

Oct. 24, 1944.

R. L. LEIGH

2,360,952

AIR REGISTER

Filed March 20, 1944

2 Sheets-Sheet 1

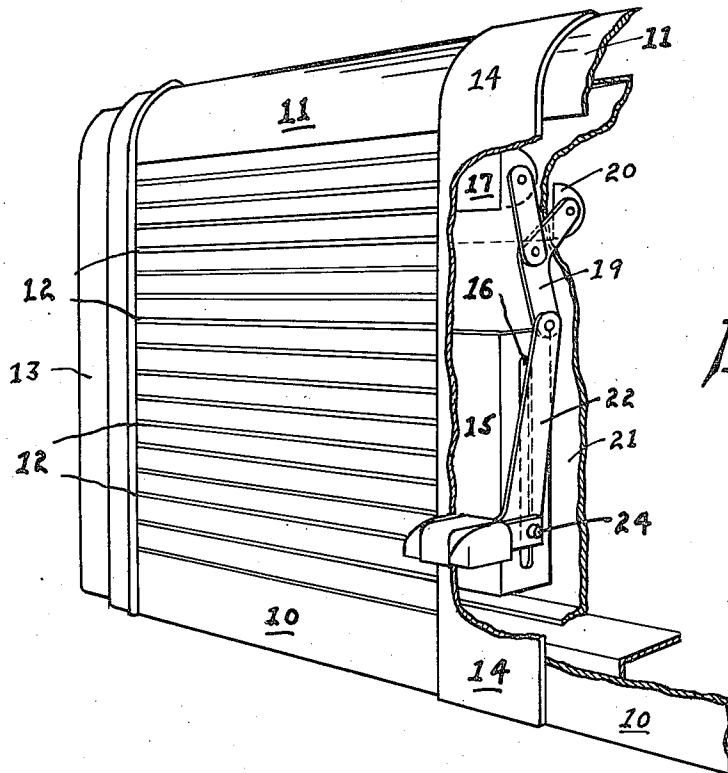


Fig. 1

Witness:
Geo L. Chapin

Robert L. Leigh Inventor

Rice and Rice

Attorneys

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2 Sheets-Sheet 2

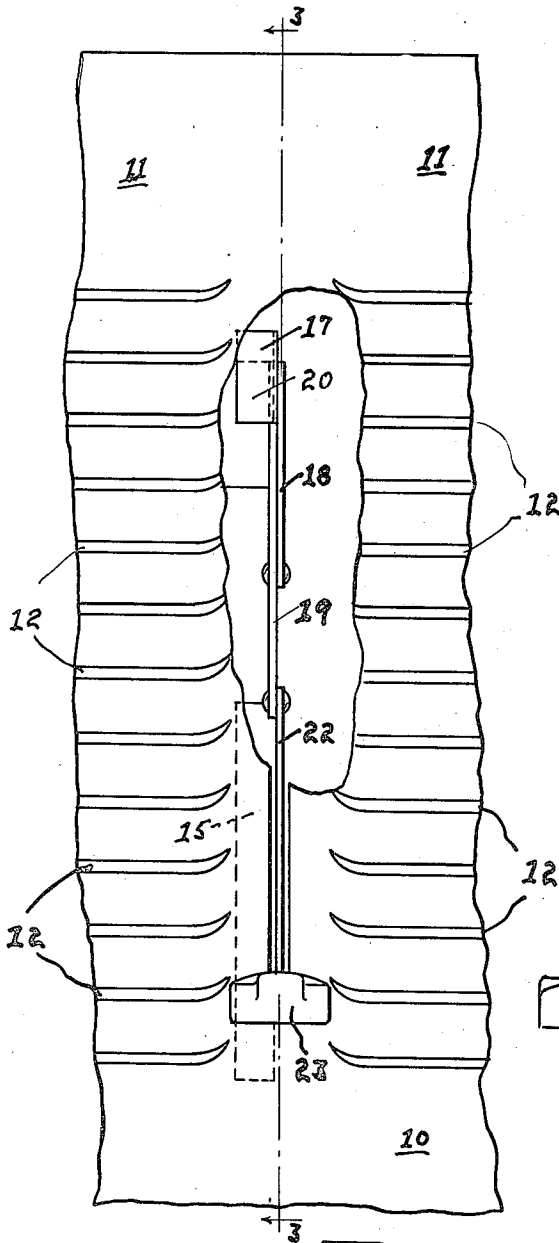


Fig. 2

Witness:
Geo. L. Chapel

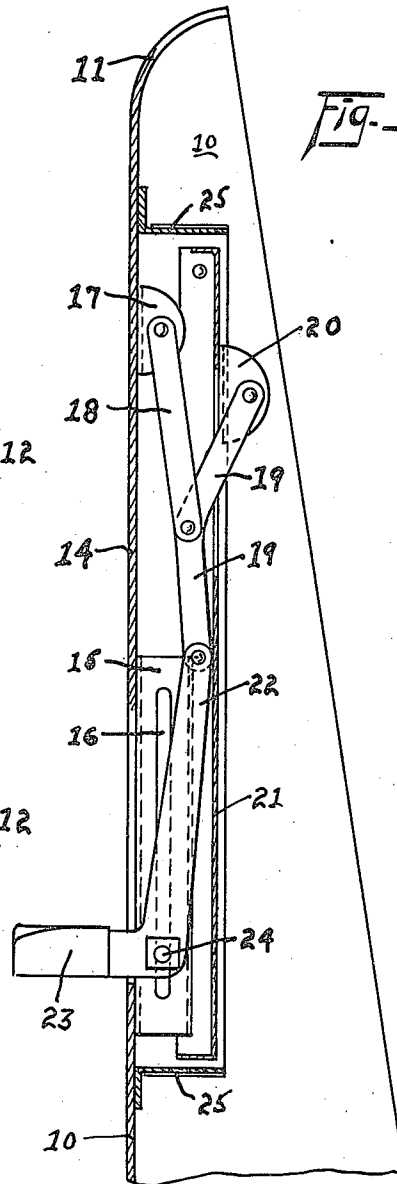


Fig. 3

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UNITED STATES PATENT OFFICE

2,360,952

AIR REGISTER

Robert L. Leigh, Grand Rapids, Mich., assignor
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Application March 20, 1944, Serial No. 527,333

1 Claim. (Cl. 98—106)

The present invention relates to air registers and more particularly to pedally operated air registers or dampers.

The primary objects of the instant invention are to provide a device of the general character above indicated whereby the valve of a base-board register or damper may be pedally rather than manually operated; to provide such a device whose pedal is disposed adjacent the lower portion of the register or damper; to provide such a device whose pedal is vertically movable; to provide such a device having a plurality of articulated links operable by the pedal for opening and closing the valve; and, to provide such a device which is simple in construction, is readily and conveniently actuated and which is reasonably economical in manufacture.

An illustrative embodiment of the invention is shown in the accompanying drawings, wherein—

Figure 1 is a fragmentary perspective view of the register or damper partly broken away to show its operating mechanism;

Figure 2 is a fragmentary front elevational view thereof; and

Figure 3 is a sectional view on line 3—3 of Figure 2.

Referring then to the drawings wherein like parts of the device shown are designated by the same numerals in the several views, the pedally operable valve of the register or damper there shown and which is adapted for disposition adjacent an air vent, comprises a shell of sheet metal or the like generally designated 10, having an arcuate head 11, the face of which shell is provided with a plurality of horizontally disposed louvers 12 for emitting air from the air vent, not shown.

The opposite ends of the shell 10 are each provided with a vertically disposed finishing member 13 of sheet metal or the like and medially of the shell is a vertically disposed member 14 separating the register or damper into two halves and hiding the articulated pedally operable articulated linkage.

