

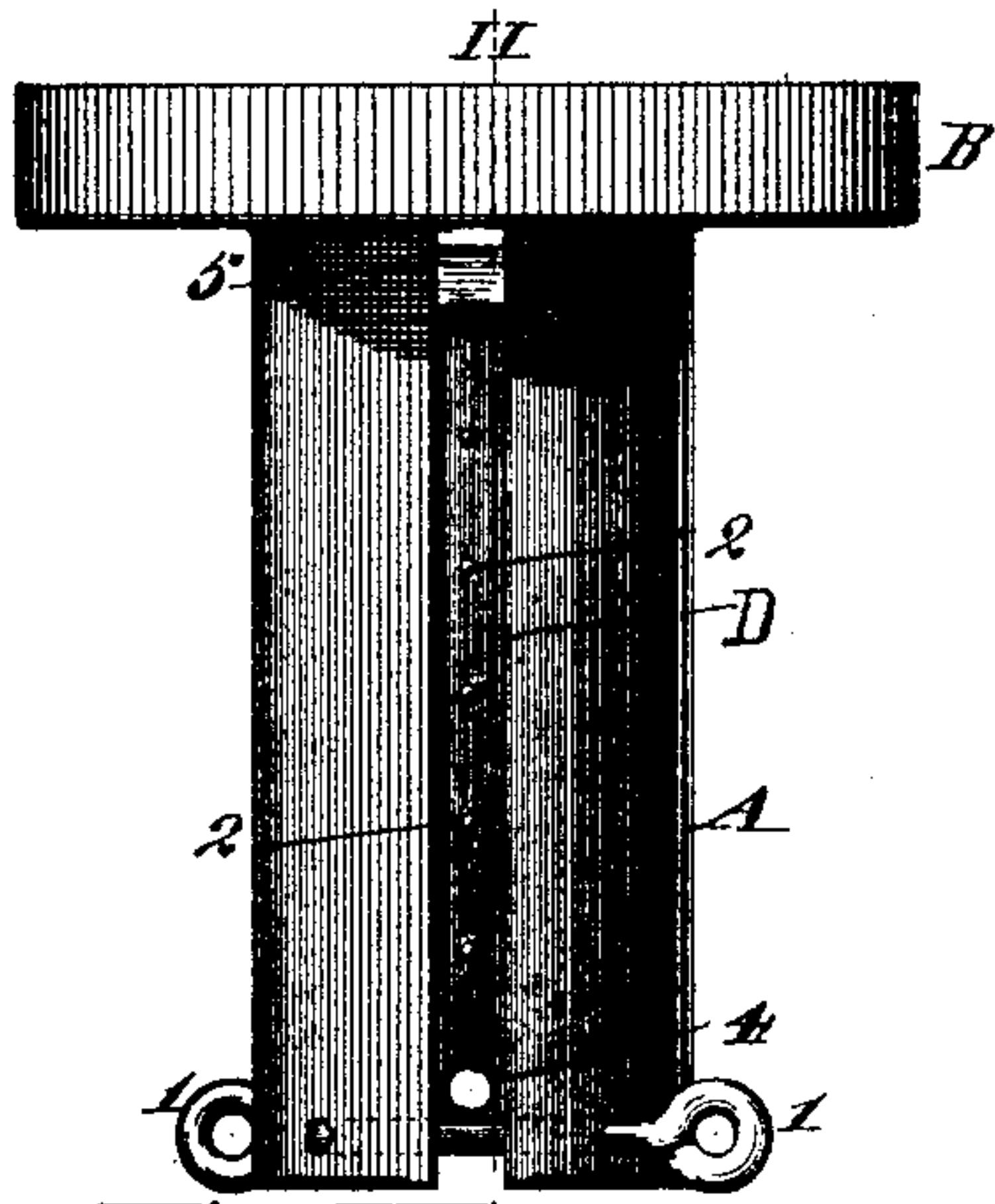
(No Model.)

