J. L. AURAND.
AUTOMOBILE HOOD LOCK.
APPLICATION FILED OCT. 3, 1921.

1,434,277. Patented Oct. 31, 1922.

Fig. 1.

Fig. 2.

Fig. 3.

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To all whom it may concern:

Be it known that I, JAMES LEWIS AURAND, a citizen of the United States of America, residing in the city of Detroit, county of Wayne, State of Michigan, have invented certain new and useful Improvements in an Automobile Hood Lock; and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of these specifications:

The object of my invention is to provide a lock which will attach to the folding wings of the hood inclosing the engine of an automobile, in such a manner as will enable the wings to be securely locked to the frame of the car, and prevent any tampering with the engine, also act as a safety lock for the car.

It is a further object of my invention to provide a lock that is simple in its construction, easily attached to the car, easily and efficiently operated and can be manufactured at a low cost.

These objects are secured in their preferred form by the construction and arrangement of parts as are more fully hereinafter set forth.

Fig. 1, shows the back view of the lock illustrating the general construction, and operation of the working parts.

Fig. 2, is a top view of the lock as it is attached to the inner face of the automobile hood.

Fig. 3, shows the lock as it is attached to the hood wing of the automobile, and the means for operating and locking same to the frame of the car.

I will now describe more fully the detailed construction of the lock and the operation thereof, referring to the accompanying drawings and the marks thereon.

The operating mechanism is made in a unit as shown in Fig. 1, and attached in about the center of the lower inside face of the hood cover, as is shown in Fig. 3, and in such a manner that the operating handle projects outside the hood, providing a means for operating the lock bars connected thereto.

The lock bars extend to the ends of the hood cover and engage in the receiving sockets of the supporting frame, which is usually the radiator at the front end and the body of the car at the rear end of the cover.

The mechanism of the lock is mounted on the plate — as shown in Fig. 1, said plate being securely fastened to the lower inner surface of the hood cover. On the lower portion of plate — is a circular operating disc — which is supported by a connecting shaft — passing through the bearing in the main plate —. The disc is made to revolve in the bearing in either direction, and can be turned by means of the Y handle — on the outer end of the shaft. A stop notch is cut in the circumference on the lower edge of the disc, and of a sufficient length to allow the disc to revolve a 90 degree turn in the main bearing. In the notch is a stop pin — which is driven securely in the supporting plate — in such a manner that it engages the notch in the operating disc and prevents only a partial revolution thereof. On the upper half of the supporting plate — and securely fastened thereto is a standard bolt lock —, so arranged that the bolt — can be operated to and from the disc —. The upper half of the disc is provided with a notch to receive the lock bolt — when turned by the key —, and which prevents any rotation of the disc by any means. On each side of the operating disc — and hinged thereto, are horizontal lock bars — extending to the ends of the hood cover, and are guided by the slide supports — which are fastened to the inner face of the cover near the outer ends. The lock bars — are free to slide in the supports — and are supported by heavy springs — which are attached to the hood cover in such a manner that the pressure against the lock bars will hold the cover down tight against the end supports and prevent any rattle. The outer ends of the bars — are tapered on the top edges and engage the catches and — fastened to the radiator in the front and the body of the car at the rear end of the cover. Both catches are securely fastened to the supporting parts and are tapered on top to receive the ends of the lock bars and draw the hood down tight when the bars are forced in by the operating disc — as same is turned by the Y handle —.

The Y handle may be used the same as the ordinary lifting handle for opening the hood cover, but when the cover is down, by turning the Y handle a quarter turn, the operating disc connected thereto forces the lock bars — into the sockets — and
—13— at the ends of the hood cover, drawing the cover down tight over the hood supports, and is held firmly thereto by means of springs —11. By turning the key —8— in the lock, the bolt —7— engages the notch in the edge of the disc —2— and securely locks the cover to the radiator and body supporting the hood, thus preventing any access to the engine and providing a safety lock for the automobile.

Having fully described my hood lock, what I claim as my invention and desire to secure by Letters Patent is:

Claims:

15 An automobile hood lock of the character described in combination with the hood of an automobile, comprising horizontal locking bars, means for supporting same on the cover of the hood, an operating disc mounted between the ends of the said bars and connected thereto, means for operating said disc so as to move the bars in and out of the sockets in the hood supports, a tension spring attached to the cover and operating against the lock bars to draw the cover firmly down against the supports, a lock bolt to engage the operating disc to prevent any rotation thereof when locked and means for operating said lock.

In witness whereof I sign these specifications.

JAMES LEWIS AURAND.