Nov. 3, 1936. F. E. BARBER ET AL 2,059,302

AUTO HOOD FASTENER

Filed Feb. 6, 1936

Fig. 1.

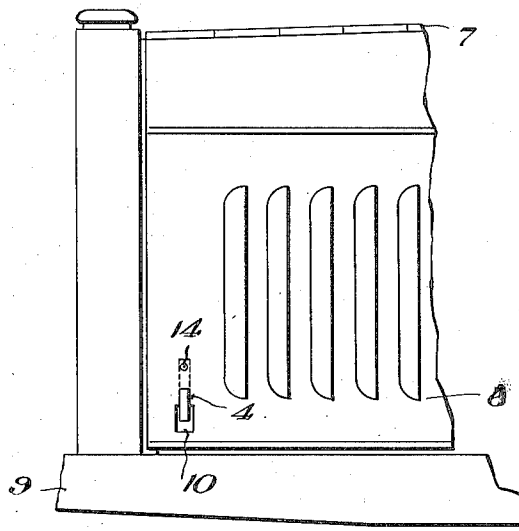


Fig. 2

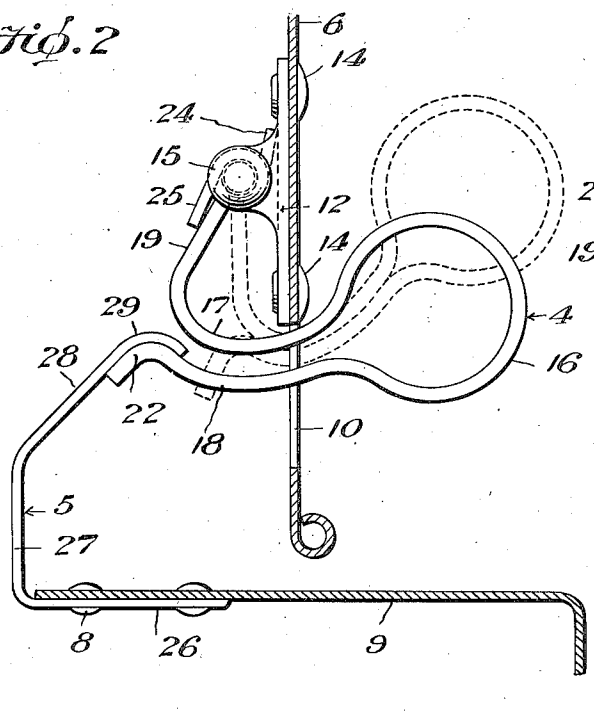
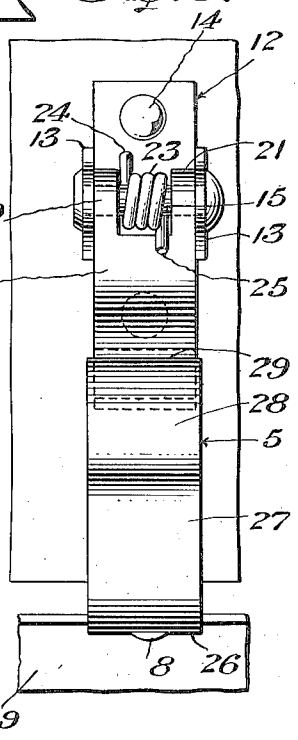


Fig. 3.



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AUTO HOOD FASTENER

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Application February 6, 1936, Serial No. 62,676

5 Claims. (Cl. 292—228)

This invention relates to a latch designed primarily for latching the hinged sections of the hood of an automotive vehicle, but it is to be understood, that a latch in accordance with this invention is for use in any connection for which it may be found applicable, and the invention has for its object to provide, in a manner as hereinafter set forth, a latch including a pivotally mounted resilient latching member, constituting a handle, placed under tension, relative to a keeper when and for maintaining it in latching position, and releasably held from shifting when in non-latching position.

A further object of the invention is to provide, in a manner as hereinafter set forth, a latching device including a latching member for pivotal connection to and for extension through and from the element to be latched and a means associated with said member for releasably holding it from shifting when it is in non-latching position.