J. L. BRADLEY.  
THERMAL CIRCUIT CLOSER AND INDICATOR.

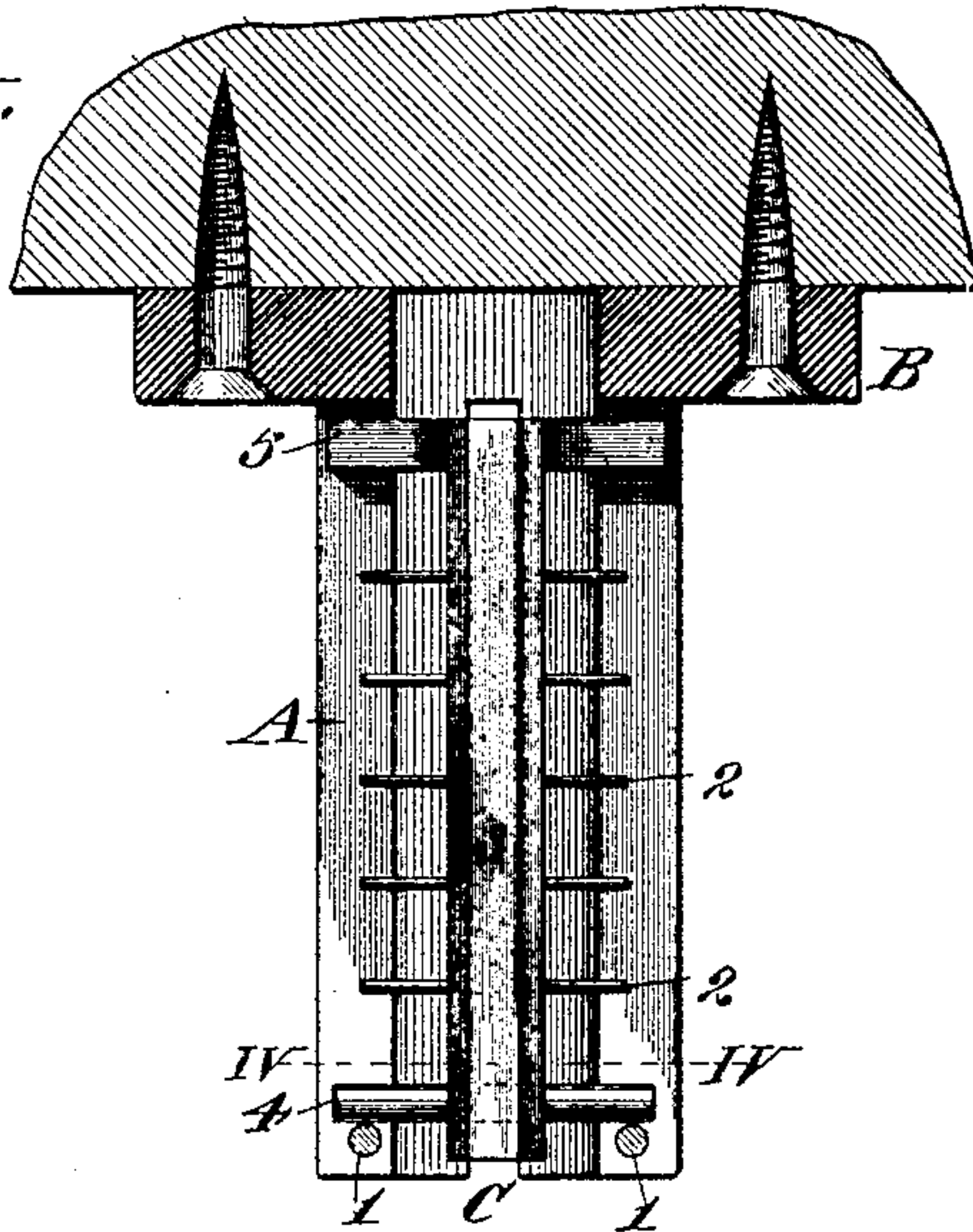
No. 498,153.

Patented May 23, 1893.

