

(No Model.)

G. HILL.
THERMOSTAT.

No. 545,076.

Patented Aug. 27, 1895.

Fig. 1.

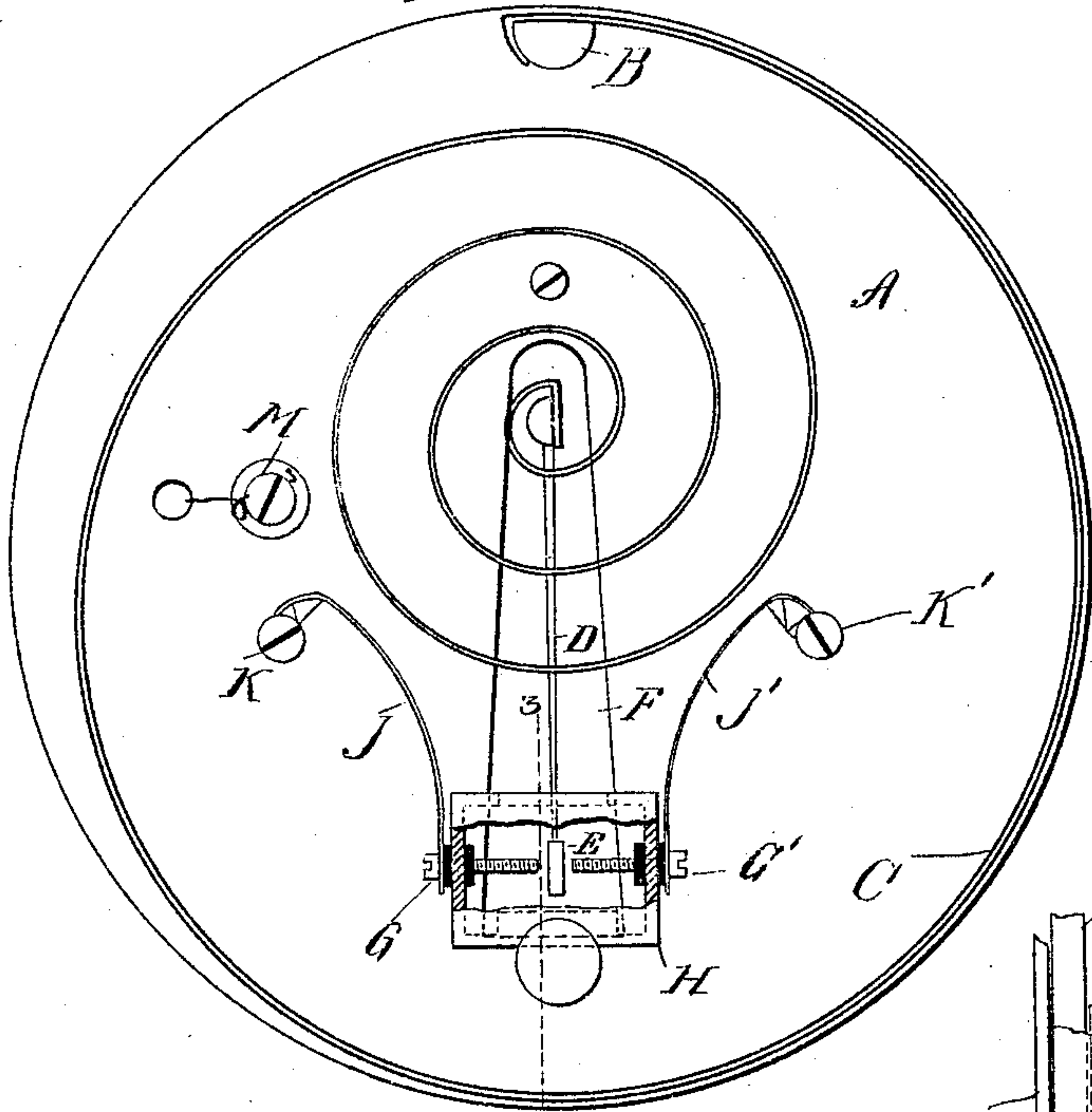
