To all whom it may concern:

Be it known that I, MONNA R. BRUGMAN, a citizen of the United States, and a resident of Windsor, in the county of Ashtabula and State of Ohio, have invented a new and Improved Protector for the Timers of Automobile-Engines, of which the following is a full, clear, and exact description.

In certain makes of automobiles short circuiting is very frequently caused by reason of the fact that the commutator or timer is located at the base of the oil filler at the back of the radiator in such position that oil is splashed on the timer and the wires leading therefrom and also muddy water splashing through the radiator cells collects on the timer and adjacent wires and in cold weather freezes.

It is the prime object of my invention to provide a waterproof and oilproof protector attachable to the timer and adjacent wires to prevent short circuiting by the causes referred to.

Other objects of the invention are to provide a protector in a form to be readily applied and held in position largely by elements appurtenant to the timer, and to provide for so securing the protector that it will not interfere with the movement of the timer casing to advance or retard the spark through the medium of the advancing arm.

Reference is to be had to the accompanying drawings forming a part of this specification in which similar reference characters indicate corresponding parts in both views, it being understood that the drawings are merely illustrative of one example of the invention.

Figure 1 is a perspective view of a protector embodying my invention, showing the same applied, the protecting sleeve for the wires being shown partially unfastened;

Fig. 2 is a fragmentary view at the opposite side from Fig. 1.

In carrying out my invention in accordance with the illustrated example, suitable oilproof and waterproof material is employed and the body of the protector is in the form of a hood designated generally by the numeral 10 which has a securing band 11 at the rear side thereof and a sleeve 12 extending from a side of the hood adjacent to the band.

The hood 10 is conical or tapered from the clamp band 11 and covers the body or casing of the timer or commutator, the front end of the casing protruding through a central opening 13 in the hood as indicated at A, said front end as known constituting the bearing B for the retaining spring employed with the timers of the type in question. The band 11 is adapted to be wrapped about the base ring C of the timer casing and the said band 11 has a slit 14 therein adjacent to the sleeve 12 through which the conductor wires D extend. The letter E indicates the binding posts for the wires D running to the coil on the dash (not shown), and extends through holes made in the band 11 so that the nuts of the binding post will lie outside of the band 11.

The hood is formed with a lateral opening 15 for the advancing and retarding arm G of the timer and said hole is advantageously produced by forming overlapping flaps 16, 17 on the ends of the band 11, the said overlapping ends merging into the body of the slit in a manner that when the said ends are fastened the hole 15 will be presented. The ends 16, 17 have mating fastener elements 18 of the snap fastener type or otherwise as may be preferred. The sleeve 12 has a side thereof open along the length of the sleeve for facilitating the application of the sleeve to the wires D after the hood and its band have been secured in position on the timer casing, and the open side of the sleeve has mating fastener elements 19.

It will be seen that the protector may be readily applied to the timer casing and securely fastened by the binding posts E and their nuts F. Also, the securing of the hood in position properly locates the sleeve 12 permitting it to be readily wrapped about the wires D. The arrangement permits the arm G to be operated to move the timer casing for advancing or retarding the spark and in no way interferes with the timer or its wires D.

I wish to state in conclusion that although the illustrated example constitutes a practical embodiment of my invention, I do not limit myself strictly to the mechanical details herein illustrated, since manifestly the same can be considerably varied without departure from the spirit of the invention as defined in the appended claims.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent:

1. A protector for a timer and its wires, the same including a tapered hood having
an orifice at the apex thereof to receive the terminal of the timer casing, a band at the opposite end of the hood from said opening adapted to embrace the ring of the timer casing, said band having overlapped ends, fastening means for the said ends, the said band being adapted to be clamped in position by binding posts and their nuts pertaining to the timer; and there being a lateral opening in the hood for the advancing and retarding arm of the timer, said opening being formed in part by the said overlapped ends of the band; together with a sleeve extending from the hood adjacent to the clamp band thereof and adapted to cover the wires from the timer, said sleeve being open along a side thereof, and fastening means along the open side of the sleeve, the said band having a slit therein adjacent to the sleeve affording passage for the said wires.

2. A protector for timers and the wires running therefrom, comprising a hood having a clamp band, said clamp band having overlapped ends, a sleeve extending from the hood at a side thereof to protect the said wires, said band having means to permit passage of the wires to the sleeve, the sleeve being open along a side thereof, and means to fasten the open side of the sleeve.

3. A protector for timers and the conductor wires thereof including a hood adapted to be applied over the casing of the timer, a clamp band on the hood at one side adapted to detachably embrace the ring of the timer casing, means to fasten the said band, and a sleeve extending from the hood at a side thereof adapted to be wrapped about and form a cover for the conductor wires adjacent to the hood.

MONNA R. BRUGMAN.