

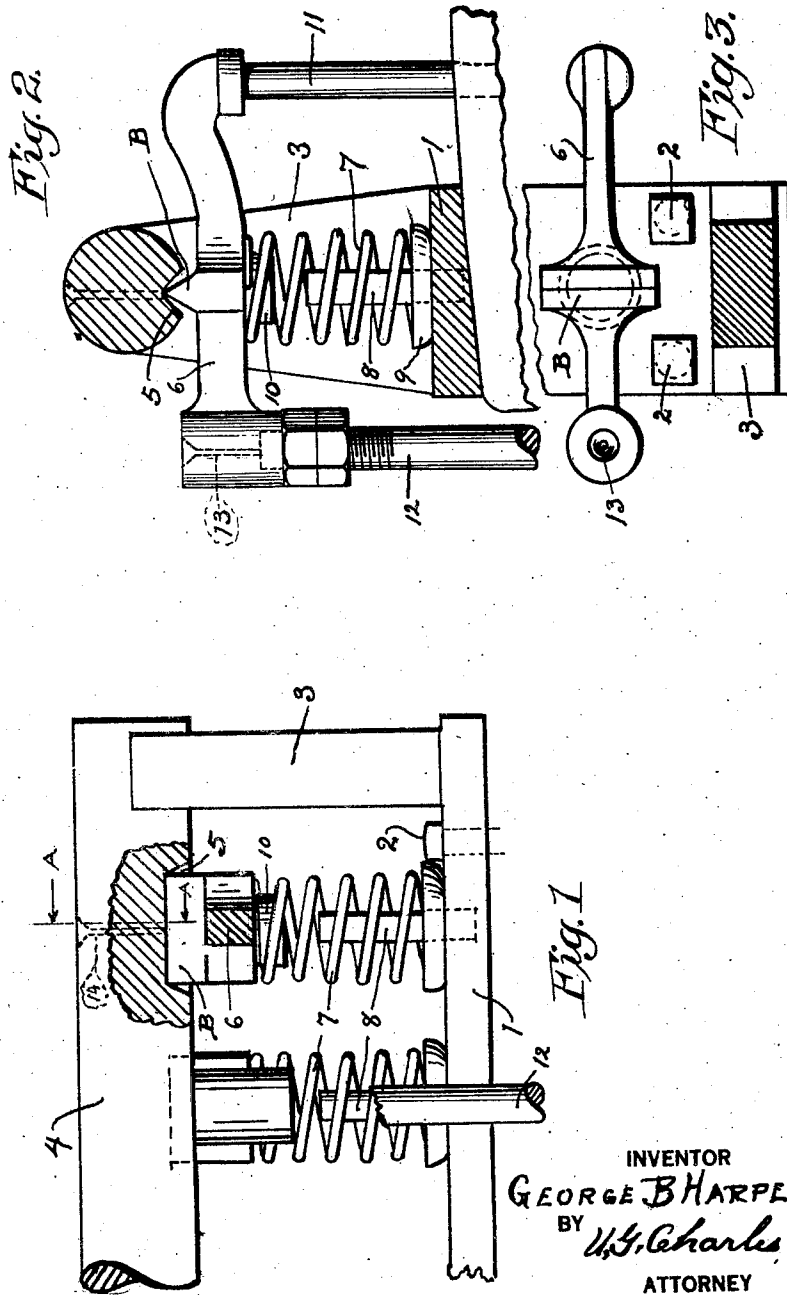
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ROCKER ARM FOR INTERNAL COMBUSTION ENGINES

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ROCKER ARM FOR INTERNAL-COMBUSTION ENGINES.

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My invention relates to rocker arms for internal combustion engines.

The object of my invention is to provide a rocker arm that is noiseless in its reciprocating motion.

A further object of my invention is to provide a rocker arm that the wear on the pivotal point will be taken up by a spring.

A still further object of my invention is to provide a rocker arm having a center bearing that will require less oiling than the ordinary arm now in use.

A still further object of my invention is to provide a rocker arm that can be removed without taking down the frame.

Referring to the drawings,

Fig. 1 is a fragmentary side elevation of the mechanism, parts being removed for convenience of illustration, Fig. 2 is a cross section view taken on line A, A looking in direction of arrows. Fig. 3 is a top view of one of the rocker arms proper. 1, is the base on which the frame is mounted and is the means by which the mechanism will be bolted to the top of the block by means of cap screws 2. 3 is the vertical supports for the horizontal bar 4, said bar having seats 5 adapted to receive the blade bearing B of rocker arm 6, the said arm being tensioned in said seat by means of a spring 7, said spring being positioned over a stud 8, and engaging in a seat 9, and the opposite end engaging on the underside of said rocker arm and held in position therein by a boss 10. The said spring functions as tensioning means to hold the blade B of said arm firmly seated as heretofore described and the said spring is of sufficient size so that the reciprocating motion of the rocker arm will not cause the sides of the spring to contact the

said stud 8 which is vertically interposed therein. 11 is the valve stem engaging on the end of said arm, and the opposite end of said arm is adapted to engage on the end of the cam shaft rod 12. I have provided an aperture 13, as convenient means for oiling the seat in which said rod is positioned, and likewise an aperture 14, for the rocker arm bearing.

It will be understood that the mechanism shown and described may be made in one unit and in length to conform to the number of cylinders in the block, and the height and distribution for the cylinders will be made to conform to the conditions required by the engine on which it is placed.

In the practice of my invention such modifications may be employed as lie within the scope of the appended claims. What I claim as new and desire to secure by Letters Patent is:—

In rocker arms for internal combustion engines, a base plate having vertically extending arms on each end thereof, said arms functioning as supports, a bar carried by said supports, a plurality of seats distributed along the under side of said bar, rocker arms having knife blade bearings on the upper side thereof to engage in said seats, bosses on the opposite side of the arms in axial alignment with said bearings, studs and spring seats laterally extending from the base plate being in axial alignment with the bosses, springs supported in position by the bosses, studs and spring seats, the said springs tensioning the rocker arms to engagement in their respective seats and adapted to tension equally in axial alignment with the seat bearings, as shown.

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