Dec. 9, 1930. N. W. CUMMINS 1,784,224

HOOD CLAMP.

Filed Feb. 25, 1929

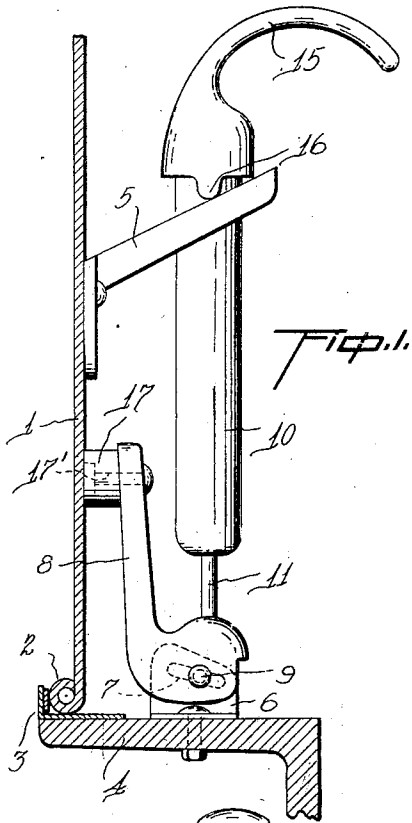


Fig. 1.

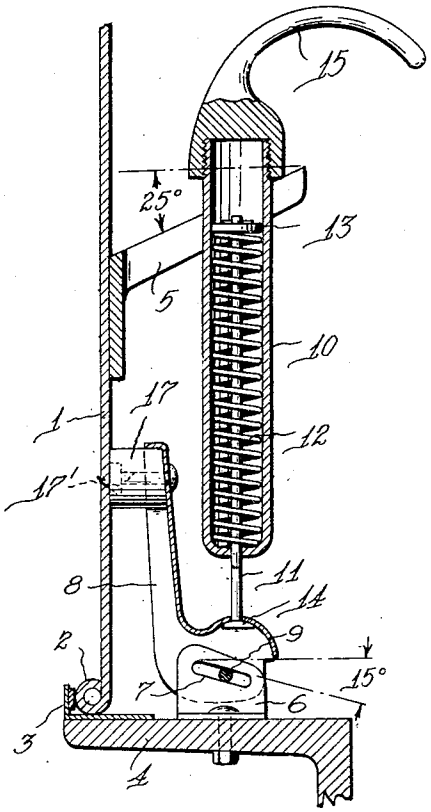


Fig. 2.

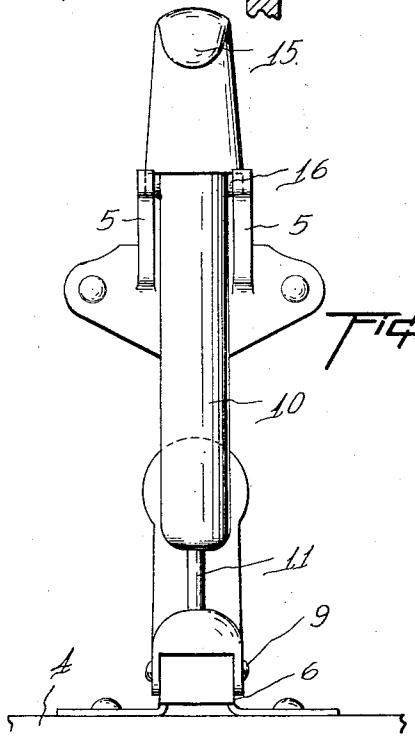


Fig. 3.

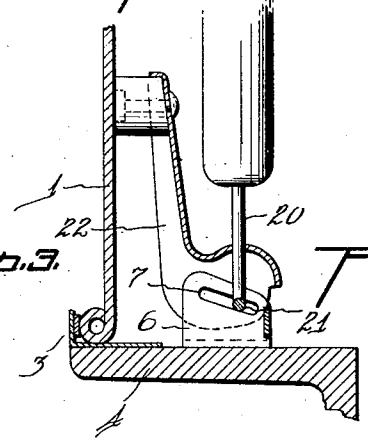


Fig. 4.

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UNITED STATES PATENT OFFICE

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HOOD CLAMP

Application filed February 25, 1929. Serial No. 342,329.

The present invention pertains to a novel hood clamp designed for the general purpose of holding down and locking the hood of a motor vehicle.

The principal object of the invention is to provide a firm locking device of this character, acting on at least two points of the movable hood wall in a manner to exert pressure thereon. This object is accomplished by having the usual spring locking member slidable on a pair of inclined guides which converge towards the hood wall. One of the guides is carried directly by the hood wall and the other by the base plate. The locking member is connected to the latter guide by means of an arm having a swivel and sliding connection to the guide, and this arm may be swung by the locking member into firm engagement with the hood wall, thus constituting the second point of pressure application thereto.

