

J. KROVETZ.
TEMPERATURE DEVICE.
APPLICATION FILED JULY 31, 1914.

1,123,556.

Patented Jan. 5, 1915.

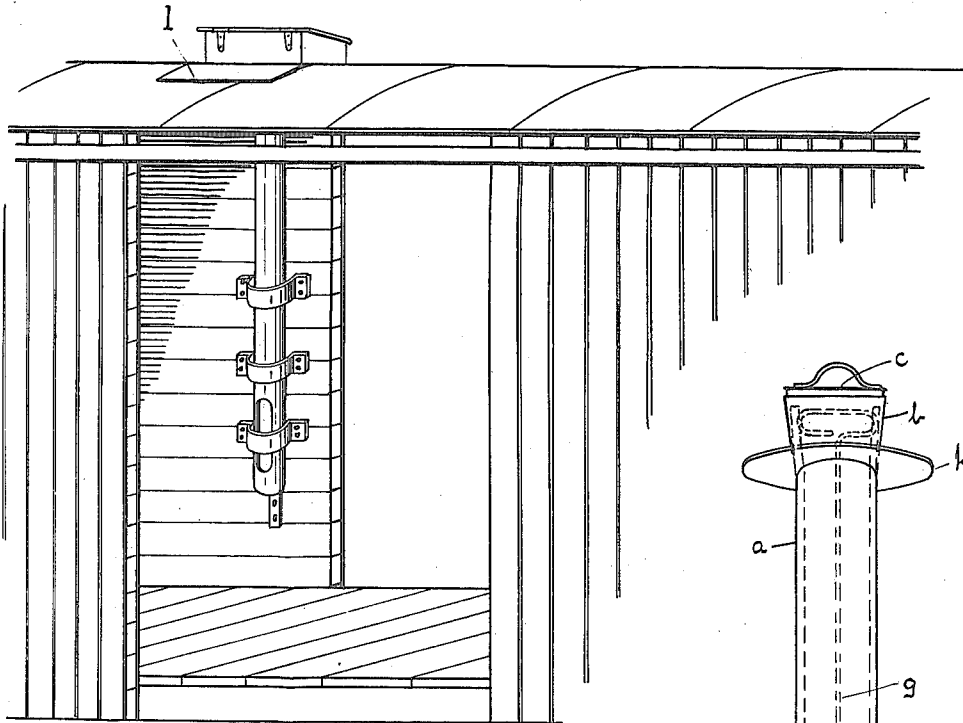


Fig 5.

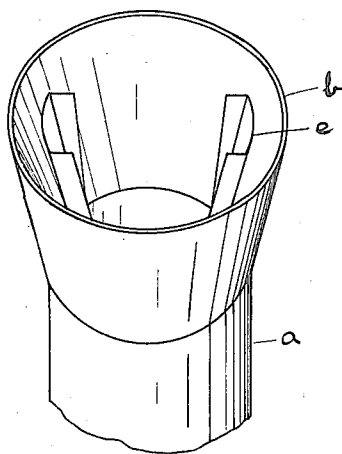


Fig 2.

WITNESSES:

Geo. B. Nicewonger
E. M. Gascoigne

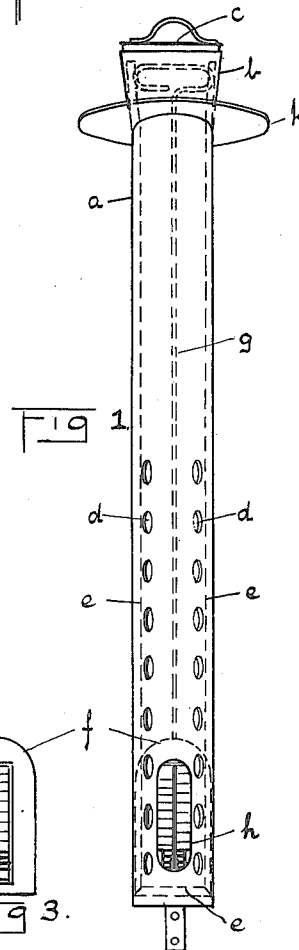


Fig 1

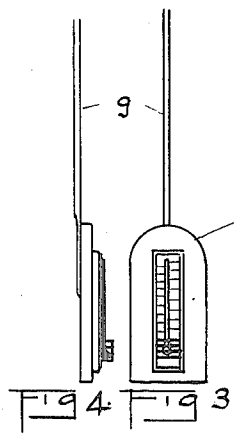


Fig 4

Fig 3.

