Jan. 9, 1951 R. S. CARROLL 2,537,330

HEATER FOR OUTDOOR THEATERS

Filed Oct. 4, 1949 3 Sheets-Sheet 1

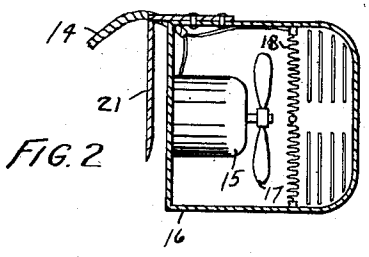


FIG. 2

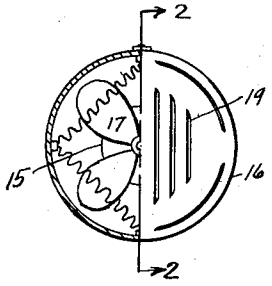


FIG. 3

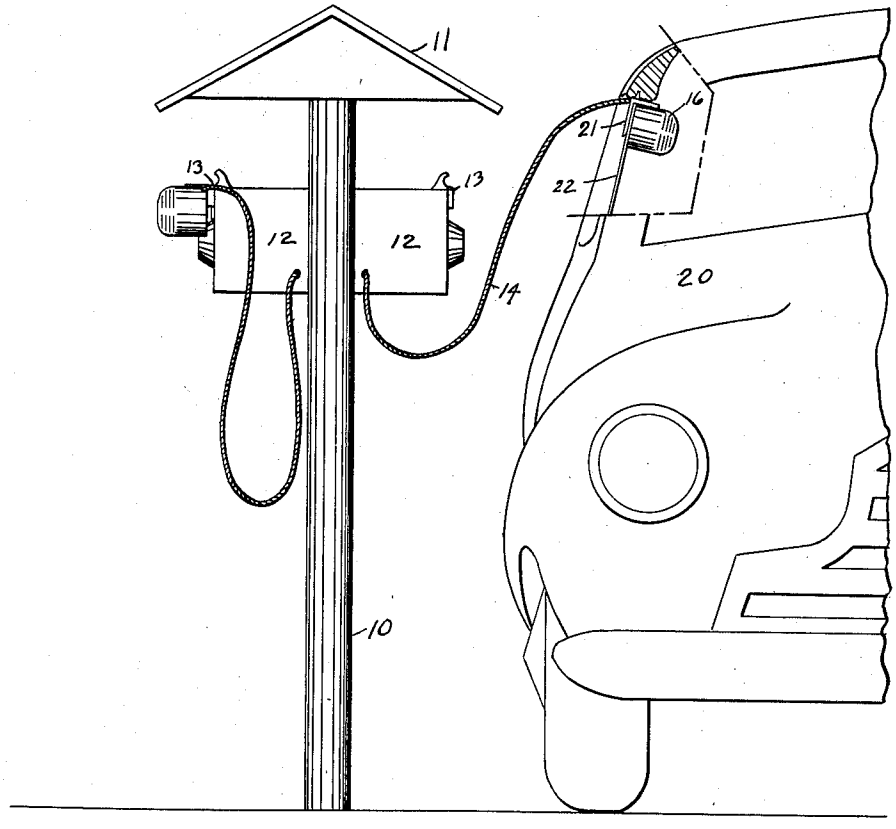


FIG. 1.

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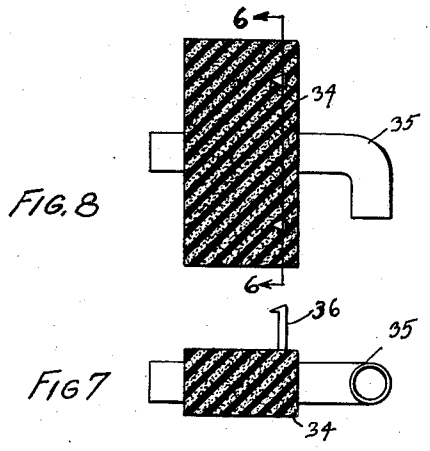


