

C. C. KUSTERER.
HOOD FASTENER FOR AUTOMOBILES.
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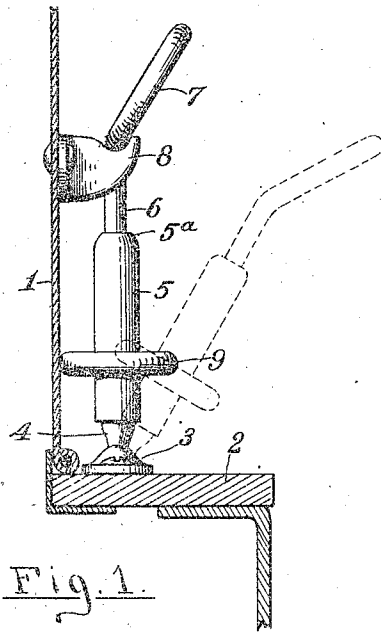


Fig. 1.

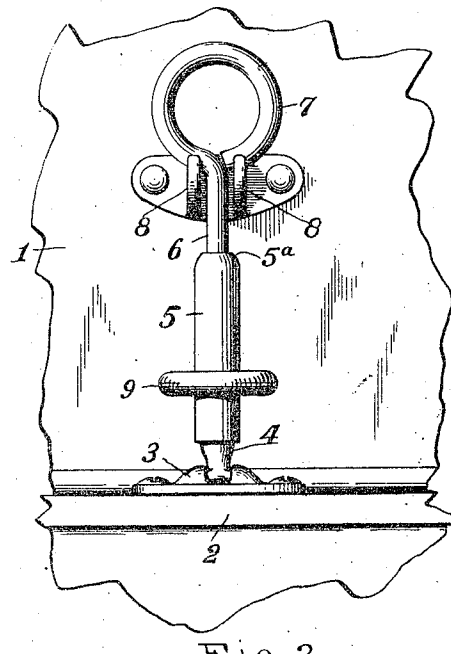


Fig. 2.

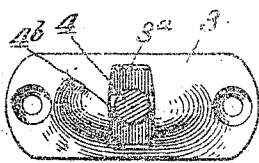


Fig. 4.

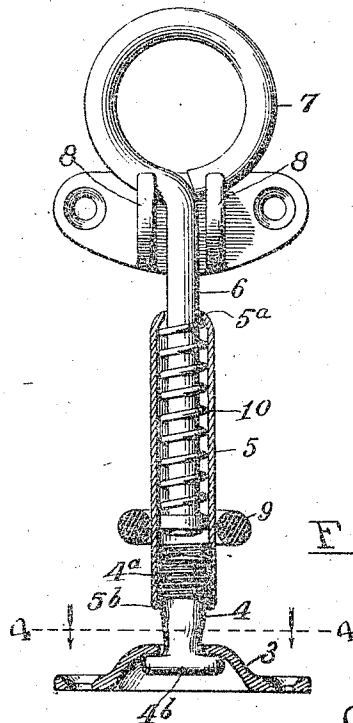


Fig. 3.

Witnesses

Harold C. Van Antwerp
Max Rankin

Inventor

Carl C. Kusterer

By

Luther V. Moulton
Attorney

UNITED STATES PATENT OFFICE.

CARL C. KUSTERER, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO KEELER BRASS CO.,
OF GRAND RAPIDS, MICHIGAN, A CORPORATION OF MICHIGAN.

HOOD-FASTENER FOR AUTOMOBILES.

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To all whom it may concern:

Be it known that I, CARL C. KUSTERER, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Hood-Fasteners for Automobiles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in fasteners and more particularly to hood fasteners for automobiles and its object is to provide the same with means for adjusting the tension of the spring, to provide means for preventing the device from rattling, to provide a fastener that is readily detachable and to provide the same with various new and useful features hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which:—

Figure 1 is a front elevation of a device embodying my invention; Fig. 2 is an elevation at right angles to Fig. 1; Fig. 3 an enlarged detail of the device partially in section; and Fig. 4 a plan of the anchor plate.

Like numbers refer to like parts in all of the figures.