Further objects of the invention are to provide, in a manner as hereinafter set forth a latch for the purpose referred to which is simple in its construction and arrangement, strong, durable, compact, expeditiously operated to and from latching position, functioning as a handle for shifting or raising the element with which it is employed to latch, thoroughly efficient in its use, readily installed with respect to the element which it is to latch and release, and inexpensive to manufacture.

With the foregoing and other objects which may hereinafter appear the invention consists of such parts and such combination of parts as will be more specifically described and are as illustrated in the accompanying drawing, wherein is shown an embodiment of the invention but it is to be understood that changes, variations and modifications may be resorted to which fall within the scope of the invention as claimed.

In the drawing:—

Figure 1 is a fragmentary view, in side elevation of the engine hood of an automotive vehicle showing the adaptation of the latch relative to one of the hinged sides of the hood.

Figure 2 is a side elevation of the latch as applied to a hinged side of the hood and to the sill of the vehicle and illustrating in full line the latch in latching position and in dotted lines in non-latching position, and

Figure 3 is an elevation looking towards the inner side of the latch when installed.

The latch includes a latching member 4 and a keeper member 5. The member 4 is bodily carried by the hinged side 6 of the hood 7. The member 5 may be secured to the radiator, sill or body of the vehicle and is shown by way of example as secured by the holdfast devices 8 to the sill 9. The hinged side 6 of the hood in proximity to its forward end edge and its bottom edge is formed with a rectangular slot 10 for the extension through side 6 of the member 4.

The latch includes a vertically disposed bracket 11 formed of a rectangular base plate 12 provided with a pair of spaced parallel apertured ears 13 approximately at its transverse center. The ears 13 extend rearwardly with respect to the rear face 14 of plate 12. The plate 12 is positioned against the inner face of side 6 above the slot 10. The bottom edge of plate 12 is flush with the upper end wall of slot 10. Holdfast means 14 are employed for anchoring the bracket 11 to the inner face of hood side 6. Carried by the ears 13 is a pivot 15 for the latching member 4.

The latching member 4 consists of a strap of a resilient metallic material of the desired length, width and gauge bent upon itself to provide an outer portion in the form of a large split loop 16 constituting a handle, a pair of superposed curved intermediate stretches 17, 18 merging at their outer ends into the ends of loop 16, an upstanding outwardly inclined upper inner stretch 19 merging at its upper end into a pair of spaced parallel loops 20, 21 for connecting member 4 to the pivot 15 and merging at its lower end into the inner end of stretch 17 and a depending curved lower inner stretch form a nose 22 extended from the inner end of stretch 18. The stretches 17, 18 are arranged in the slot 10.

Mounted on the pivot 15 is a coiled spring 23 having its end 24 extended and bearing against plate 12 and its other end 25 extended and bearing against the stretch 19 below the loops 20, 21. The spring 23 permanently tends to maintain the loop 16 in an elevated position and acts to prevent the shifting of member 4 on pivot 15 when the side 6 is in a latched or an unlatched position.

The keeper 5 is vertically disposed and is formed from a strap of metallic material of the desired length, width and gauge and preferably of a width greater than that of the strap forming the member 4. The keeper 5 consists of a lower horizontal stretch 26 which is secured by the holdfast means 8 to the lower face of sill 9, a vertical disposed stretch 27 merging at its lower end into the outer end of stretch 26 and opposing the inner edge of sill 9, an upstanding outwardly inclined stretch 28 merging at its lower end into the upper end of stretch 27 and an outwardly directed upper stretch 29 of arcuate form consti-

tuting a retainer for engagement by the nose 22 for the purpose of releasably retaining the member 4 in latched position.

With reference to Figure 2 the member 4 is illustrated in position for latching the side 6 closed and which is accomplished by the superimposing of stretch 29 or nose 22. When releasing side 6, the loop 16 is moved upwardly relative to side 6 whereby the nose 22 is removed from engagement with stretch 29 and on further upward movement of loop 16, the stretch 17 engages the top wall of slot 10 and the side 6 is elevated. When latching side 6, the member 4 is shifted to the full line position Figure 2.