The invention is fully disclosed by way of example in the following description and in the accompanying drawing, in which—

Figure 1 is a side elevation of the device;

Fig. 2 is a longitudinal section thereof;

Fig. 3 is a front elevation; and

Fig. 4 is a detail section of a modification.

Reference to these views will now be made by use of like characters which are employed to designate corresponding parts throughout.

In Figure 1 is illustrated the hinged or swinging wall of a hood 1, the lower edge 2 of which engages in an angle member 3 on a base member 4. To the member 1 is secured a bifurcated bracket 5 which is inclined downwardly towards the wall 1 at an angle of about 25° to the vertical.

To the base member 4 is secured another guide member consisting of a bracket 6 formed with a slot 7 sloping upwardly towards the wall 1 at an angle of about 15° to the horizontal. To the bracket is attached an arm 8 by means of a transverse pin 9 passing through the slot 7.

The locking device is of the usual spring construction and includes a body or barrel 10 having a stem 11 slidable through the lower end thereof. The upper part of the stem is surrounded by a compressed spring 12 having one end bearing against the bottom of the member 10 and the other end against a disk 13 secured to the upper end of the stem within the barrel. The spring exerts on the stem 11 a tension tending to draw it upwardly into the barrel. The lower extremity of the stem is passed through the arm 8 and headed at 14 in order not to be withdrawn therefrom. On the upper end of the body 10 is threaded a finger piece 15 having a pair of ears 16 engageable on the bifurcated member 5 and adapted to ride thereon.

The arm 8 carries a bumper 17 held by a pin 17′ and engageable with the hood 1, as clearly shown in Figure 2.

In the use of the device, the hood is locked by the placing of the ears 16 upon the member 5 as illustrated in Figure 1. The expansive force of the spring tends to draw the arm 14 upwardly towards the bracket 5, whereupon the arm slides upwardly towards the wall and the finger piece 15 slides downwardly towards the wall. The locking device thus assumes a bodily movement towards the wall 1, being at all times substantially parallel thereto. The lifting force on the arm 8 also tends to turn the same about the pin 9, as a pivot, so that the arm may be said to have a sliding and swivel connection to the bracket 6. The tilting movement of the arm brings the bumper 17 into engagement with the wall 1, thereby exerting pressure on the wall 1 at a point other than the connection of the bracket 5 to the wall. The swinging movement of the arm 8 obviously presses the lower edge of the wall 1 against the angle piece 3 and thus avoids rattling.

The provision of two angular guides for the locking member enables the governing of the inward pressure for various styles of con-

struction by regulation of the angles of the guides.

In Figure 4 is illustrated a modification in which the stem 20 of the locking device is attached directly to the pin 21 sliding in the slot of the bracket 6. The stem 20 obviously passes through the arm 22 as shown and moves the same into engagement with the hood 1 while riding upwardly in the bracket 6.

Although specific embodiments of the invention have been illustrated and described, it will be understood that various alterations in the details of construction may be made without departing from the scope of the invention, as indicated by the appended claims.

What I claim is:—

1. A hood clamp comprising a spring locking device, a pair of guides for said member adapted for attachment respectively to a movable hood wall and a fixed base member adjacent such wall, said guides converging towards said hood, said locking member being adapted to slide along the guide for attachment to the hood wall, and means carried by said locking device and movable along the other guide for engaging the hood.

2. A hood clamp comprising a spring locking device, a pair of guides for said member adapted for attachment respectively to a movable hood wall and a fixed base member adjacent such wall, said guides converging towards said hood, the guide for attachment to the hood wall being engageable directly by said locking member, and an arm carried by one end of said locking device and having a sliding and swivel connection to the remaining guide, said arm being adapted to be moved by said locking device into engagement with the hood.

3. A hood clamp comprising a spring locking device, a pair of guides for said member adapted for attachment respectively to a movable hood wall and a fixed base member adjacent such wall, said guides converging towards said hood, the guide for attachment to the hood wall being engageable directly by said locking member, an arm carried by one end of said locking device and having a sliding and swivel connection to the remaining guide, said arm being adapted to be moved by said locking device towards said hood, and a bumper carried by said arm.

4. A hood clamp comprising a spring locking device, a guide for said locking device adapted for attachment to such hood wall, a slotted guide adapted for attachment to such base member, said guides converging towards the hood wall, an arm carried by the lower end of said locking member and having a swivel connection in the slot of the last named guide, said arm being adapted to be moved by said locking member into engagement with the hood wall.

5. A hood clamp comprising a spring locking device, means adapted for attachment to such hood and engageable directly by said locking member, a slotted guide adapted for attachment to such base member and having its slot sloping upwardly towards the hood wall, an arm carried by the lower end of said locking member and having a pin connection in the slot of said guide, said arm being adapted to be moved by said locking member into engagement with the hood wall.

In testimony whereof I affix my signature.

NORMAN W. CUMMINS.