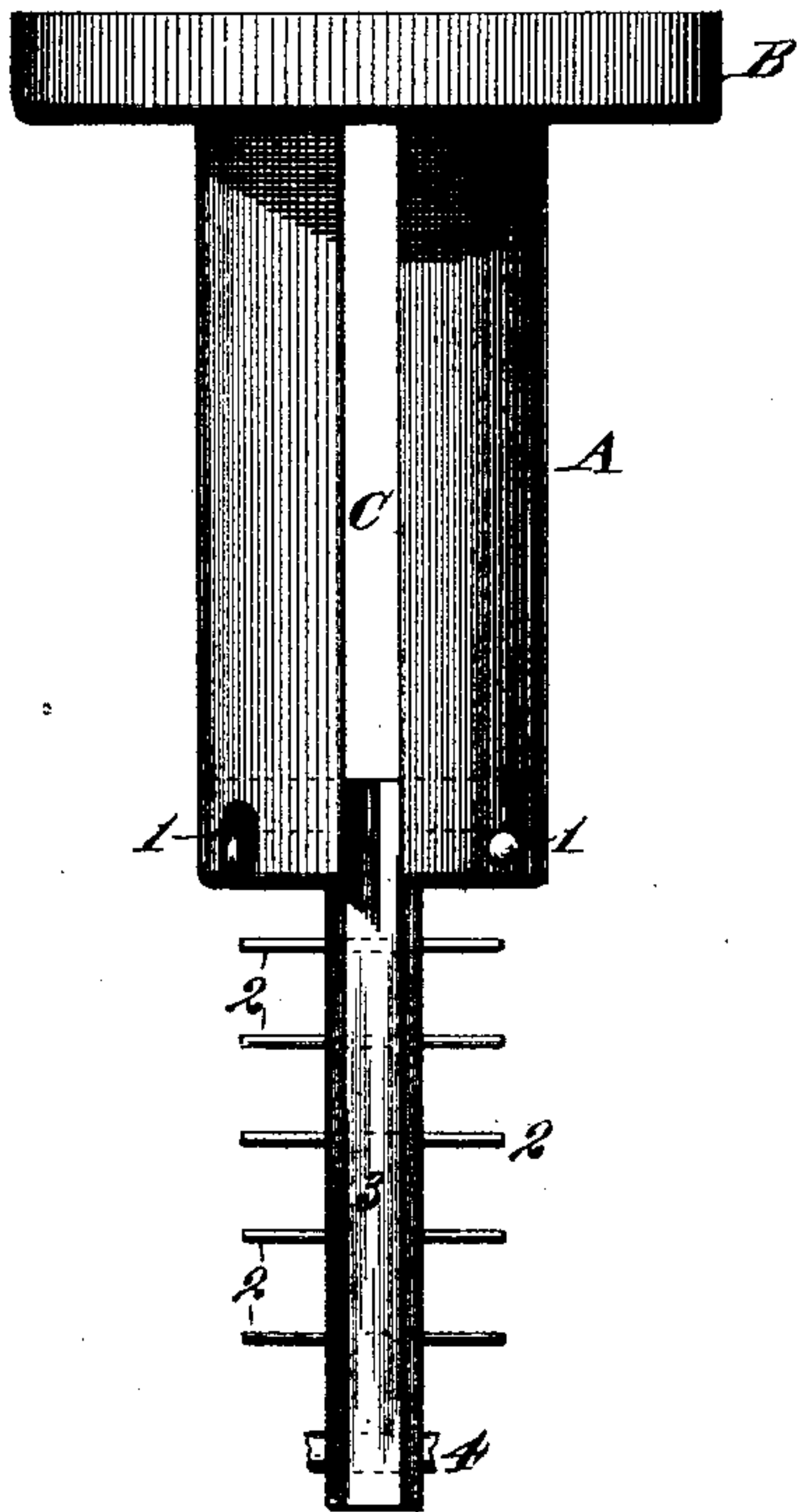
*Fig. I.*



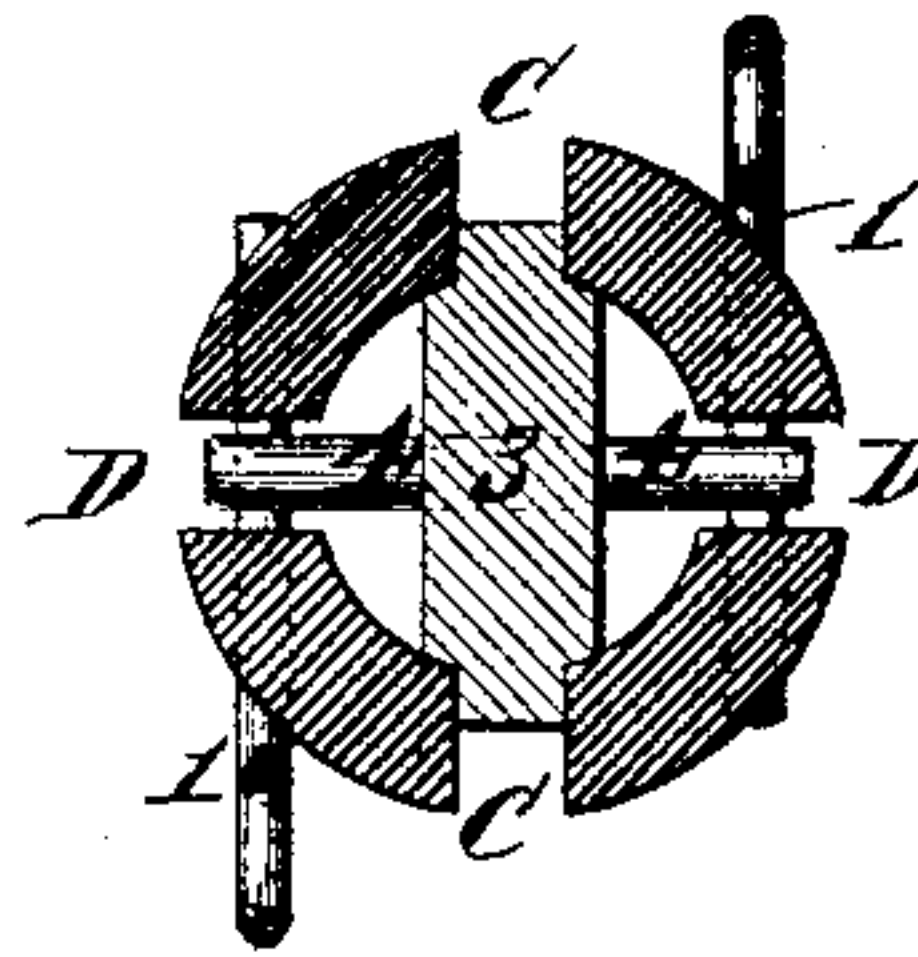
*Fig. II.*



*Fig. III.*



*Fig. IV.*



*Attest:*

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# UNITED STATES PATENT OFFICE.

JAY L. BRADLEY, OF ST. LOUIS, MISSOURI.

## THERMAL CIRCUIT-CLOSER AND INDICATOR.

SPECIFICATION forming part of Letters Patent No. 498,153, dated May 23, 1893.

Application filed December 5, 1892. Serial No. 454,081. (No model.)

*To all whom it may concern:*

Be it known that I, JAY L. BRADLEY, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Electric Indicators, of which the following is a description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to an improved indicator which will signal the exact floor of a building where fire exists.

My invention consists in features of novelty hereinafter fully described and pointed out in the claims.

Figure I is an elevation illustrative of my invention, and showing the movable plug or object in its normal upper position. Fig. III is a similar view, showing the plug or movable object in its lower position. Fig. II is a vertical section taken on line II—II Fig. I. Fig. IV is a transverse section taken on line IV—IV Fig. II.

Referring to the drawings, A represents a guide or support of some non-conducting material, and having a base B by which it is secured in place. The part A is preferably made in the form of a cylinder with slots C and D in its sides.

3 represents a gravitating block or object movable by gravity when released, and located within the support A and guided therein by its sides fitting in the slots C. This block or object 3 is provided at its lower end with a fusible plug 4 and at its upper end with a stop or cross piece 5. Between the plug and the stop, the block is provided with a number of contact points 2. The end of the plug, stop, and contact points fit and move in the slots D of the support A.

