

No. 832,116.

PATENTED OCT. 2, 1906.

F. E. AUSTIN.
THERMOSTAT.

APPLICATION FILED DEC. 26, 1905.

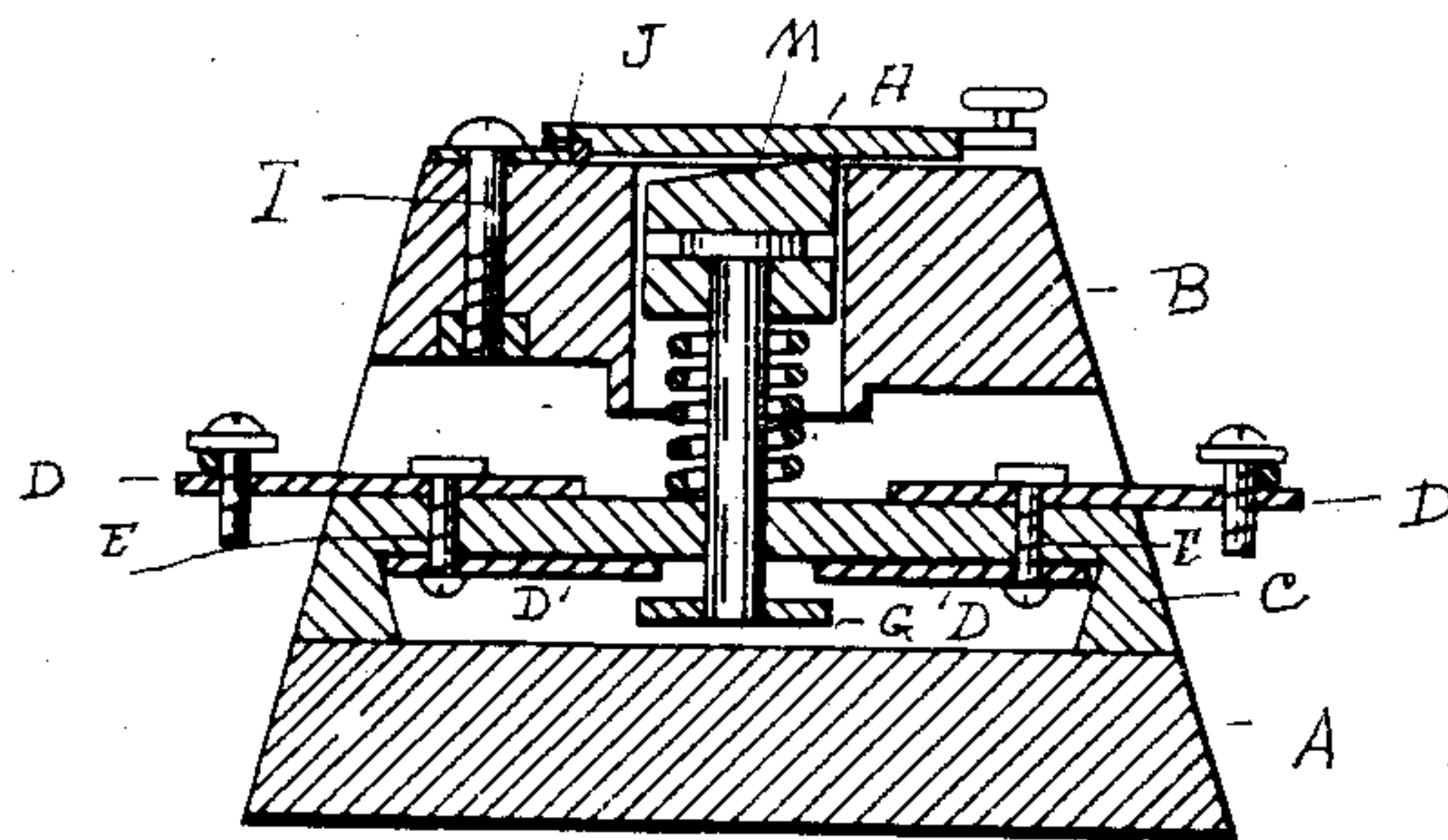


Fig. 1 -

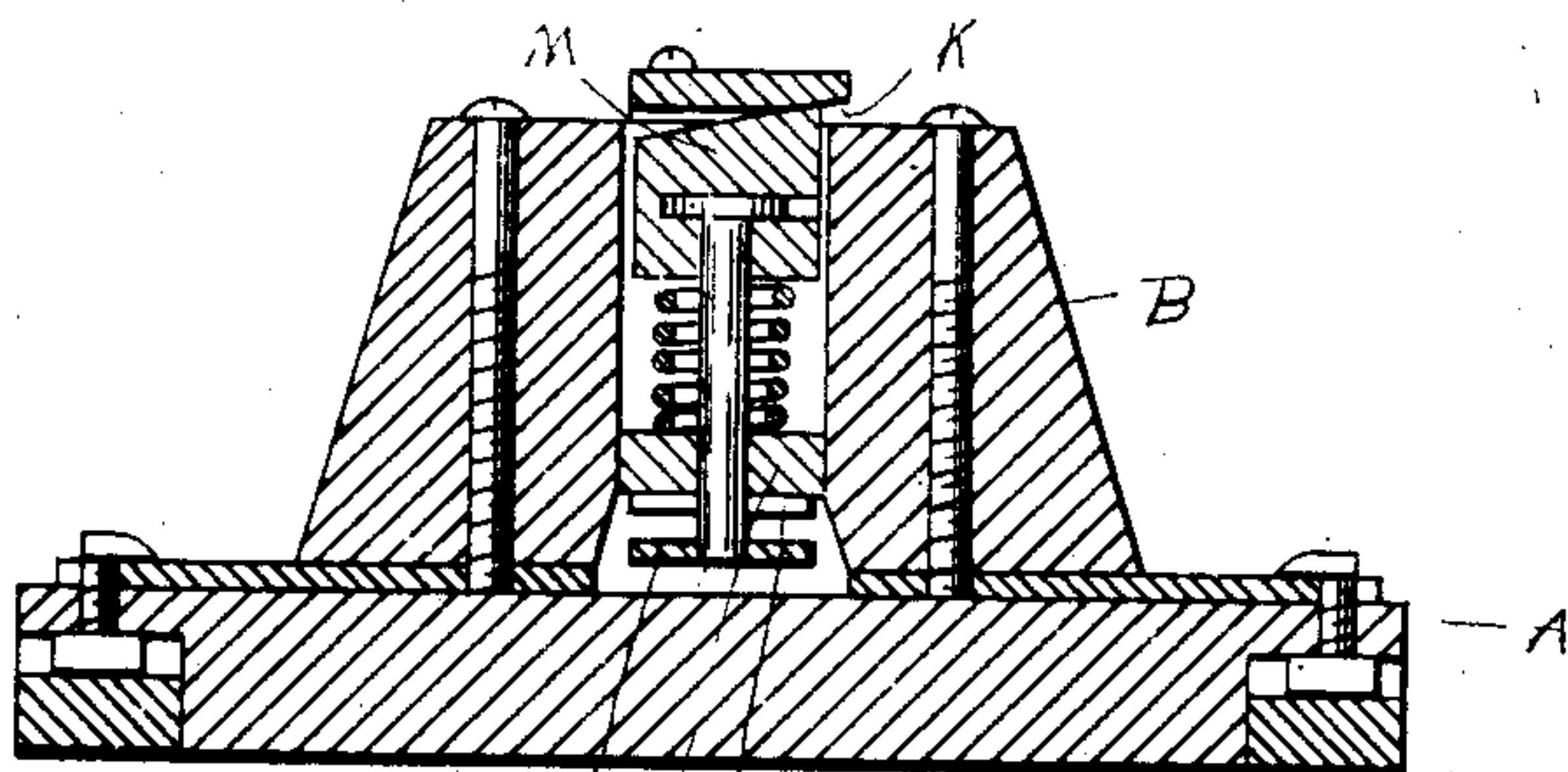


Fig. 2 -

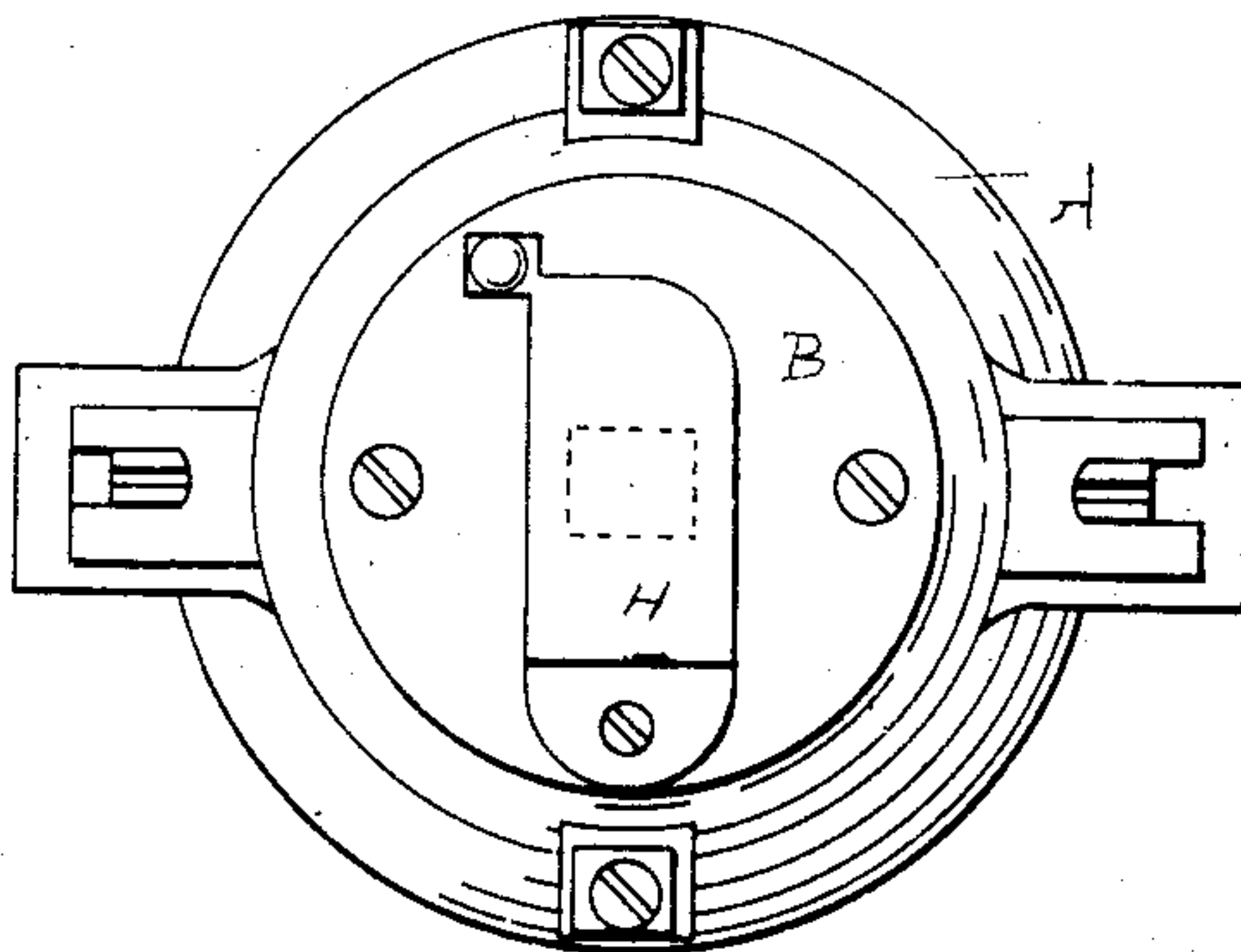


Fig. 3 -

WITNESSES -
Marion Richards,
Philip V. Clifford

INVENTOR -
Frank E. Austin
by Clifford Dennis Clifford
Attorneys.

UNITED STATES PATENT OFFICE.

FRANK E. AUSTIN, OF WESTBROOK, MAINE.

THERMOSTAT.

NO. 832,116.

Specification of Letters Patent.

Patented Oct. 2, 1906.

Application filed December 26, 1905. Serial No. 293,193.

To all whom it may concern:

Be it known that I, FRANK E. AUSTIN, a citizen of the United States, residing at Westbrook, in the county of Cumberland and State of Maine, have invented new and useful Improvements in Thermostats, of which the following is a specification.

The object of my invention is to produce a thermostat which is certain to operate in a given temperature, that is simple and inexpensive to construct, and readily adapted for any use for which a thermostat is desirable.

In the drawings herewith accompanying and making a part of this application, Figure 1 is a vertical section of my improved thermostat. Fig. 2 is a section of the same at right angles to the line on which Fig. 1 is taken, and Fig. 3 is a plan view.