FIG. 8

FIG 7

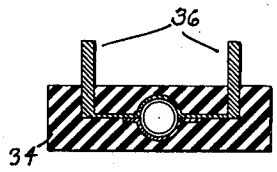


FIG. 6

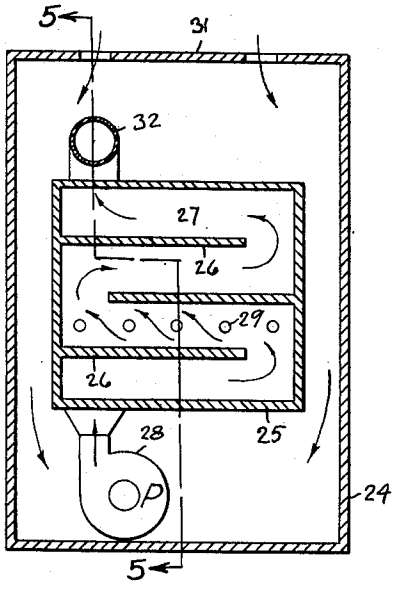


FIG. 4

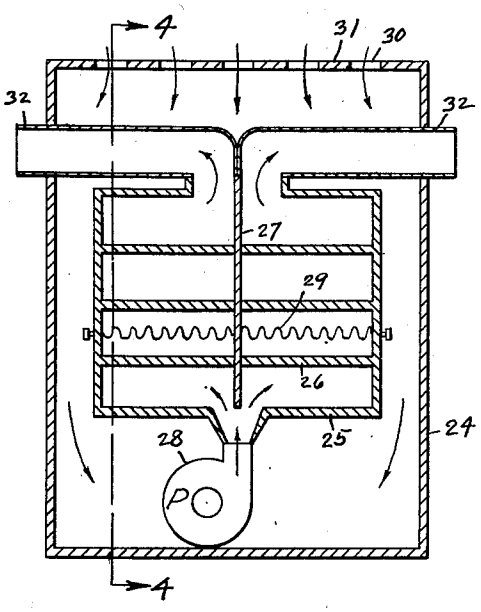


FIG. 5

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HEATER FOR OUTDOOR THEATERS

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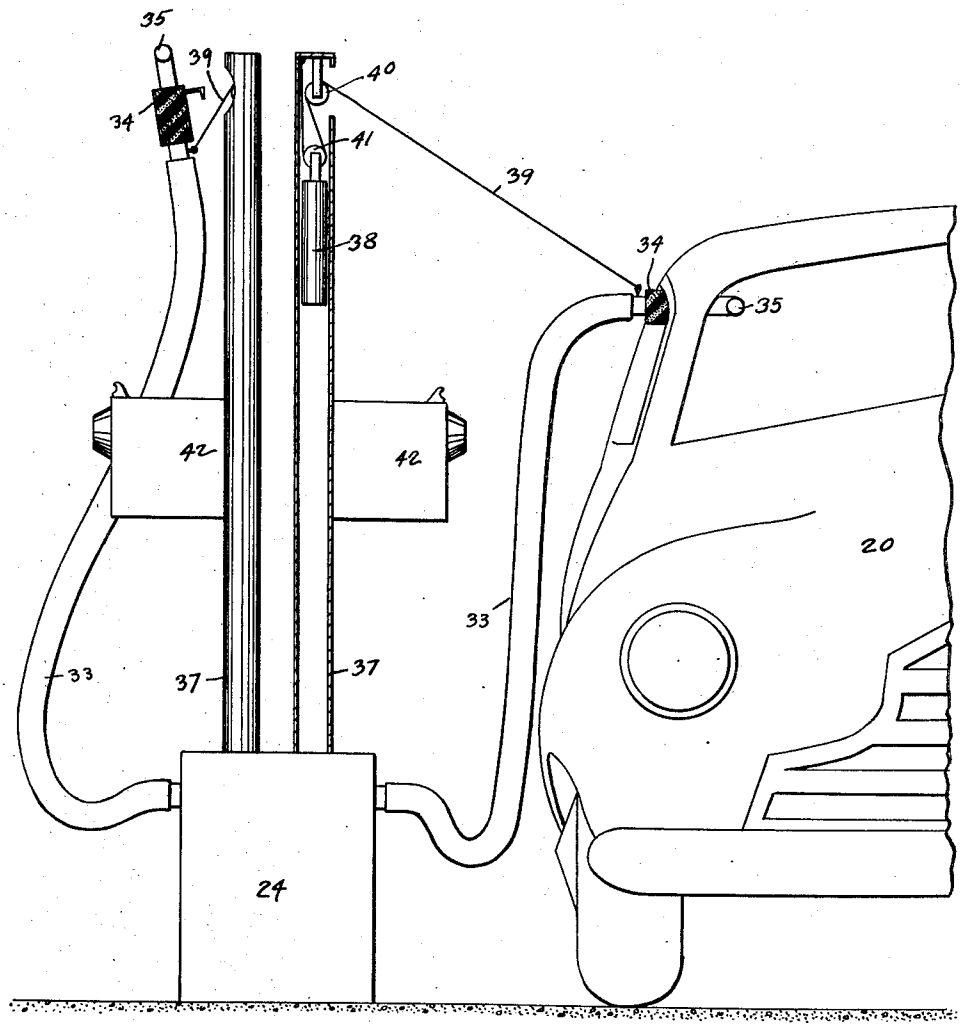


FIG. 9.

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Patented Jan. 9, 1951 2,537,330

UNITED STATES PATENT OFFICE

2,537,330

HEATER FOR OUTDOOR THEATERS

Raleigh S. Carroll, Lebanon, Oreg.

Application October 4, 1949, Serial No. 119,412

5 Claims. (Cl. 219—39)

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This invention relates generally to heating devices and particularly to a heater especially adapted for use in outdoor theaters.

The main object of this invention is to provide a special form of heater whereby patrons of outdoor theaters may be kept comfortable at subnormal outdoor temperatures.