1 represents contact points secured to or fitting in the support A and to which the electric wires are connected. Upon these points 1 the fusible plug 4 rests, as shown in Figs. I

and II, and by this means the block 3 is held in its upper position in the support A, the electric circuit being closed as long as the plug 4 rests on the points 1.

The operation is as follows: Should the temperature in a room rise above a certain point the plugs 4 will fuse, and the block 3 will drop until the stop 5 comes against the points 1, again closing the circuit. As the block 3 falls the points 2 engage the points 1 and slip past through them, the circuit being closed each time, and by providing the proper number of these points 2 to correspond with the number of the floor upon which the indicator is placed, the signal given will indicate upon what floor of the building the fire is located.

I claim as my invention—

1. In an electric indicator, the combination of contact points 1, a movable object 3 having contact points 2, and fusible plugs 4, substantially as and for the purpose set forth.

2. In an electric indicator, the combination of contact points 1, a movable object 3 having contact points 2, and a fusible plug 4, and stop 5, substantially as and for the purpose set forth.

3. In an electric indicator, the combination of the support A having slots C and D, movable object 3 fitting in said support and guided by said slots C and provided with a fusible plug 4, contact points 2, and a stop 5, all fitting and moving in said slots D, and contacts 1 fitting in said support, and upon which said fusible plug 4 and stop 5 are adapted to rest, and against which said contact points 2 are adapted to engage, substantially as and for the purpose set forth.

JAY L. BRADLEY.

In presence of—

ALBERT M. EBERSOLE,  
ED. S. KNIGHT.