In said drawings, A represents a base upon which is mounted a housing B, in which is disposed a cross-head C, having the two electrodes D D secured thereto in any convenient manner, as by bolts E. A spring-actuated circuit-closer G is held normally out of contact with said electrodes by means of latch H, mounted on the housing by a pivot I, said latch being made in two parts united by a connection J of some material fusible at any desired temperature. Said latch is adapted when in operative position to press down upon the spring-actuated circuit-closer G and hold it out of contact with the electrodes D D. The bottom face of the latch has a beveled edge, as seen at K, adapted to engage the top M of the circuit-closer and by wedging action force it downwardly to break the circuit when the latch is turned into engagement with the end of the circuit-closer. My improved thermostat is designed to be used in giving signals of any kind, either sound, light, or mechanical. It may be operated automatically or manually.

It is apparent from the drawings and description that whenever the temperature of the room in which the thermostat is situated rises sufficiently to fuse the connection between the parts of the latch separation takes place, that the end of the latch falls off and permits the spring to lift the circuit-closer into contact with the electrodes, thus ringing a bell, lighting a light, or operating a mechanical signal, as the case may be.

Having thus described my invention and its use, I claim—

1. A thermostat comprising a suitable housing, electrodes, a spring-actuated circuit-closer having its upper end projecting normally above the housing and a latch pivotally mounted on one end of said housing, its other end being free, said latch comprising two parts united by a fusible connection, said fusible connection when the latch is in normal position being between the pivot-point and said circuit-closer.

2. A thermostat comprising a suitable housing, electrodes, a spring-actuated circuit-closer having its upper end projecting normally above the housing and a latch pivotally mounted on said housing, said latch comprising two parts united by a fusible connection and having its bottom face beveled, said latch being adapted to be turned on its pivot into and out of the path of the projecting end of the circuit-closer.

In testimony whereof I have signed this specification, in presence of two subscribing witnesses, this 19th day of December, 1905.

FRANK E. AUSTIN.

In presence of—

ELGIN C. VERRILL,
MARION RICHARDS.