March 12, 1940. A. JAGMIN 2,193,777

GAS MIXING DEVICE

Filed Aug. 13, 1938

Fig. 1.

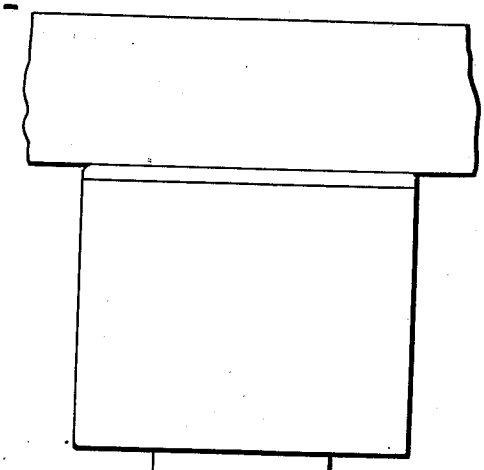


Fig. 2.

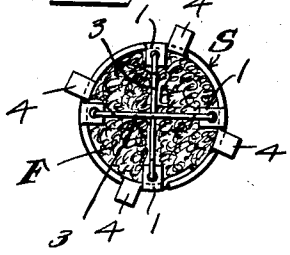


Fig. 3.

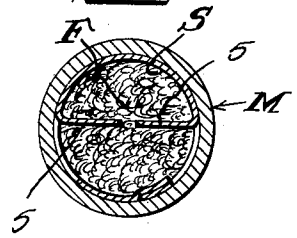
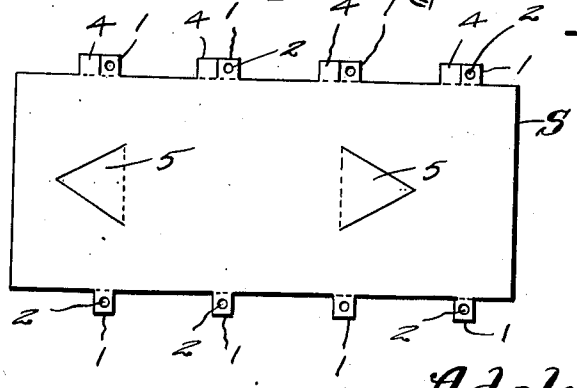


Fig. 4.



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2,193,777

GAS MIXING DEVICE

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Application August 13, 1938, Serial No. 224,824

2 Claims. (Cl. 48—180)

This invention relates to a gas mixing device, and it is an object of the invention to provide a device of this kind which can be readily and conveniently mounted and held within the intake manifold of an internal combustion engine.

It is also an object of the invention to provide an attachment of this kind which includes a sleeve for placement within the intake manifold of an internal combustion engine and which sleeve is provided with a filler of steel wool and wherein means are provided for effectively maintaining said filler in place and also to prevent the wool from lumping.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved gas mixing device whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawing, wherein:

Figure 1 is a view of somewhat a diagrammatic character illustrating a device constructed in accordance with an embodiment of my invention in applied position;

Figure 2 is a view in top plan of my improved device unapplied;

Figure 3 is a sectional view taken substantially on the line 3—3 of Figure 1;

Figure 4 is a view in plan of the sleeve in blank form.

As disclosed in the accompanying drawing, my improved device comprises a sleeve S formed from a single blank of material as illustrated in Figure 4, and which sleeve is of desired length and of a diameter sufficiently large to be snugly received within the intake manifold M of an internal combustion engine.

As is illustrated in Figure 4, the sleeve S is initially produced from a rectangular sheet of metal of desired dimensions and which is provided along its longitudinal margin with the outstanding lugs 1 which, in the assembled sleeve, are disposed inwardly of the sleeve. These lugs 1 are so arranged that in the complete sleeve said lugs are diametrically opposed at each end. These lugs 1 are provided with the perforations 2 so that the holding wires 3 may be effectively engaged therewith.

As illustrated in Figures 1 and 2 these wires 3 are disposed radially across the sleeve S at each end and serve to maintain the sleeve in desired formation and at the same time retain within the sleeve the filler F of steel wool. One longitudinal margin of the blank from which the sleeve S is formed immediately adjacent to the lugs 1 is provided with the additional lugs 4 which, in the completed device, are disposed outwardly as particularly illustrated in Figures 2 and 3 and which lugs 4 are clamped between the meeting ends of the line sections of the manifold as clearly illustrated in Figure 1.

The blank closely adjacent to the opposite ends thereof has struck therefrom the relatively large prongs 5 which extend inwardly of the assembled sleeve and penetrate the filler F. These prongs 5 provide means to prevent lumping of the filler F.

From the foregoing description it is thought to be obvious that a gas mixing device constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

1. A device for placement within the intake manifold of an internal combustion engine comprising a sleeve formed from a single blank of material, inwardly disposed lugs carried by the opposite ends of the sleeve, holding wires secured to said lugs and extending across the opposite ends of the sleeve, said wires at each end of the sleeve being in crossed relation, a filler of steel wool within the sleeve, and prongs struck from the blank and extending inwardly of the sleeve at substantially diametrically opposed points to engage within the filler to hold the filler from lumping, said prongs being of considerable size and extending substantially to the center of the sleeve.

2. A device for placement within the intake manifold of an internal combustion engine comprising a sleeve formed from a single blank of material, inwardly disposed lugs carried by the opposite ends of the sleeve, holding wires secured to said lugs and extending across the opposite ends of the sleeve, said wires at each end of the sleeve being in crossed relation, a filler of steel

wool within the sleeve, and prongs struck from the blank and extending inwardly of the sleeve at substantially diametrically opposed points to engage within the filler to hold the filler from lumping, said prongs being of considerable size and extending substantially to the center of the sleeve, and outwardly disposed lugs carried by one end of the sleeve to engage between the meeting ends of adjacent line sections of the manifold for holding the sleeve in applied position.

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