What we claim is:—

1. In a latch device for an apertured object carrying a pivot on one side above its aperture, a latching member consisting of a strap of resilient material bent upon itself to provide its outer portion in the form of a split loop constituting a handle having its ends merging into the outer ends of a pair of superposed intermediate stretches adapted to pass through the aperture in the object, the upper one of said stretches merging at its inner end in the lower end of an outwardly inclined upstanding upper inner stretch having its upper terminal portion bent upon itself and adapted to loosely connect with said pivot, the lower of the said intermediate stretches merging at its inner end into the upper end of a curved depending lower inner stretch constituting a nose adapted to releasably engage a keeper.

2. In a latch device for an apertured object carrying a pivot on one side above its aperture, a latching member consisting of a strap of resilient material bent upon itself to provide its outer portion in the form of a split loop constituting a handle having its ends merging into the outer ends of a pair of superposed intermediate stretches adapted to pass through the aperture in the object, the upper one of said stretches merging at its inner end in the lower end of an outwardly inclined upstanding upper inner stretch having its upper terminal portion bent upon itself and adapted to loosely connect with said pivot, the lower of the said intermediate stretches merging at its inner end into the upper end of a curved depending lower inner stretch constituting a nose adapted to releasably engage a keeper, the said intermediate stretches being of segmental contour and with the arc of the lower intermediate stretch greater than the arc of the upper intermediate stretch.

3. In a latch device for an apertured object carrying a pivot on one side above its aperture, a latching member consisting of a strap of resilient material bent upon itself to provide its outer portion in the form of a split loop constituting a handle having its ends merging into the outer ends of a pair of superposed intermediate stretches adapted to pass through the aperture in the object, the upper one of said stretches merging at its inner end in the lower end of an outwardly inclined upstanding upper inner stretch having its upper terminal portion bent upon itself and adapted to loosely connect with said pivot, the lower of the said intermediate stretches merging at its inner end into the upper end of a curved depending lower inner stretch constituting a nose adapted to releasably engage a keeper, the said upper terminal portion of the inner upper stretch being bifurcated, and a controlling spring arranged in the said bifurcated upper terminal portion and having its ends extended, said spring adapted to be mounted on said pivot, one of the ends of the spring bearing against the rear face of the upper inner stretch and the other end of said spring adapted to bear against said object.

4. In a latch device for an apertured object carrying a pivot on one side above its aperture, a latching member consisting of a strap of resilient material bent upon itself to provide its outer portion in the form of a split loop constituting a handle having its ends merging into the outer ends of a pair of superposed intermediate stretches adapted to pass through the aperture in the object, the upper one of said stretches merging at its inner end in the lower end of an outwardly inclined upstanding upper inner stretch having its upper terminal portion bent upon itself and adapted to loosely connect with said pivot, the lower of the said intermediate stretches merging at its inner end into the upper end of a curved depending lower inner stretch constituting a nose adapted to releasably engage a keeper, the said intermediate stretches being of segmental contour and with the arc of the lower intermediate stretch greater than the arc of the upper intermediate stretch, the said upper terminal portion of the inner upper stretch being bifurcated, and a controlling spring arranged in the said bifucated upper terminal portion and having its ends extended, said spring adapted to be mounted on said pivot, one of the ends of the spring bearing against the rear face of the upper inner stretch and the other end of said spring adapted to bear against said object.

5. A latching member consisting of a resilient strap-like body having a pair of intermediate curved superposed stretches movable away from each other when the member is in latching position and abutting each other when the member is in non-latching position, a split loop constituting a handle, corresponding ends of said stretches merging into said loop, and upper and lower inner stretches extending in opposite directions relative to each other, said upper inner stretch being of greater length than the lower inner stretch, merging at one end into the other end of the upper intermediate stretch and adapted to have its other end anchored, and said lower inner stretch merging at one end into the other end of the lower intermediate stretch and of a form to constitute a nose for detachable engagement with a keeper.

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