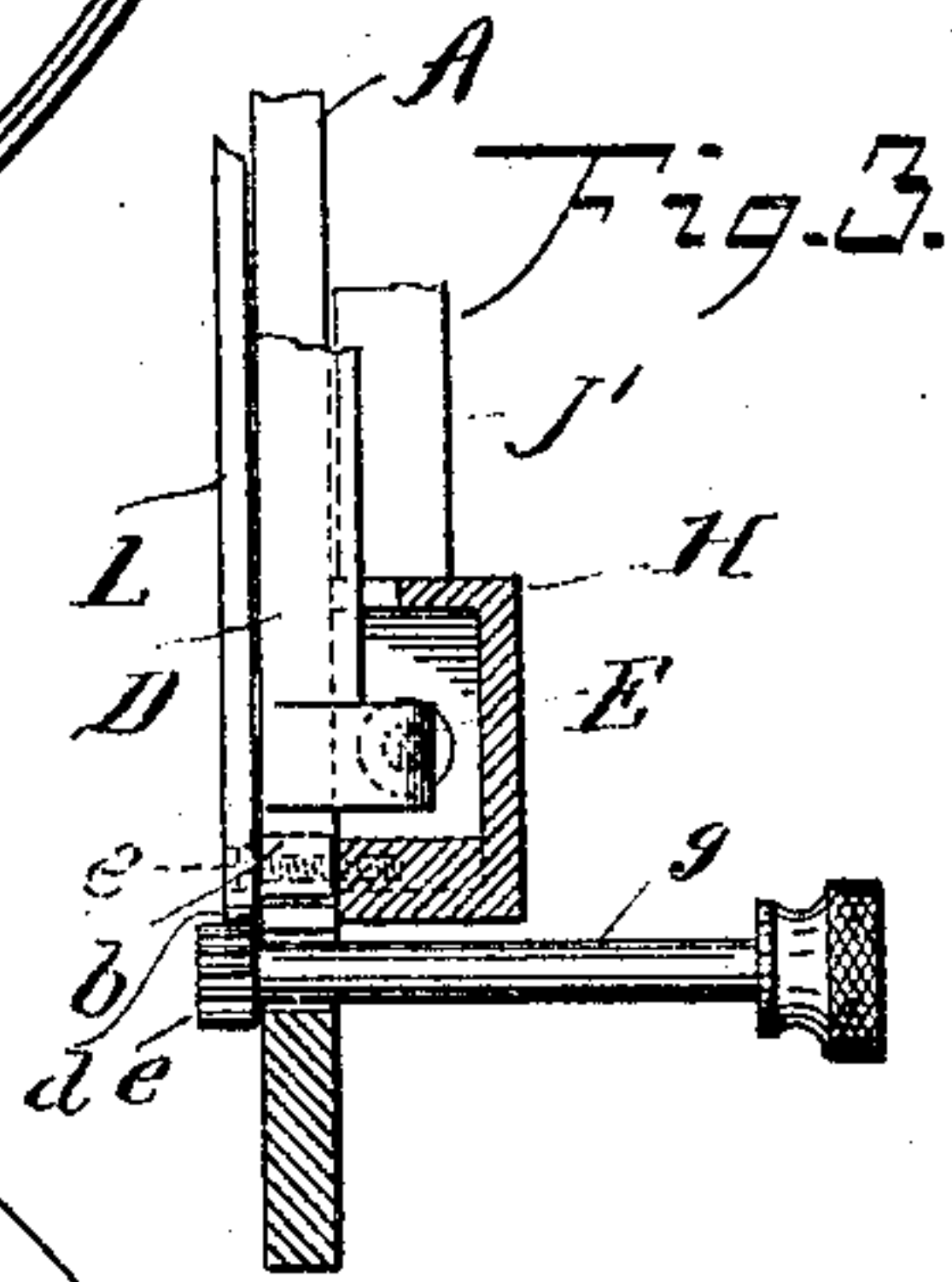
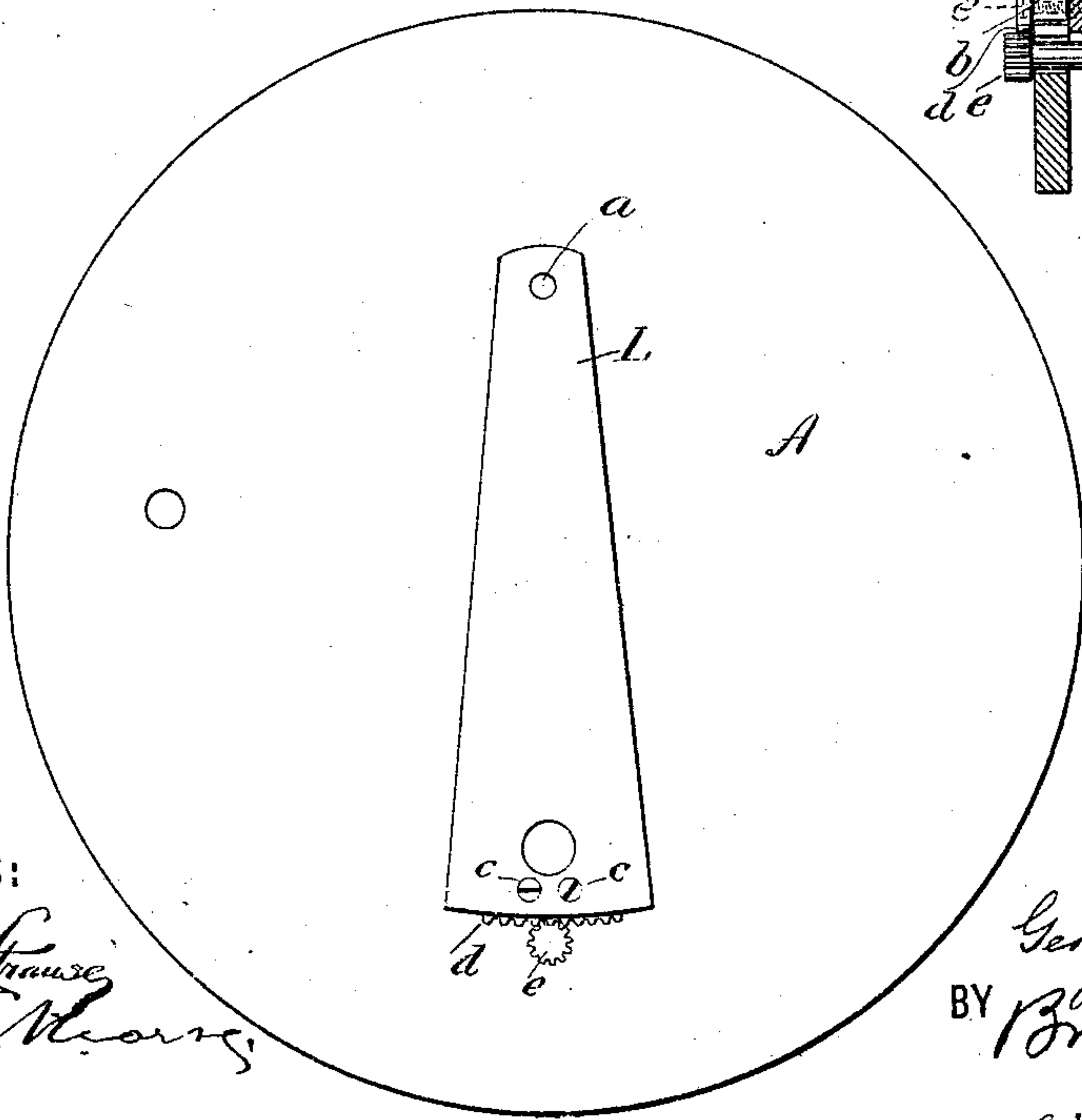


