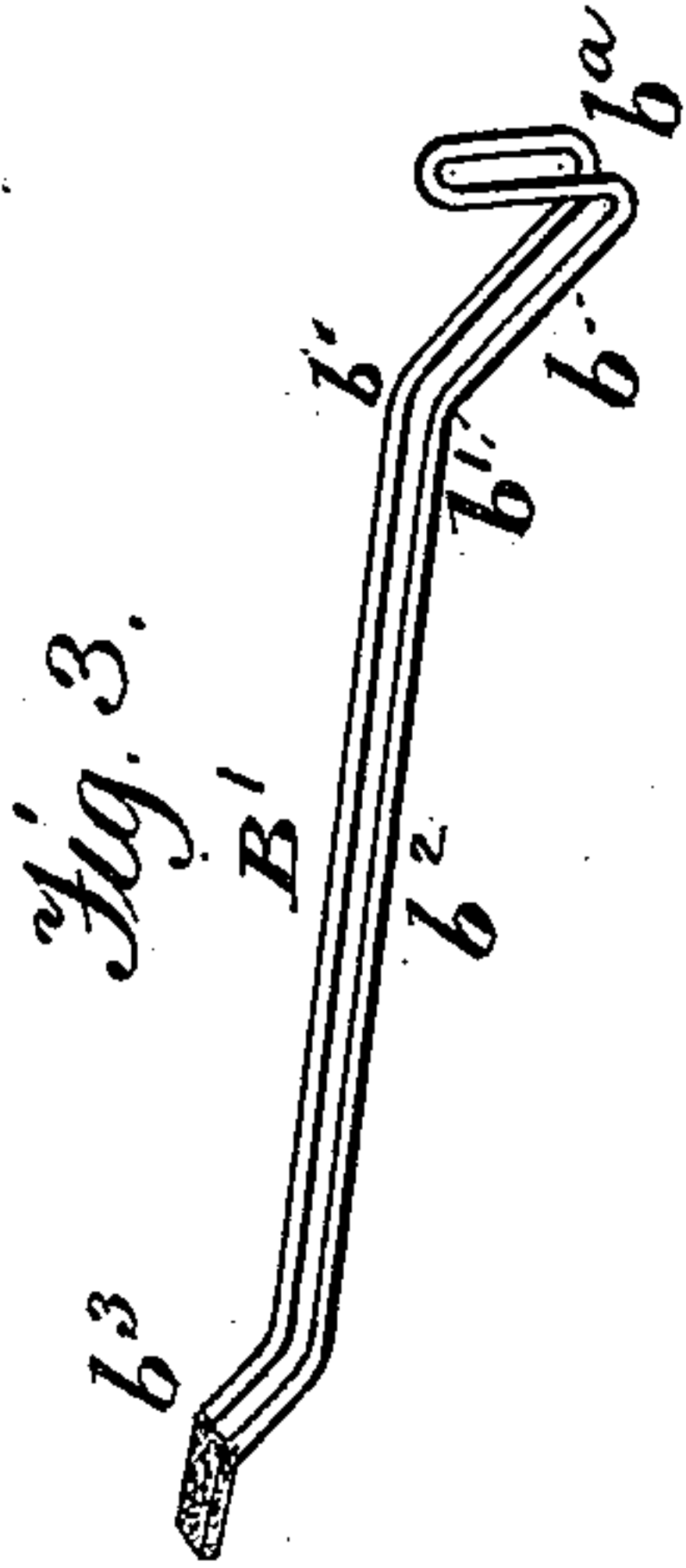
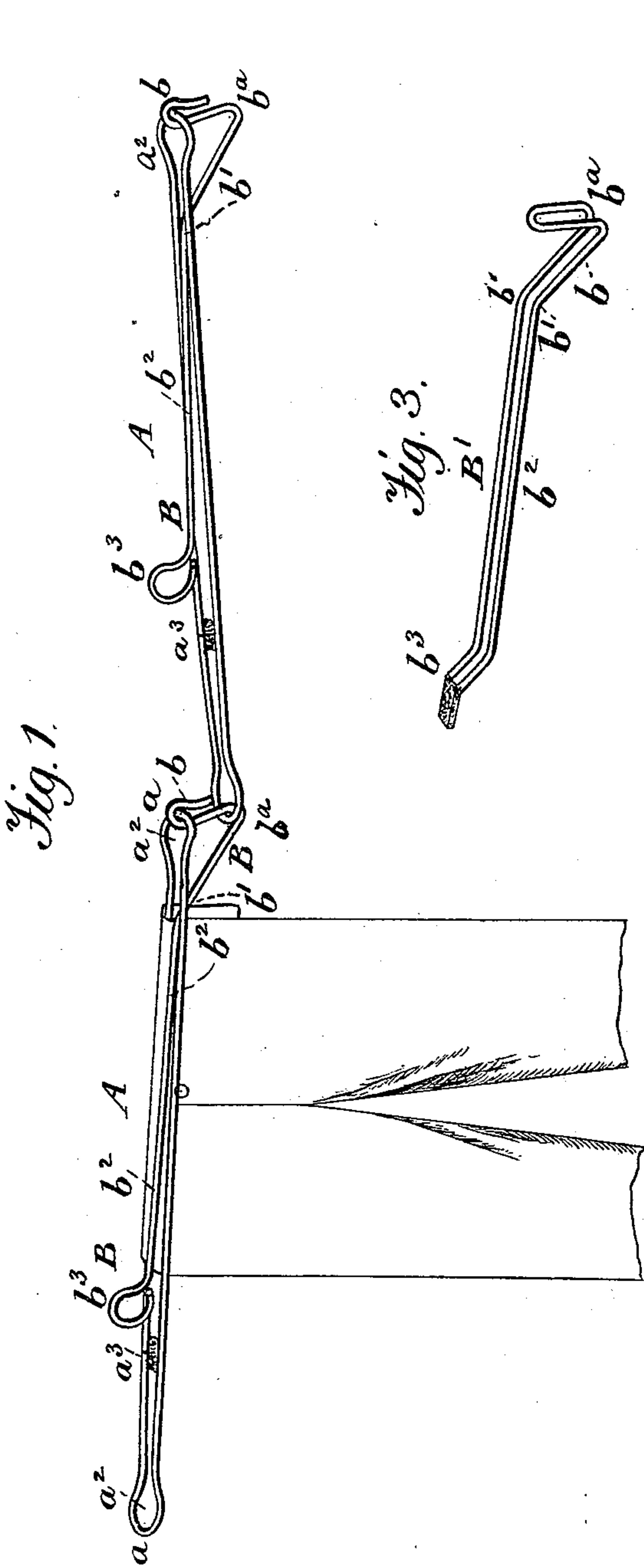


