Jan. 12, 1932. W. J. CONNELL 1,840,488

DEVICE FOR THAWING MANIFOLDS

Filed March 8, 1930

Fig. 1.

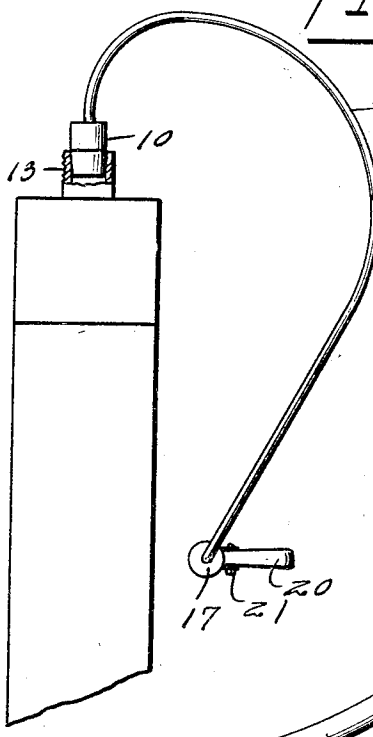
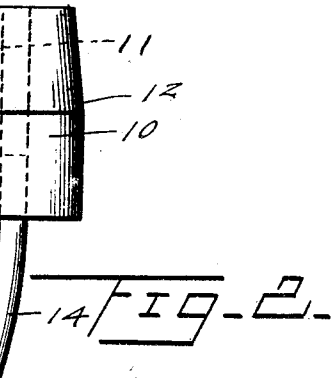


Fig. 2.



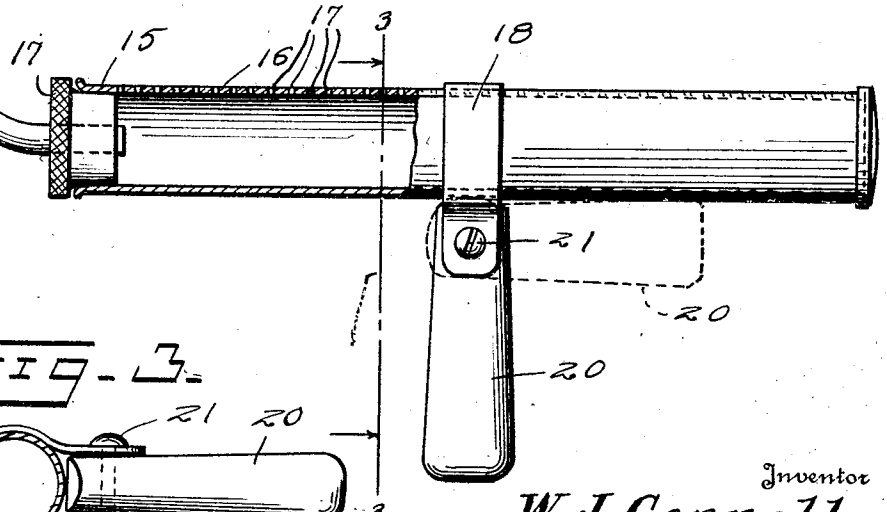
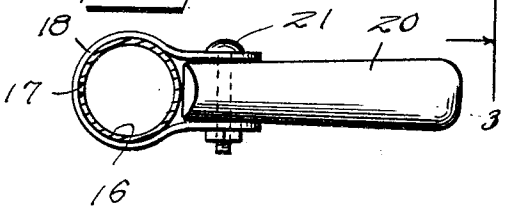


Fig. 3.



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UNITED STATES PATENT OFFICE

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DEVICE FOR THAWING MANIFOLDS

Application filed March 8, 1930. Serial No. 434,412.

This invention relates to devices for thawing the radiators of automobiles and particularly that class of devices in which the thawing element takes steam from the interior of the radiator and discharges the steam against the exterior of the radiator.

The general object of my invention is to provide a very simple and effective device for this purpose which includes a plug designed to be placed in the opening of the radiator after the cap is removed therefrom, and which is connected by a flexible conduit to a manifold having a plurality of discharge openings and having a handle, the manifold having a length approximately equal to the width of a radiator so that steam will be discharged across the whole front of a radiator, the manifold having a handle whereby it may be moved up and down to thereby bring the jets of steam over the entire surface of the radiator.

Other objects will appear in the course of the following description.

My invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a fragmentary end elevation of a radiator showing my attachment applied;

Figure 2 is an elevation partly in section of my thawing attachment;

Figure 3 is a section on the line 3—3 of Figure 2.

Referring to the drawings, 10 designates a cork or plug which may be of any suitable material and which is formed with a central opening 11. The exterior face of this plug is tapered in two directions from the middle of the plug as at 12, one of these tapers being of a greater angle than the other so that either end of the plug may be fitted within the radiator opening 13, which end of the plug is used, depending upon the diameter of the radiator opening.

Engaged with the plug is a flexible hose 14 which may be made conveniently of rubber and may have any suitable length. This rubber hose has its end disposed within a head 15 in turn disposed within the end of a metal cylindrical manifold 16. The cap 17 of this manifold may be made capable of removal so as to remove the head 15 when desired for the replacement of the rubber hose. This manifold 16 is formed with a plurality of perforations 17 extending the full length of the manifold and spaced any desired distance from each other. Surrounding the middle of the manifold is a band 18 having ears 19 to which a handle 20 is pivoted as at 21 by means of a bolt or other suitable device. Thus the handle may be turned up into parallel relation to the manifold 16 or at an angle thereto.

In the use of this device, the plug 10 is inserted in the opening of the radiator from which steam is escaping due to the freezing of the radiator and then the manifold is moved up and down across the front of the radiator, the apertures 17 causing jets of steam to be projected against the exterior face of the radiator. By using a large cylinder for a manifold with many perforations, there will be practically no back pressure on the steam escaping from the radiator itself and thus the steam will be ejected with considerable force from these plurality of openings and this will secure quick thawing of the radiator.

My device furnishes a large volume of steam at once and because of the fact that it secures a plurality of jets of steam, ejected from a manifold having a length approximately equal to the width of the radiator, the radiator may be quickly thawed.

I claim:—

A thawing device for automobile radiators including a steam manifold approximately cylindrical in cross section and having a relatively large capacity, the wall of the manifold having a plurality of discharge perforations arranged in line, one end of the manifold being open, a perforated plug fitting

this end of the manifold whereby the manifold may be connected to a source of steam, a band embracing the manifold and a handle pivoted to the band for oscillation into or out of parallel relation to the manifold and a pivot bolt connecting the handle to the band whereby when the pivot bolt is removed, the band may be shifted longitudinally along the manifold to any desired position to again clamp thereon.

In testimony whereof I hereunto affix my signature.

WILLIAM J. CONNELL.