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TEMPERATURE DEVICE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH KROVETZ, a citizen of the United States, and a resident of Elmira, in the county of Chemung and State of New York, have invented a new or Improved Temperature Device, of which the following is a full, clear, and exact description.

This invention has reference more particularly to a temperature device that might be installed in railroad refrigerator cars, in which perishable goods are stored with ice to keep the contents at a low and safe temperature while in transit, and one of the principal objects of the invention is to record the temperature of the inside of such cars, cold storage cars being otherwise sealed against this information, sometimes to the detriment of the contents.

A further object of the invention is to provide a device of the above character that can be installed so as to be easy of access for inspection or the reading of the temperature.

Other objects of the invention are to provide a device of the kind that shall be comparatively simple and inexpensive to manufacture, and one that shall be efficient and reliable in use.

Briefly state, I attain the above objects in a construction embodying a tube preferably made of metal, capped at its upper end, and perforated at its lower end. Channels or guides arranged on the inside of the tube, a thermometer mounted on a slide movable in the channels, and a rod attached to the slide.

This construction is more fully described further in this specification and in connection with the accompanying drawings in which—

Figure 1 is a complete assembly of my device. Fig. 2 is a perspective view of the upper end of the tube illustrating more clearly the arrangement of the channels therein. Fig. 3 is a view of the slide with thermometer attached. Fig. 4 is an edge or side view of the slide. Fig. 5 is a perspective view of the device as it may be installed in a refrigerator car.

Reference being had to Fig. 1 of the drawings, *a* designates the tube of my device, its upper end enlarged at *b*, and tapered to receive the close fitting cap *c*. The tube is perforated with large holes *d d* for the

lower half of its length. Channels *e* placed opposite run lengthwise inside and across the lower open end, the channels are also spread with the upper end of the tube (see Fig. 2) to afford easy access for the slide *f*; this slide I prefer to make of hard wood, the edges of which fit in the channels *e*.

A rod *g* is attached to the slide, and the upper end of the rod also engages and locks with the channels when the slide is in its normal position at the bottom of the tube, while large openings *h* amply expose the thermometer at this point.

A flange or collar is provided at *k* to fit even with the roof of a car as in Fig. 5 at 1, and it will thus be seen that the end of the tube projecting through the roof, is efficiently protected from the weather, while removal of the close fitting cap affords access to the thermometer exposed to the temperature inside.

The projecting end of the tube may be housed for protection as shown in Fig. 5, and guards placed to protect the tube on the inside wall of the car. The housing may be fitted with a lock, making the device inaccessible to any but those provided with a key for the purpose of inspection, and the cap at the end of the tube is preferably attached to the inside of the housing with a chain.

From the foregoing it will be seen that a device of the kind is applicable to ventilated cars, meat and fruit cars, refrigerator cars etc., and being of easy access obviates the breaking of seals and opening of doors, and while I have described my device in the preferred form, it will be understood of course, that I am not bound thereto precisely, but that I may resort to immaterial changes as for instance, the slide Fig. 3 may also be made of metal, the weather collar is arranged in Fig. 5 well over the center of the roof so that the direction of its pitch is away from the tube, also the method of fastening may vary, and the device itself is capable of being installed in any other part of a car as well as that shown, and that I may be permitted a latitude of variation in such details coming within the spirit and scope of my invention, which having thus described,

I claim:

A temperature device for refrigerator cars comprising a tube amply perforated at its lower end, channels attached and run-

ning lengthwise the inside of the tube, a
slide movably guided in the channels, a
thermometer mounted on the slide, a rod
attached to the slide to remove the latter
5 for inspection, a cap closing the end of the
tube, and a collar or weather strip attached
to and encircling the outside of the tube.

In testimony whereof I have signed my
name in the presence of two subscribing
witnesses.

JOSEPH KROVETZ.

Witnesses:

GEO. B. NICEWONGER,
E. M. GASCOIGNE.