

July 31, 1934.

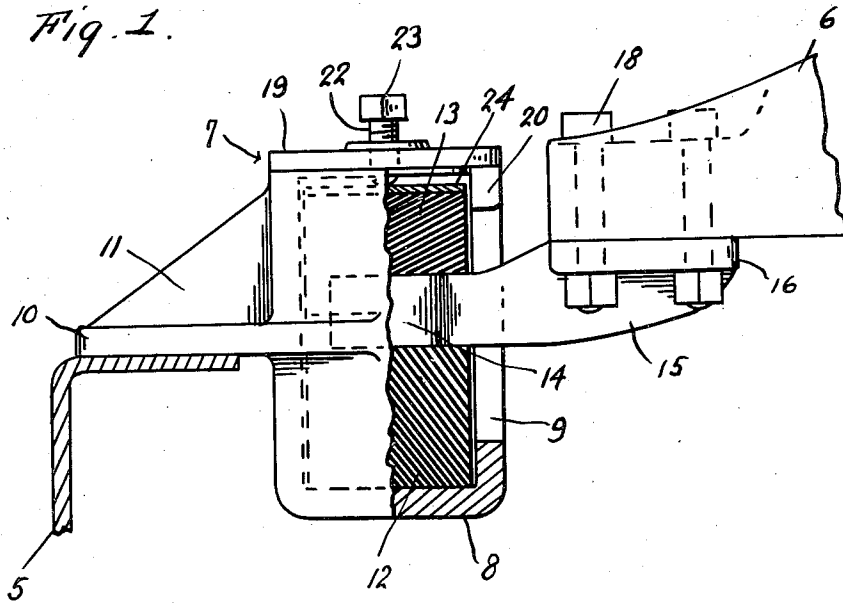
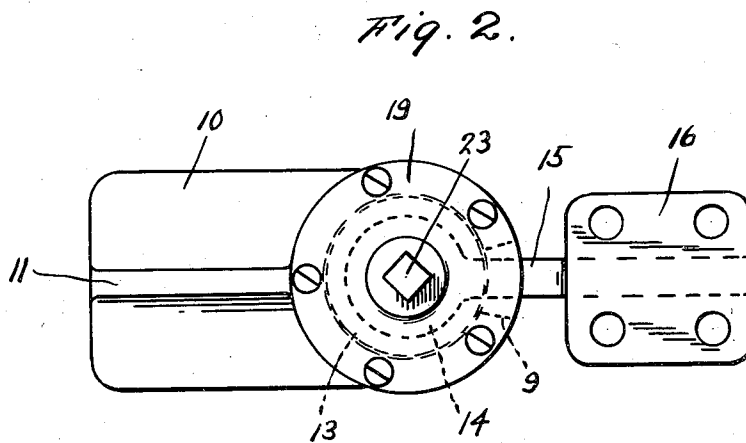
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1,968,040

SUPPORT

Filed Sept. 22, 1933

2 Sheets-Sheet 1



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Fig. 3.

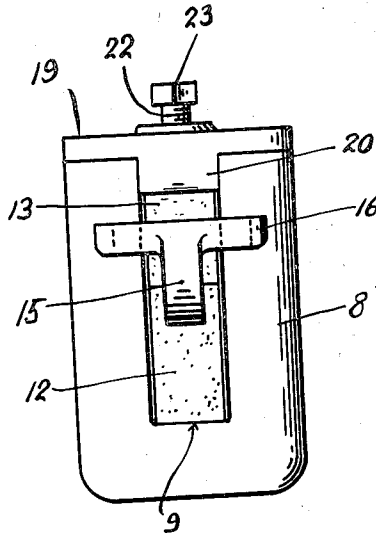


Fig. 4.

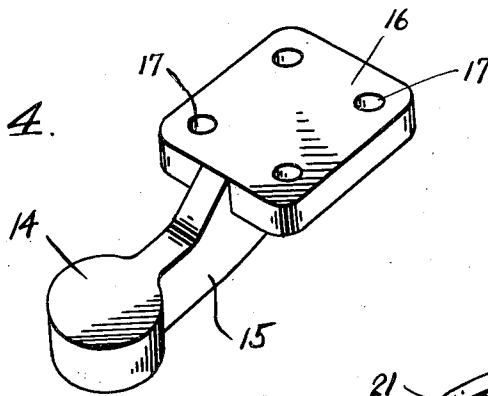


Fig. 5.