The second object is to provide a form of equipment which can be coin controlled and which can be operated with a minimum initial investment for equipment.

These and other objects are accomplished in the manner set forth in the following specifications as illustrated by the accompanying drawings, in which:

Fig. 1 is a fragmentary elevation of a modified form of the device showing the relation of the device to an automobile in which a small fan unit is used drawing air by means of a small motor-driven fan under the control of a coin and delivering it to the interior of the patron's automobile. Portion of the car is broken away in section.

Fig. 2 is a section taken along the line 2—2 in Fig. 3.

Fig. 3 is an end elevation of Fig. 2 with portion broken away in section.

Fig. 4 is a section taken along the line 4—4 in Fig. 5.

Fig. 5 is a section taken along the line 5—5 in Fig. 4.

Fig. 6 is a section taken along the line 6—6 in Fig. 8.

Fig. 7 is a side elevation of Fig. 6.

Fig. 8 is a plan of Fig. 7.

Fig. 9 is a fragmentary elevation showing the preferred form of the device, the details of which are shown in Figs. 4 to 8, inclusive, and showing one of the standards in vertical section.

Like numbers of reference refer to the same or similar parts throughout the several views.

Referring in detail to the drawing there is shown in Figs. 1–3, inclusive, a tubular standard 10 having mounted on its upper end a water shedding roof 11, beneath which are mounted a pair of coin controlled switch boxes 12 having coin inlets 13 and flexible conductor cords 14, through which electric current can be supplied to the fan motor 15 within the casing 16. A fan 17 carries air past the heating elements 18 through the louvres 19 into the automobile 20.

The casing is provided with a hook 21 by means of which the heater may be supported on the door glass 22 or other object.

In this form of the device, it is only necessary

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to place a coin in the box inlet 13 which closes a switch (not shown) energizing the heater 18 and carrying the heat therefrom by the fan 17 into the interior of the automobile 20.

Standards 10 are in many instances already employed for loud speaking equipment so that the coin controlled box 12 and heater casing 16 are all that is needed to complete a unit. Two units are mounted on each standard.

In the form of the device shown in Figs. 4–9, inclusive, there is shown a box-like base 24 which serves as a casing within which is mounted a heater box 25 having a plurality of horizontal baffles 26 and a dividing partition 27. A fan 28 within the casing 24 supplies air to both sides of the partition 27.

Resistance elements 29 extend across the spaces between the baffles 26. Air inlet openings 30 are formed in the top 31.

Outlet ducts 32 connect the heater box 25 with the hose line 33 on the ends of which are the insulating blocks 34, through which extend the elbows 35 which are connected to the hose lines 33.

Hooks 36 are imbedded in the blocks 34 and hold the blocks 34 in place upon the window glass 22.

Mounted on the base 24 are the two tubular standards 37, within each standard 37 is a slidable weight 38 which is supported by a line 39 passing around the pulley 40 on the standard 37 and the pulley 41 on the weight 38 to an anchor on the standard 37. The line 39 is attached to the elbow 35 and the weight 38 is large enough to sustain the weight of the hose 33 and draw the elbow up to a stored position as shown at the left of Fig. 9 or permit its use as shown at the right of the same figure.

Coin controlled boxes 42 are mounted on the standards 37 and these contain coin controlled switches which close a heater operating circuit to the fan.

I claim:

1. A car heater for use at drive-in theaters, consisting of a base having an upright standard mounted thereon, a heating element mounted in said base, a flexible conduit opening into said base and a nozzle on said conduit having hooks thereon for engaging the window of a car and a counter-balanced cord mounted at the top of said standard attached to the discharge end of said nozzle whereby said nozzle will be drawn to the upper end of said standard when released from the window of an automobile.

2. The device as described in claim 1 charac-

terized by having a coin controlled means for energizing said heater.

3. The device described in claim 1 characterized by having a counter-weighted cable mounted in the upper end of said standard attached to the discharge end of said conduit.

4. A device of the class described consisting of a base having a pair of upright tubular standards mounted thereon, each of said standards having a weight slidably mounted therein, a pulley attached to each weight, a second pulley attached to the top of said standard, a cable anchored to the top of said standard passing around both of said pulleys, a heating element mounted in said base, a fan for circulating air past said heating element, a baffled heater casing within said base, an air outlet duct leading from said casing, a nozzle mounted on said outlet duct having hooks thereon for engaging the window of an automobile and a cord attached to the nozzle end of said conduit.

5. A device of the class described consisting of a base having a pair of upright tubular standards mounted thereon, each of said standards having a weight slidably mounted therein, a pulley attached to each weight, a second pulley attached to the top of said standard, a cable anchored to the top of said standard passing around both of said pulleys, a heating element mounted in said base, a fan for circulating air past said heating element, a baffled heater casing within said base, an air outlet duct leading from said casing, a nozzle mounted on said outlet duct having hooks thereon for engaging the window of an automobile and a cord attached to the nozzle end of said conduit, and a control means for actuating said heater.

RALEIGH S. CARROLL.

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The following references are of record in the file of this patent:

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