J. J. WINSOR.

Car Heater.

No. 201,857. Patented March 26, 1878.

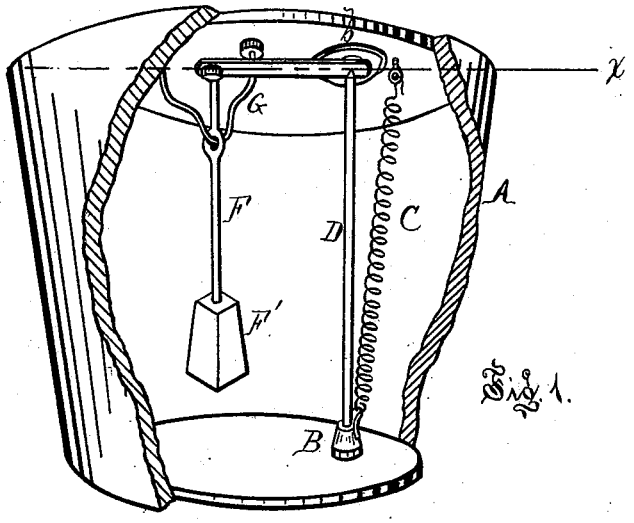

Fig. 1.

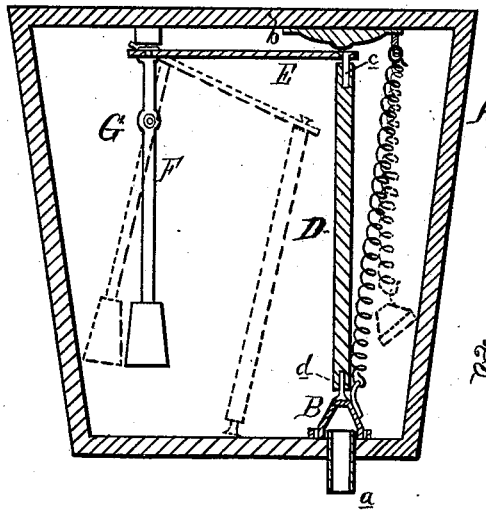

Fig. 2.

Attest:
H. L. Ames
Chas. J. Hunt

Inventor:
J. J. Winsor
By atty
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

JOHN J. WINSOR, OF EAST SAGINAW, MICHIGAN.

IMPROVEMENT IN CAR-HEATERS.

Specification forming part of Letters Patent No. **201,857**, dated March 26, 1878; application filed February 25, 1878.

To all whom it may concern:

Be it known that I, JOHN J. WINSOR, of East Saginaw, in the county of Saginaw and State of Michigan, have invented an Improvement in Devices for Extinguishing Fires in Car-Heaters, of which the following is a specification:

The object I have in view is to provide a car-stove or other heater with a superposed water-tank, connected with the interior thereof, and provided with mechanism that will, in the event of overturning the car, open a valve in the bottom of the tank, and allow the water to flow into the stove to extinguish the fire, thereby preventing it from burning the car in case of wreck.

Figure 1 is a perspective view, with parts of the walls of the tank broken away to show the internal devices in their normal condition. Fig. 2 is a vertical central section thereof, showing also in dotted outline the valve opened to discharge the water from the canting over of the tank.

In the drawing, A represents a tank, which may be placed directly over a stove or heater, or contiguous to it, but in every case above the fire, and communicating with the interior of the stove by means of a pipe, *a*, the mouth of which may be closed by a valve, B, which is lifted off its seat, when freed, by a spring, C. The valve is held to its seat by a strut, D, interposed between it and a bearing-plate, *b*, in the top of the tank. The strut has a pin, *c*, in its apex, over which is hooked one end of a tie-bar, E, which connects with the short arm of a pendulum-lever, F, pivoted on a hanger, G, and provided with a weight, F′, at its lower end, heavy enough, in case the car cants over, as in leaving the track, or from heavy impact, the result of a collision, to pull or push the strut away from the bearing-plate *b*, whereupon the spring C will pull the valve off its seat, and thus allow the water to run out through the pipe into the stove to extinguish the fire.

At the foot of the strut there is a temper-screw, *d*, to adjust the resistance of the strut to a lateral pull, which should be such as not to allow the valve to be freed from its seat under ordinary impact, or in ordinary oscillations of the car.

After the proper adjustments are made, the tank should be filled with water, and kept so, ready for emergency.

What I claim as my invention is—

As a means for extinguishing fires in stoves or heaters, the water-tank A, communicating with the interior of said stove or heater, the valve B, spring C, strut D, tie-bar E, and the weighted pendulum-bar F, hung in the hangers G, substantially as described.

JOHN J. WINSOR.

Witnesses:
H. F. EBERTS,
H. S. SPRAGUE.