

(No Model)

O. WIEDERHOLD.
THERMOSTAT.

No. 586,301.

Patented July 13, 1897.

Fig. 1.

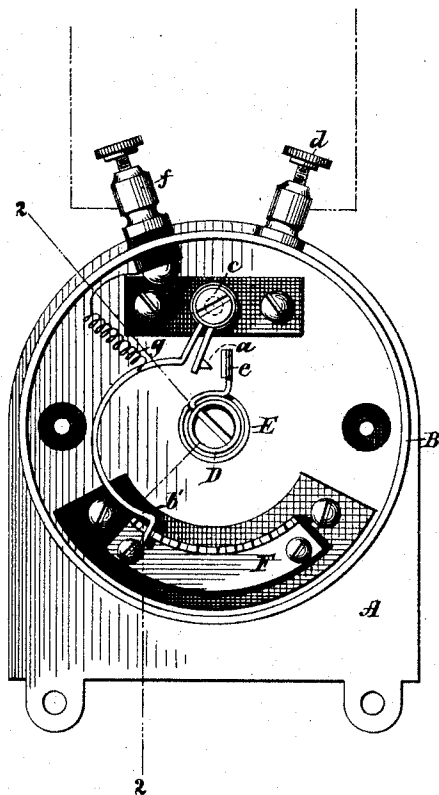
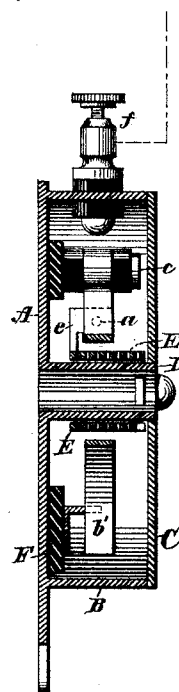


Fig. 2.



WITNESSES:

Gustave Dietrich
George Moore

INVENTOR

Oscar Wiederhold

BY *Brisson Knauth*

ATTORNEYS

UNITED STATES PATENT OFFICE.

OSCAR WIEDERHOLD, OF SUMMIT, NEW JERSEY.

THERMOSTAT.

SPECIFICATION forming part of Letters Patent No. 586,301, dated July 13, 1897.

Application filed November 14, 1896. Serial No. 612,056. (No model.)

To all whom it may concern:

Be it known that I, OSCAR WIEDERHOLD, a resident of Summit, Union county, State of New Jersey, have invented certain new and useful Improvements in Thermostats and Thermostatic Alarm Arrangements, of which the following is a specification.

My invention relates to thermostats and thermostatic alarm arrangements particularly applicable to dynamos and motors.

My invention will be understood by referring to the accompanying drawings, wherein I have illustrated a thermostat embodying my invention.

In the said accompanying drawings, Figure 1 illustrates in face view a thermostat with the face-plate removed and connected to an annunciator apparatus. Fig. 2 is a section on line 2 of Fig. 1.

In the drawings, A represents the back plate of the thermostat, B the side wall, and C the front plate thereof. Passing from the back to the front plate is a tube D. Coiled around the tube D and having one end inserted in the said tube, in order to perfect an electrical contact therewith, is a thermostatic coil E, having a contact *e* on its free end, which contact *e* is adapted to contact with a contact *a*, carried upon a contact-adjusting arm *b*, which passes around a post *c* in a loop, (so as to pivot the arm,) as will be clearly seen in Fig. 2, and having a handle *b'*, which enters notches in a scale F. The screw *c* and scale F are suitably secured to the back plate of the thermostat and insulated therefrom. By swinging the contact-adjusting arm *b* on its pivot the contact *a* may be brought near to or far away from the contact *e*, so as to regulate the instrument to close the circuit at a predetermined degree of heat. The thermostatic coil, as aforesaid, is electrically connected to the tube D, which forms part of the casing or walls of the instrument, to which

walls or one of them a binding-post *d* is electrically connected. Another binding-post *f* is mounted upon one of the walls of the instrument, but insulated from the said wall and connected by a wire *g* to the contact-adjusting arm *b*. The circuit through the instrument will be obvious without further description. These thermostats are especially adapted for use in locations where heated air flows, and are placed in such a position that the heated air will pass through the passage in the tube D, and as soon as this air becomes too highly heated the thermostatic coil E brings its terminal *e* against the terminal *a* and closing the circuit may give an alarm.

Having described my invention and the principle thereof and the best mode in which I contemplate applying that principle so as to distinguish it from other inventions, I declare that what I claim, and desire to secure by Letters Patent, is—

1. In a thermostat, the combination of a thermostatic coil E carrying a contact *e*, a contact-adjusting arm also carrying a contact and a notched scale receiving the contact-adjusting arm in the notches thereof and indicating the position of the said arm, whereby the thermostat may be set for a predetermined degree of heat.

2. The combination of an enveloping casing, a tube extending from side to side of the said casing and constituting the wall of a tubular passage through the thermostat, a thermostatic coil wholly contained within the said enveloping casing and closely surrounding the said tube and provided with a contact and a pivoted contact-arm within the casing and coöperating with the contact of the thermostatic coil.

OSCAR WIEDERHOLD.

Witnesses:

MAURICE BLOCK,
ISAAC A. LEVY.