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RESILIENT MOUNTING BRACKET

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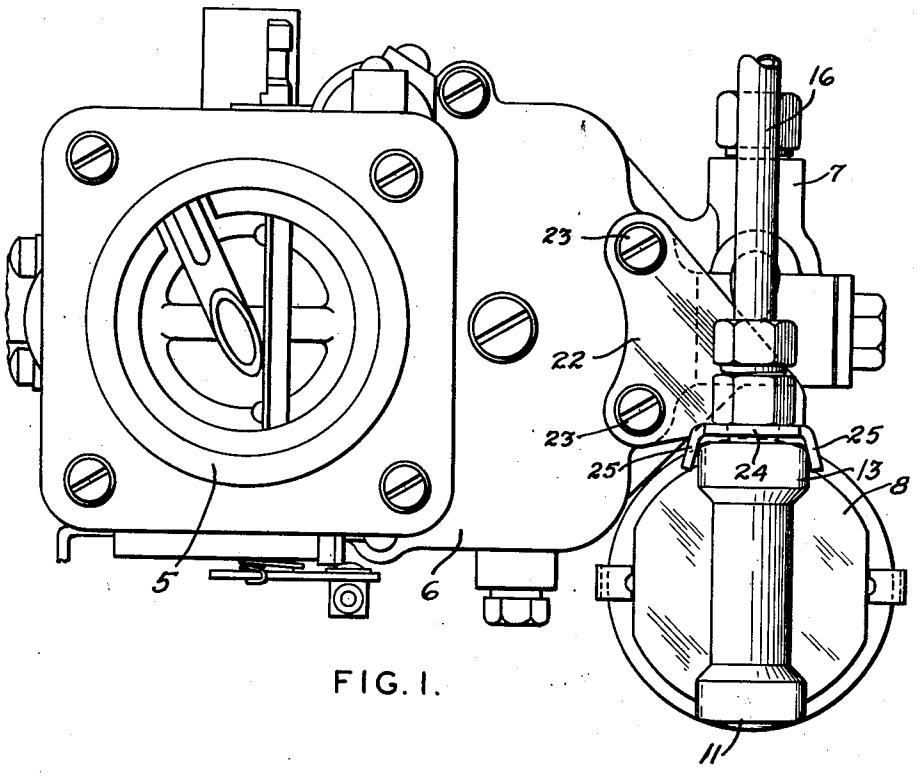


FIG. 1.

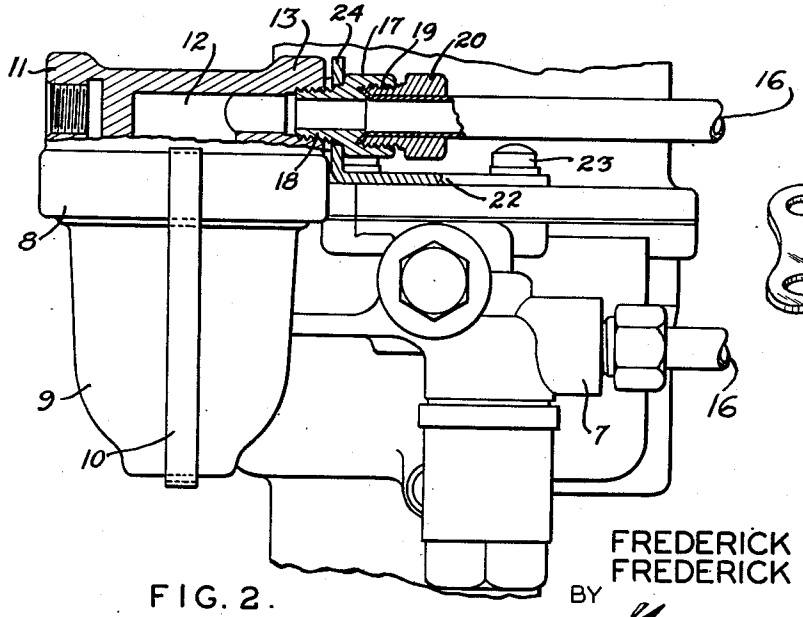


FIG. 2.