1 represents the hood to be secured in place by my device. 2 the chassis frame supporting the hood. 3 an anchor plate secured to the frame 2 provided with a transverse slot 3^a and raised portions at each side of the slot to receive the lower end of a shank 4 provided with a T-head 4^b to enter the slot and oppositely engage the under side of the raised portion of the anchor plate when turned beneath the same. This shank 4 is screw threaded at its upper end as at 4^a and inserted in the screw threaded end of a tubular spring case 5 and the end of the case spun inward as at 5^b to prevent the removal of the shank. In this case is a coiled spring 10 through which extends a rod 6 having a head at its lower end engaging the lower end of the spring, the upper end of the case 5 being turned inward at 5^a to closely surround the rod 6 and retain the spring in the case. The upper end of the rod is bent in a circular form 7 which engages a pair of hooks 8 secured to the

side of the hood 1, and by the tension of the spring is forced downward upon the hooks, thus securely holding the hood down in place. A ring 9 preferably of rubber or other elastic material, surrounds the case 10 and laterally engages the hood to prevent any rattling of the parts of the device. By turning the screw 4^a, the shank is adjusted longitudinally of the case and thus adjusts the tension on the spring 10 at pleasure. By manually raising the ring 7 clear of the hooks the device may be swung outward as indicated in broken lines in Fig. 1 and the hood thus released and in the event it is desirable the case and parts attached may readily be separated from the anchor plate 3 as occasion may require.

Obviously the use of this fastener is not limited to the hoods of automobiles but it may be used variously, to detachably secure any two members to each other and yieldingly press them together.

What I claim is:—

1. A fastener, comprising a spring case, a shank adjustable in the case, means for pivotally attaching the shank, a spring in the case, a rod engaged by the spring and projecting outside the case, and means for detachably securing the projecting end of the rod.

2. A fastener, comprising a spring case, a shank adjustable in the case, means for preventing removal of the shank from the case, means for pivotally attaching the shank, a spring in the case, a rod engaged by the spring and projecting outside of the case, and means for detachably securing the projecting end of the rod.

3. A fastener, comprising a tubular spring case, a shank projecting from one end of the case and adjustable therein, an anchor plate pivotally connected to the shank, a rod longitudinally movable in the case and projecting therefrom, a spring surrounding the rod connected to the rod at one end and engaging the end of the case at the other end, and means for detachably securing the projecting end of the rod.

4. A fastener, comprising an anchor plate having a transverse slot and raised portions at each side of the slot, a shank having a T-head to enter the slot and engage the under side of the raised portions, a tubular spring case adjustably mounted on the shank, a spring in the case, a rod within the

spring having a head engaging one end of the spring and projecting from the end of the case, a ring on the projecting end of the rod and hooks to embrace the rod and engage the ring.

- 5 5. A fastener, comprising a tubular spring case screw threaded at one end and turned inward at the other end, a screw threaded shank inserted in the screw threaded end of the case, an anchor plate pivotally connected to the shank, a spring in the case engaging the inwardly turned end thereof at one end, a rod in the case and spring having a head engaging the other end of the spring and projecting from the inwardly turned end of the case, a ring on the outer end of the rod, and a pair of hooks to embrace the rod and engage the ring.
- 10 6. A fastener, comprising an anchor plate having a transverse slot and raised portions at each side of the slot, a shank having a T-head at one end to enter the slot and engage said portions and screw threaded at the other end, a tubular spring case screw threaded at one end to receive the screw threaded end of the shank and inwardly turned at the other end, a spring in the case engaging one end, a rod in the case, having a head engaging the other end of the spring and projecting through the in-
- 15 20 25 30

wardly turned end of the case at the other end, a ring on the projecting end of the rod, and a pair of hooks to embrace the rod and engage the ring.

7. A fastener, comprising an anchor plate, a tubular spring case having a shank pivotally attached to said plate, a rod longitudinally movable in the case and projecting therefrom opposite to the shank, a ring on the outer end of the rod, a pair of hooks to embrace the rod and engage the ring, a spring in the case to yieldingly pull the rod into the case and an elastic band surrounding the case.
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8. A fastener, comprising a tubular spring case screw threaded at one end, a screw threaded shank inserted in said end, said end also being spun inward to prevent removal of the shank, an anchor plate pivotally attached to the shank, a spring in the case, a rod movable in the case and drawn into the case by the spring, a ring on the end of the rod, and hooks to embrace the rod and engage the ring.
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In testimony whereof I affix my signature in presence of two witnesses.

CARL C. KUSTERER.

Witnesses:

PALMER A. JONES,
LUTHER V. MOULTON.