

(No Model.)

J. P. KIRK.
PINLESS CLOTHES LINE.

No. 512,715.

Patented Jan. 16, 1894.

Fig. 1.

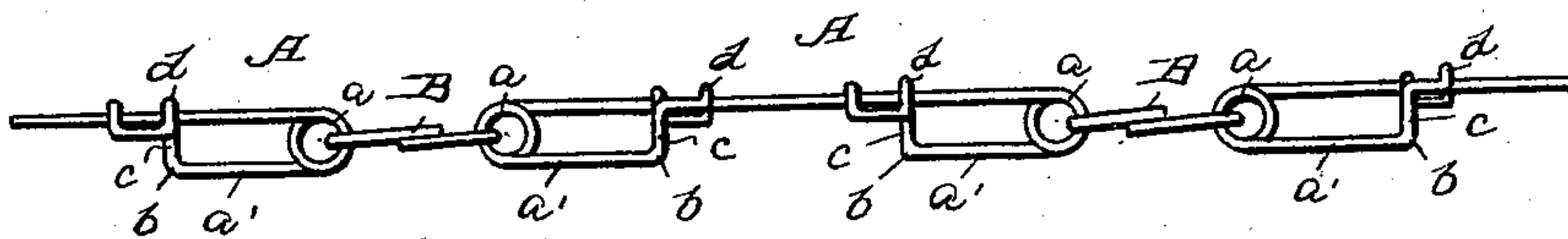
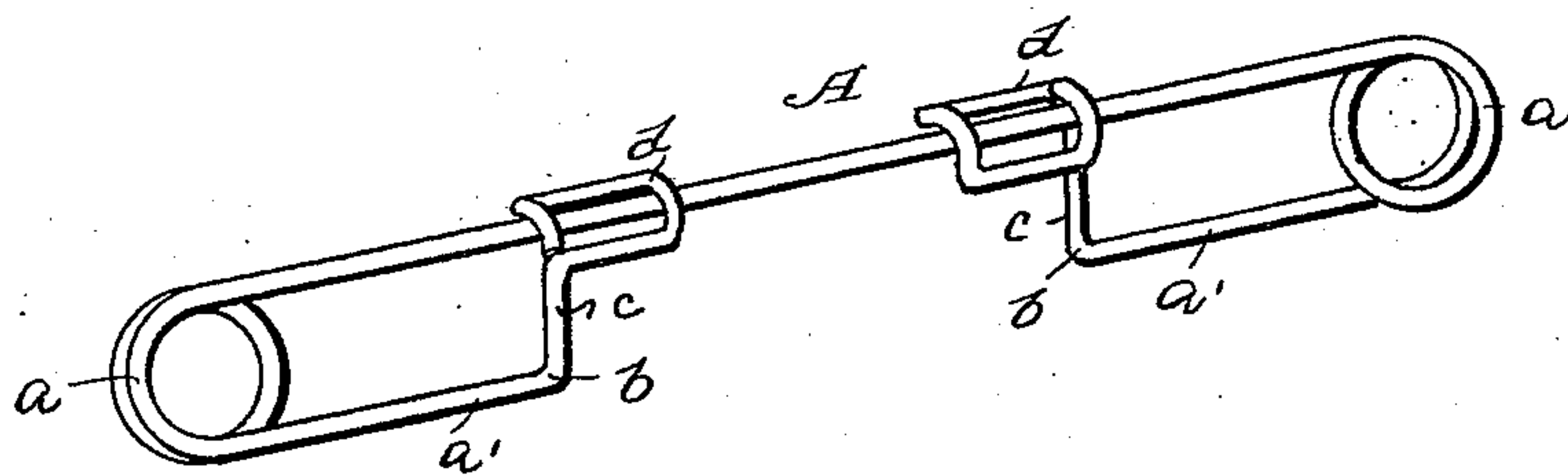


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN P. KIRK, OF AUSTIN, TEXAS.

PINLESS CLOTHES-LINE.

SPECIFICATION forming part of Letters Patent No. 512,715, dated January 16, 1894.

Application filed April 15, 1893. Serial No. 470,395. (No model.)

To all whom it may concern:

Be it known that I, JOHN P. KIRK, a citizen of the United States, and a resident of Austin in the county of Travis and State of Texas, have
5 invented certain new and useful Improvements in Pinless 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 apper-
10 tains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side view of
15 a portion of the clothes line, and Fig. 2 is a perspective view of one of the links.

This invention has relation to certain new and useful improvements in pinless clothes lines, and it consists in the novel construction and combination of parts, all as hereinafter described and pointed out in the accompanying claim.

The object of the invention is to provide a
25 simple, inexpensive and practical clothes line, formed of a series of loosely connected links of an improved character, said links consisting each of a single piece of wire, bent in such a manner as to provide secure means for holding the clothes, and formed entirely without
30 the use of solder.

Referring to the accompanying drawings, the letter A designates one of the links of which the line is composed, said link comprising a single piece of wire, bent at each
35 end portion to form a spring coil *a*, which lies on the under side of the link. Leaving said coils the wire at each end is carried along substantially parallel with the body of the link, as shown at *a'*, toward the center thereof to
40 the point *b*, where it is bent upwardly at right angles, to form a vertical arm *c*. The wire at the extremity of each of said arms *c* is bent to form an angular loop *d*, parallel with the body of the link, said loop being some-

what concaved on its under face in order that
45 it may better engage with the body of the link, as shown in the drawings. These loops *d* are of broad, rectangular, horizontal, open form, their end bars resting on the main wire of the link. The parts *a'*, *c*, and *d* at each
50 end with the coil, it will be seen, afford an efficient spring clasp for the clothes, the loop *d* forming a broad bearing thereon. The shape of the clamp is such that it may be readily engaged and disengaged. The links
55 are connected one with another by means of the oblong short links B, the ends of said links being lapped in the manner of an ordinary lapped link, except that they need not be tapered, the lapped portions lying close to
60 each other. The spring of the wire allows said lapped links to be opened to receive the coils of the long links A. This connection permits the line to be folded in compact form.

Having thus described my invention, what
65 I claim, and desire to secure by Letters Patent, is—

The herein described pinless clothes line, consisting of a series of long links, each provided at its end portions with circular spring
70 coils, and with spring clasps extended from said coils underneath the body of the link and parallel therewith, toward the center thereof, and having each an upward bend terminating in a broad, rectangular, horizontal, open
75 loop, parallel with the body of the link and concave on its under face to rest by its two end bars on the main wire of the link, and short links engaging the end coils of the long links and forming a loose connection between
80 said long links, substantially as specified.

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

JNO. P. KIRK.

Witnesses:

W. B. THRASHER,
J. A. STUART.