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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THERMOSTAT.

SPECIFICATION forming part of Letters Patent No. 545,076, dated August 27, 1895.

Application filed January 3, 1895. Serial No. 533,696. (No model.)

To all whom it may concern:

Be it known that I, GEORGE HILL, a resident of New Brunswick, Middlesex county, State of New Jersey, have invented certain
5 new and useful Improvements in Thermostats, of which the following is a specification.

My invention relates to thermostats, and has for its object to produce a simple and reliable thermostat which may be set for any
10 desired temperature within certain limits.

To this end my invention consists in the construction hereinafter set forth and claimed.

My invention will be understood by reference to the accompanying drawings, in
15 which—

Figure 1 is a face view of a thermostat embodying my invention. Fig. 2 is a rear view of the same, and Fig. 3 is a section on line 3
20 3 of Fig. 2.

In the drawings, A is a thermostat-plate which forms a support for the various operating parts. B is a post thereon, upon which is directly mounted a spiral thermostatic
25 strip, which may be of any desired construction, and to which is secured a contact strip or bar D, which terminates in the usual contact-piece E. This contact-strip D is housed in a perforation F of the thermostat-plate.

G G' are adjustable contacts, which are
30 mounted in the walls of a containing-box H and insulated therefrom.

J J' are resilient conductor-strips, which are in electrical connection with the contact-points G G', respectively, and are connected
35 to the binding-posts K K', which are mounted on the thermostat-plate A, but insulated therefrom.

L is a plate pivoted to the rear face of the thermostat-plate A by a pivot *a*. Secured to
40 this plate is a lug *b*, through which pass screws *c c*, which enter the wall of the box H, by which means the box H, carrying the contacts G G', is securely fastened to the pivoted plate L and moves therewith. The lower edge of
45 the plate L is toothed, as at *d*, and meshes with a pinion *e*, carried by a headed post *g*, which extends through the thermostat-plate and is supported thereby.

M is a bind-post which is in electrical con-

nection with the thermostat-plate A, with 50 which plate the thermostatic strip C is also in electrical connection.

The thermostat may be connected in circuit in any suitable manner, such, for instance, as by connecting a positive terminal 55 to the post K and a negative terminal to the post K', the third wire being connected to the post M to form a common return for the other two wires. It will be observed that the box H serves to protect the thermostat terminals 60 from dust and oxidation. It will also be noticed that by turning the post *g* the plate L may be swung on its pivot to adjust the box H and its contact-points in one direction or the other, and since the contact-points them- 65 selves are individually and independently adjustable a great range of adjustment is possible.

Having thus specifically described one form of my invention, I would have it understood 70 that I do not mean to thereby limit myself to the exact construction shown and described, as the device may be modified in various particulars without departing from the spirit of my invention; but 75

What I claim, and desire to secure by Letters Patent, is—

1. The combination of a thermostatic strip, a covering box, independently adjustable contacts carried thereby and means for adjust- 80 ing the box together with circuit connections, substantially as described.

2. The combination of a thermostatic strip, a covering box, independently adjustable contacts carried by the box and extending into 85 the same, a pivoted plate upon which the box is carried, and means for swinging the pivoted plate to adjust the position of the box, substantially as described.

3. In a thermostat, the combination of a 90 box carrying independently adjustable contacts which extend into the same, a thermostat strip having a contact bar which extends into the box and into operative relation with the contacts therein and means for adjusting 95 the position of the box, substantially as described.

4. The combination of a thermostat plate

A, a thermostatic strip C having a contact strip D, a box H into which the contact strip D extends, independently adjustable contacts carried by the box and extending into
5 the same, a pivoted plate L upon which the box is carried having a toothed portion d and a post g carrying a pinion meshing with the toothed portion d , substantially as described.

GEORGE HILL.

Witnesses:

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