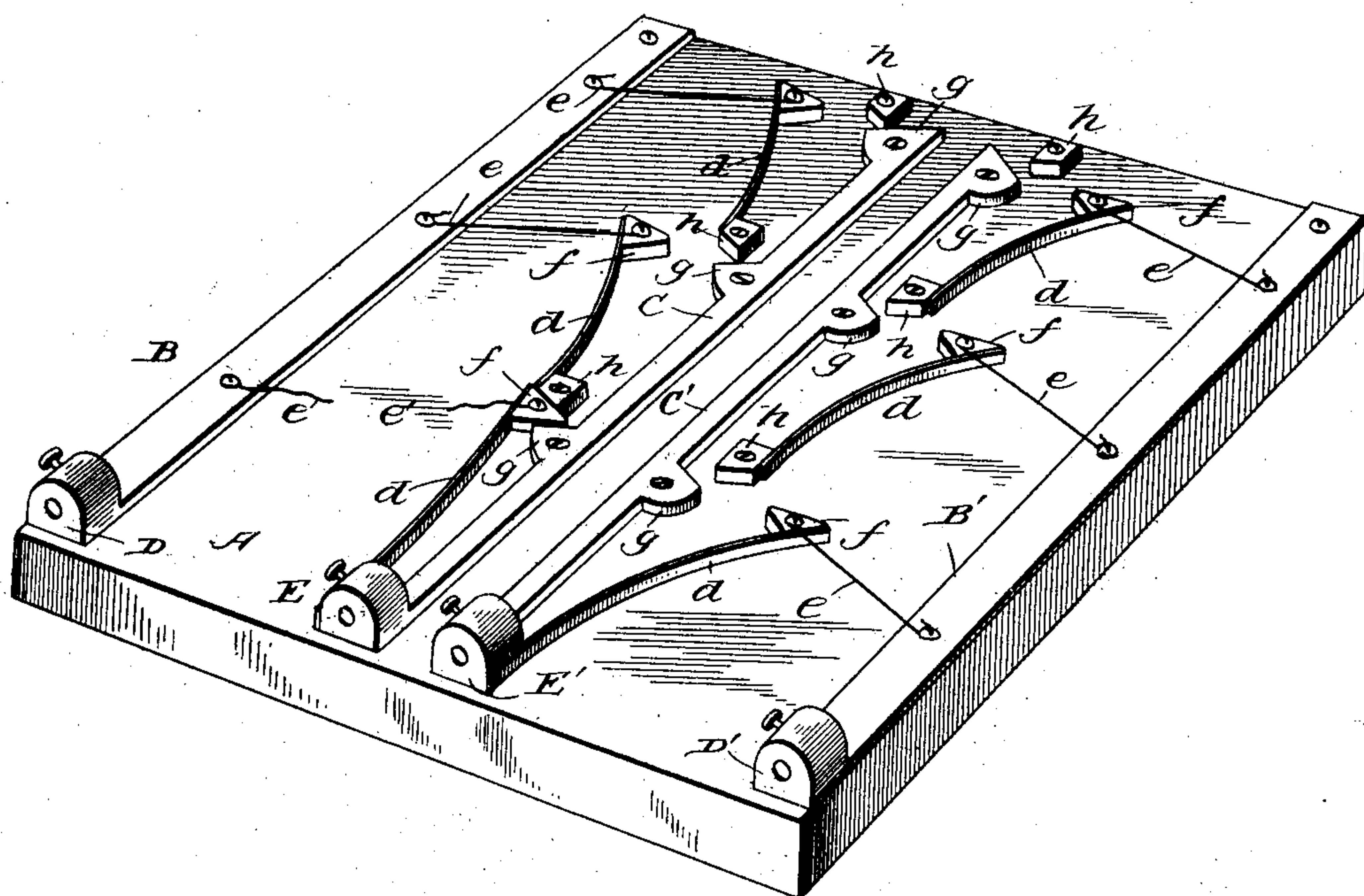


(No Model.)

S. A. YOUNG & C. ALDEN.  
FUSIBLE CUT-OUT.

No. 500,248.

Patented June 27, 1893.



Witnesses

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# UNITED STATES PATENT OFFICE

STEPHEN A. YOUNG AND CLARENCE ALDEN, OF MARYVILLE, MISSOURI.

## FUSIBLE CUT-OUT.

**SPECIFICATION** forming part of Letters Patent No. 500,248, dated June 27, 1893.

Application filed April 3, 1893. Serial No. 468,902. (No model.)

*To all whom it may concern:*

Be it known that we, STEPHEN A. YOUNG and CLARENCE ALDEN, citizens of the United States of America, residing at Maryville, in the county of Nodaway and State of Missouri, have invented certain new and useful Improvements in Automatic Electric Cut-Outs, of which the following is a specification, reference being had therein to the accompanying drawing.

Our invention relates to automatic cut-outs for electric circuits, and consists in the novel features hereinafter described, illustrated in the accompanying drawing, and more especially pointed out in the claim.

The object of our invention is to automatically restore the circuit on an electric line when the same has been interrupted by the melting of the fusible wire incident to the transmission of an abnormal current.

The annexed drawing represents a perspective view of our improved cut-out, in which—

A, indicates the base, which may be formed of any nonconducting material. Upon each side of this base are secured metal plates B, B', which are provided at their ends with perforated lugs D, D', and binding screws for securing the ends of the line wires; intermediate of the plates B, B', are located plates C, C', which are provided with perforated lugs and screws similar to those of plates B, B'; the plates C, C', are also provided with a series of projections g, g.

To each of the lugs E, E', we secure one end of a spring d; these springs are provided at their other extremity with delta formed projections f, to which is attached one end of the fusible wires e, the other end being secured to the plates B, B'.

Adjacent to each of the projections g, of the plates C, we attach a metal block h, which taken with said projections form openings

adapted to receive the angular ends f, of the springs d. To each of the blocks h, we secure a spring similar in all respects to those attached to the lugs E, E', until we have formed as many connections as may be desired. Normally all the springs are held out of contact with the projections g, and the blocks h, and the current passes from the line over the plates B, B', the first set of fusible wires e, springs d, and to the instrument or ground from the lugs E, E'; but if an abnormal current enters sufficient to fuse one of the wires as shown at e, the resiliency of the spring will at once seat the angular end f, between block h, and the projection g, on plate C, and thereby close the current through the second wire e, and in this way the current may be maintained practically without interruption, until all the wires e, have been fused.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In an automatic electrical cut-out, a base of non-conducting material having electrical conductors on either side, provided with suitable connections, conductors intermediate of said side conductors provided with projections, a series of spring actuated circuit closers, one end of each closer being adapted to complete the circuit, when interrupted from the fusing of a wire, by falling between the end of the following closer and the co-operating projection on the intermediate conductor, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

STEPHEN A. YOUNG.  
CLARENCE ALDEN.

Witnesses:

IRA K. ALDERMAN,  
DALE V. ALDERMAN.