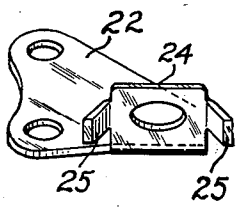


FIG. 3.

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RESILIENT MOUNTING BRACKET

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1 Claim. (Cl. 248—300)

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This invention relates to mounting brackets, particularly, of the anti-rattle type.

Where a supported member is detachably carried by a support which is subject to vibration, it is frequently desirable to provide a resiliently distortable anti-rattle element which is normally secured between the supported member and its mounting bracket or part. Such an element is especially desirable where the complementary elements of a threaded pipe coupling are utilized for securing the supported member to its mounting bracket. An example of this type of arrangement is found in a carburetor and filter assembly where a fuel line is connected to the filter body by a threaded coupling which may be used, conveniently, for attachment of a filter mounting bracket. In such case, a tight coupling between the bracket and filter would not be feasible since the threaded elements of the pipe coupling must have full threaded engagement in order to provide a sealing fit at this point, without distortion or breaking of the threads.

Accordingly, the main object of the present invention is to provide a non-rattle mounting bracket which may be secured between the threaded complementary elements of a pipe coupling.

This object and other more detailed objects hereafter appearing are attained by the device illustrated in the accompanying drawing in which:

Fig. 1 is a top view of a carburetor and fuel filter assembly embodying the invention.

Fig. 2 is a partial side view of the assembly, portions being sectioned for clearer illustration of the bracket and its mounting parts.

Fig. 3 is a perspective view of the bracket.

The carburetor shown is of the downdraft type having a barrel 5 and fuel bowl 6 with a fuel inlet coupling 7. Mounted adjacent the carburetor is a fuel filter having a metal top or body portion 8 and settling bowl 9 secured in position by a bale or strip 10. Body portion 8 of the filter has a tapped, fuel inlet aperture 11 from which the fuel is directed downwardly into the bowl 9, and an outlet passage 12 terminating in an apertured boss 13 provided with a female coupling thread.

The filter is connected to the carburetor by a curved tube 16 which, in turn, is connected, respectively, to the carburetor and filter by means of well known Weatherhead type couplings. One

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of these is shown in section, including a central element 17 with a male thread 18 at one end received in threaded boss 13 on the filter body, and a female thread 19 at the opposite end receiving a tube tightening screw 20 which sealingly secures the flared end of tube 16 against intermediate element 17.

The filter is supported from the carburetor by means of a mounting bracket including a horizontal support portion 22 bolted to the carburetor by means of the usual bowl cover screws 23, and a supporting portion 24 projecting vertically from portion 22. Portion 24 is apertured for receipt upon central coupling element 17 and between the same and internally threaded boss 13. Portion 24 has a pair of resilient extensions 25 bent outwardly for engaging the edge of boss 13 when coupling element 17 is threaded thereinto. These extensions or wings are resilient so as to maintain the bracket firmly in position and prevent rattling while permitting full threading of coupling element 17 into boss 13 to insure a sealing fit at this point.

By means of the above arrangement, a tight fit at the coupling is insured without danger of damage to the threads because of too tight threading of the coupling into boss 13 in an effort to insure tight mounting of the filter on its support bracket. Resilient extensions 25 are integral with the bracket which is formed of a metal which remains springy after bending.

The invention may be modified in various respects as will occur to those skilled in the art and the exclusive use of all modifications as come within the scope of the appended claim is contemplated.

We claim:

A mounting bracket including a plate-like body portion to be secured to a member, a supporting extension formed integral with the body portion and projecting angularly therefrom, said extension being formed with an opening for receiving one of a pair of connecting members, an integral outwardly diverging ear projecting from the side edge of the extension at each side of said opening, said ears having flat opposed diverging faces adapted to be disposed so as to be deformed by the adjacent outer side faces of one of the connecting members during their connection with each other to forcibly grip the same to facilitate firm attachment between the connecting members.

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