

(Model.)

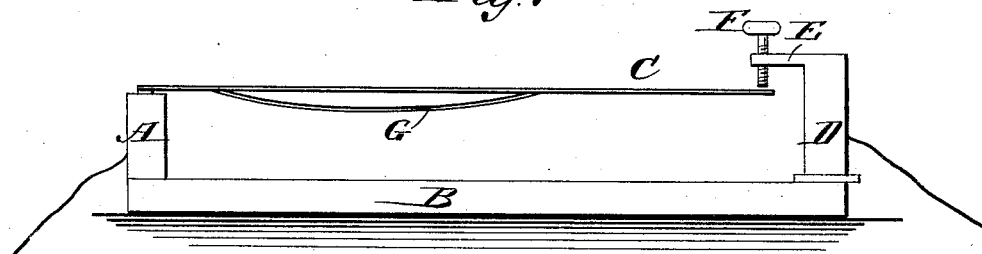
W. J. P. & G. L. KINGSLEY.

THERMOSTAT.

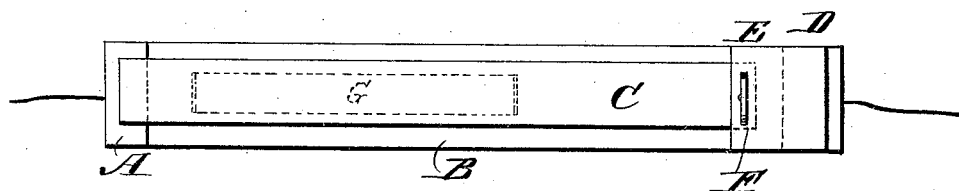
No. 303,862.

Patented Aug. 19, 1884.

*Fig. 1*



*Fig. 2*



WITNESSES:

*Francis McAvolle*  
*Co. Sedgwick*

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# UNITED STATES PATENT OFFICE.

WILLEY J. P. KINGSLEY AND GEORGE LYLE KINGSLEY, OF ROME, N. Y.

## THERMOSTAT.

SPECIFICATION forming part of Letters Patent No. 303,862, dated August 19, 1884.

Application filed March 6, 1884. (Model.)

*To all whom it may concern:*

Be it known that we, WILLEY J. P. KINGSLEY and GEORGE LYLE KINGSLEY, both of Rome, in the county of Oneida and State of New York, have invented a new and Improved Thermostat, of which the following is a full, clear, and exact description.

Our invention relates to the class of thermostats wherein two metals or other materials of different coefficients of expansion are employed to operate an electric circuit; and it consists in the peculiar construction and arrangement of parts, as hereinafter fully described, and pointed out in the claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side elevation of our improved thermostat, and Fig. 2 a plan view.

To a standard, A, fixed to the base B, is secured a straight bar, C, of iron or other material having a low coefficient of expansion, and extending parallel with the base toward the post D. The post D is insulated, and is provided with an arm, E, which extends over the free end of the bar C, and is furnished with a contact-screw, F, through which the electric circuit, of which the bar C forms a part, is completed.

To the under side of the bar C, near its fixed end, is secured a curved or straight bar, G, of brass or zinc or other material having a high rate of expansion. The ends of the curved bar are riveted, soldered, or otherwise secured

to the bar C, so that when it is affected by heat its superior expansive power will cause it to curve the bar C, so that it will touch the contact-screw F and complete the electric circuit, of which the said bar and screw form a part.

Our invention is designed for use wherever it is desired to operate an electric circuit by slight changes of temperature, it being adjusted to the required temperature by the screw F. It may also be used in connection with mechanical devices by connecting the free end of the bar C with the apparatus to be operated.

We are aware that it is not broadly new to use two metals of different coefficients of expansion to operate an electric circuit, and therefore do not claim such invention.

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

The combination, with the base B, provided with the standard A, and the post D, having the arm E, and the contact-screw in said arm, of the straight bar C, having a low rate of expansion, secured to the standard A, and having its free end projecting under the contact-screw, and the curved bar G, having a higher rate of expansion, secured to the bar C near its fixed end, substantially as herein shown and described.

WILLEY J. P. KINGSLEY.  
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Witnesses:

P. R. HUGGINS,  
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