Dec. 16, 1924. 1,519,732

A. KIMMERLE, SR

REMOVABLE RATCHET PLATE FOR ACCELERATOR LEVERS OF AUTOMOBILES

Filed May 16, 1923

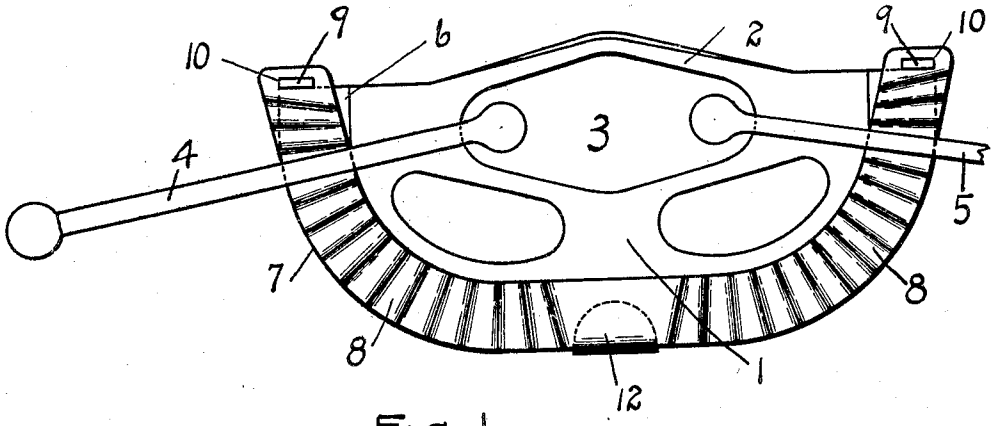


FIG. 1.

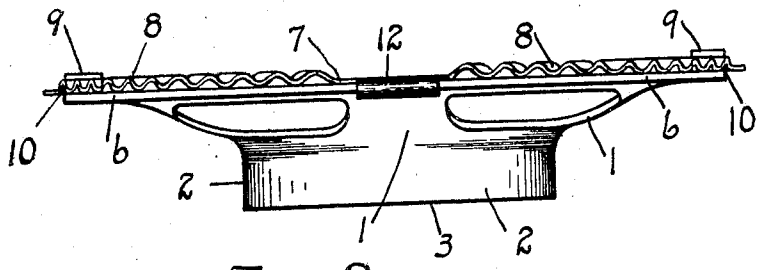


FIG. 2.

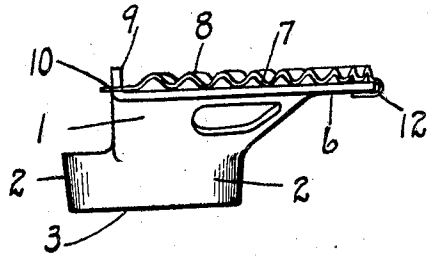


FIG. 3.

INVENTOR.
Albert Kimmerle Sr.
By John W. Strehli
ATTORNEY.

Patented Dec. 16, 1924.

1,519,732

UNITED STATES PATENT OFFICE.

ALBERT KIMMERLE, SR., OF CINCINNATI, OHIO.

REMOVABLE RATCHET PLATE FOR ACCELERATOR LEVERS OF AUTOMOBILES.

Application filed May 16, 1923. Serial No. 639,423.

To all whom it may concern:

Be it known that I, ALBERT KIMMERLE, Sr., a citizen of the United States, residing at the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Removable Ratchet Plates for Accelerator Levers of Automobiles, of which the following is a specification.

This invention has to do with the ratchet plates of automobiles, which are used in connection with the gas and sparking accelerator levers directly under the hand steering wheel, and which are indirectly connected with the steering rod. These levers work to and fro for the purpose of accelerating the gas or sparking. It is a well known fact that these ratchet plates became worn by constant use, by reason of the levers passing over the face thereof. When worn smooth, the levers will be thrown out of their proper engagement with the teeth in the ratchet plate so that when rough surfaces, holes, impediments, and a continued undulated surface on the road or street, thus interfering with the desired manipulation of the automobile while the same is running.

I obviate and overcome these objections by providing an auxiliary removable attachment ratchet plate which can be placed in position over the ratchet plate which is generally made integral with the bracket or casting which forms a part of the construction or device for holding said levers and ratchet plate connected and in position on the steering rod. It consists essentially of a U-shaped plate or bar stamped out of metal with teeth stamped therein to form a ratchet, and containing engaging means, so as to be placed in position over the old part of the bracket which carries the ordinary ratchet teeth, which have become worn.

It is very simple in its construction, cheap of manufacture, and highly efficient in use, and provides an article of manufacture of marked utility.

Its advantages and features will readily become apparent from reading the following specification:

In the accompanying drawing forming part of this specification:

Fig. 1, is a plan view of the bracket showing the accelerating levers and showing my ratchet plate or bar in position thereon, one of the levers being broken away.

Fig. 2, is a view in elevation looking at the device shown in Fig. 1, from the back end thereof, and

Fig. 3, is a view of the device looking at same from one side.

The casting or plate on which the ratchet is supported is marked 1, a hole therethrough is marked 3, and 2, is a neck of said plate 1, and the accelerator levers are marked 4 and 5, and the plate part, generally made integral with said plate 1, is marked 6. The steering rod passes through the hole 3, however said rod and the steering wheel and connection are not shown herein as they are well known in the art. This plate and connections being positioned directly under the steering wheel. The plate 6 in this device is the one upon which the ratchet teeth are placed in connection with which the accelerator levers 4 and 5 operates to and fro; said plate part being made integral with said plate. My U-shaped removable ratchet plate or bar is marked 7 and has slots 10 therein at each extremity and at the rear has a bent-over hook-shaped part 12. The slots 10 fit over the lugs 9 at the ends of the old ratchet plate 6, and the hook-shaped part 12 fits under said old ratchet plate part 6, see particularly Fig. 3, and by these means my new removable ratchet plate is held in position.

My new ratchet plate or bar is preferably stamped out of one piece and the ratchet teeth 8 are formed therein when it is stamped. As before stated, owing to the constant use of the accelerator levers 4 and 5 moving to and fro over the ratchet part of the old style plate, the ratchet teeth become worn and rounded to such an extent that when the automobile is driven over rough surfaces, or strikes holes or impediments in the street, or is passing over a street or road having acute undulated surface, the accelerator levers 4 nd 5 automatically work out of the position in which they have been placed, and thus impede and interfere with the proper running of the car according to the will of the operator. When these old plates have thus become worn, one of my new plates can be slipped into position as shown in the drawing and proper regulation of the accelerator levers naturally follows.

I may form my new removable plate of any desired contour and attach it to the old ratchet plate in any manner I find practicable and the teeth thereon may be of any desired shape and it may be stamped or cast

if desired. I may make it of two or more parts.

I wish to be understood as claiming that the particular construction herein set forth is preferred, but I may modify and change the same to some extent.

What I claim as new and my invention and desire to secure by Letters Patent is:

1. A removable ratchet plate for accelerator levers of automobiles of the character described, comprising a supporting bracket provided with an integral ratchet thereon in connection with which the accelerator levers operate, in combination with an independent ratchet plate, and means for holding the same on the integral ratchet part on said supporting bracket.

2. A removable ratchet plate for accelerator levers of automobiles of the character described, as a new article of manufacure, an independent stamped ratchet plate provided with means for connection with the bracket, in connection with which the accelerator levers operate on an automobile.

In testimony whereof, I affix my signature at Cincinnati, Ohio, this 15th day of May 1923.

ALBERT KIMMERLE, Sr.