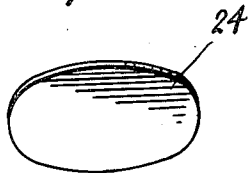
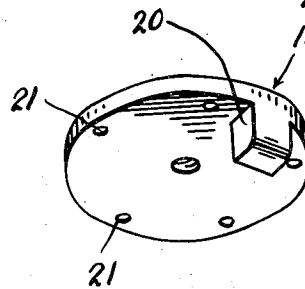


Fig. 6.



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UNITED STATES PATENT OFFICE

1,968,040

SUPPORT

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Application September 22, 1933, Serial No. 690,597

1 Claim. (Cl. 248—14.2)

This invention appertains to new and useful improvements in the general art of supports, and more particularly to a novel shock absorbing support for engines.

5 The principal object of the present invention is to provide a resilient support for internal combustion engines for supporting the engine in such a manner as to materially reduce vibration.

10 Another important object of the present invention is to provide a resilient support of the character stated wherein the resilient means can be adjusted to regulate the shock absorbing effect.

Other objects will become apparent to the reader of the following specification.

15 In the drawings:—

Figure 1 represents a fragmentary elevational view partly in section, disclosing the internal details of one of the supporting units.

20 Figure 2 represents a top plan view of the unit shown in Figure 1.

Figure 3 represents an inner side elevational view of the unit.

Figure 4 represents a perspective view of the supporting arm.

25 Figure 5 represents a perspective view of the follower plate.

Figure 6 represents a perspective view of the cap plate.

30 Referring to the drawings wherein like numerals designate like parts, it can be seen in Figure 1 that numeral 5 represents a chassis bar of an automobile frame structure, while numeral 6 represents the block portion of an internal combustion engine. Numeral 7 generally refers to one of the novel supporting units which in construction consists of a vertically disposed shell 8 having a vertically extending slot 9 at its inner side portion extending from a point adjacent the lower end thereof upwardly through the top thereof. Projecting laterally from the opposite side portion of the shell 8 is a lug 10 reinforced by a web 11 and this lug 10 is provided with openings therein through which bolts can be disposed for securing the unit to the bar 5.

45 Disposed in the shell 8 is the lower resilient block 12 and the upper resilient block 13 and between these blocks is interposed the circular head 14 from which projects the arm 15, this arm extending through the slot 9 and being provided with a plate-like extension 16 having bolt openings 17 therein through which bolts 18 can be disposed for securing the engine block 6 thereto.

50 The shell 8 is provided with a cap plate 19 having a depending lug 20 which depends into the upper portion of the slot 9. This cap plate

19 has openings 21 therein through which screws can be disposed for securing the cap plate to the upper end of the shell 8. Threaded through the central portion of this cap plate 19 is the screw 22 having the polygonal-shaped head 23. The lower end of this screw impinges against the follower plate 24 which is located upon the uppermost resilient block 13.

60 It can be seen that by adjusting the screw 22, the proper resiliency of the blocks 12—13 with respect to the head 14 can be obtained.

The foregoing specification sets forth various details making up a practical embodiment of the invention, but it is to be understood that various changes in the shape, details and size can be resorted to without departing from the claim appended.

70 Having described the invention, what is claimed as new is:—

A support comprising a stationary shell, a pair of superimposed resilient members in the shell, a plate for interposition between the resilient members, said shell being open at one end and having a slot in the side wall thereof opening at one end through said open end of the shell, said open end having threaded openings therein, a load supporting arm extending from said plate and through the said slot, a follower in the shell at the open end of the same, a closure plate secured to the open end of the shell, said closure plate having openings therein being provided with an inwardly extending lug for disposition into the slot to partly fill the same and to register the openings of the closure plate with the openings in the end of the shell, a feed screw threaded through the said closure plate, said feed screw being adapted to bear against the said follower plate to maintain the follower in proper tension against the adjacent resilient member, and screw members for disposition through the openings in the closure plate and into the threaded openings of the shell.

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