Secured to the inner side of the member 14 as by spot welding is an angle sheet metal member 15 provided with a vertically disposed slot 16 and likewise secured to the inner side of the member 14, preferably in the same manner is an angle sheet metal bracket 17, all as best shown in Figures 1 and 3.

A link 18, pivotally connected at its upper end to the bracket 17 is connected to a bell crank lever 19 medially thereof, the upper end of which bell crank lever is pivotally connected to a sheet metal bracket 200 secured to the inner side of a swingable valve 21 and the lower end of which is pivotally connected to the upper end of a link 22 provided at its lower end with an angularly disposed pedal 23.

The link 22 at the inner end of its pedal 23 is provided with a transverse pin having an end thereof disposed within the vertical slot 16 whereby elevation of the pedal 23 from its position shown will swing the valve 21 from its closed position inwardly and thereby permit a flow of air from the vent through the louvers 12 and depressing of the pedal 23 to its position shown will effect a closure of the valve 21, preventing a flow of air from the vent through the louvers, the housing 25 secured to the inner side of the shell 10 providing an air seal when the valve is closed.

It will thus be seen that the pedally operable register or damper is simple in construction, may be readily and conveniently actuated and is reasonably economical in manufacture, and while but one specific embodiment of the invention has been herein shown and described, it will be understood that certain details of the construction shown may be altered or omitted without departing from the spirit of the invention as the same is defined by the following claim.

I claim:

A device of the class described comprising a shell adapted for disposition adjacent an air vent and provided with a plurality of louvers, said shell having a bracket secured thereto on its inner side and having a member secured on its inner side provided with a vertically disposed slot, a valve member disposed rearwardly of said shell provided with a bracket, a bell crank lever pivotally connected to said second bracket, a link pivotally connected to the other end of said lever provided at its other end with a pedal disposed forwardly of said shell and having a pin disposed within said slot, and a link secured to said first bracket at one end thereof and to the bell crank lever at its other end whereby the valve may be opened or closed by the vertical movement of the pedal.

ROBERT L. LEIGH.