Fig. 4.

Witnesses.
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UNITED STATES PATENT OFFICE.

JOSEPH N. BROWN, OF FARWELL, MICHIGAN.

CLOTHES-LINE.

SPECIFICATION forming part of Letters Patent No. 430,170, dated June 17, 1890.

Application filed November 16, 1889. Serial No. 330,550. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH N. BROWN, a citizen of the United States, residing at Farwell, in the county of Clare and State of Michigan, have invented certain new and useful Improvements in Clothes-Lines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

The invention relates to clothes-lines which are made of wire and provided with means for fastening garments thereto.

The invention will first be described in connection with the drawings, and then pointed out in the claim.

Figure 1 of the drawings is a perspective view of my wire clothes-line as an entirety; Fig. 2, a detail view of the link which I employ; Fig. 3, a detail view of a modification of the coupler and clamp, and Fig. 4 a perspective view showing the double-wire clamp with the single-wire link.

In the drawings, A' represents the link made of a single wire bent over at *a a* and soldered at *a' a'* to form the two end loops *a²*, or, as shown in Fig. 2 of the drawings, the link A may have the ends of the wire extended, so as to meet and be there soldered at *a³* to the body of wire, as shown in Fig. 1 of the drawings.

B is the clamp-coupler, which is made with a hook *b* at one end to engage one of the link-loops *a²*, an obtuse-angle bend *b'*, a straight arm *b²*, and a turned-up end *b³*, by which it may be raised. This construction is shown in Fig. 1 of the drawings. It may be made double, as shown in Figs. 3 and 4 of the drawings, or single, as shown in Fig. 1. When

made single, the end *b³* is passed up between the wire strands of the link and the arm *b²* caused to lie upon the top of the link A.

It will be observed that the single-wire clamp B has at one end the reverse hooks *b b^a*, the hook *b* being intended to engage a loop of the adjacent end of a link and the hook *b^a* to engage the loop of the next link, while the double-wire clamp B' receives one loop between the wires, as shown in Fig. 4 of the drawings, and the hook *b^a* is made double and engages the next link in the same manner as the hook *b^a* in Fig. 1 of the drawings, thus rendering only one hook necessary on the double clamp B'. Thus it will be seen that either the clamp or the link may be made double, but not both, as the single one must pass up through the double one.

A garment is placed on a link so as to bring more or less of it under the clamp, which has been lifted for the purpose. Then the clamp is brought down and held by the tension of the line, which is made taut by any suitable stretcher.

The clothes-line is made of galvanized steel wire.

The single-wire clamp B operates between the wires of the link, while the double-wire clamp B' works on the outside thereof.

What I claim as new, and desire to protect by Letters Patent, is—

A wire clothes-line made of links and clamps, the former provided with end loops and the latter connected to the link and provided with a hook to engage the next link, obtuse-angled bend *b'*, straight arm *b²*, and turned-up end *b³*, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH N. BROWN.

Witnesses:

J. MCKERRACHER,
GEORGE LYONS.