Nov. 2, 1937. C. W. HUTCHINSON 2,097,923

CAR PROTECTOR

Filed March 23, 1936

FIG. 1.

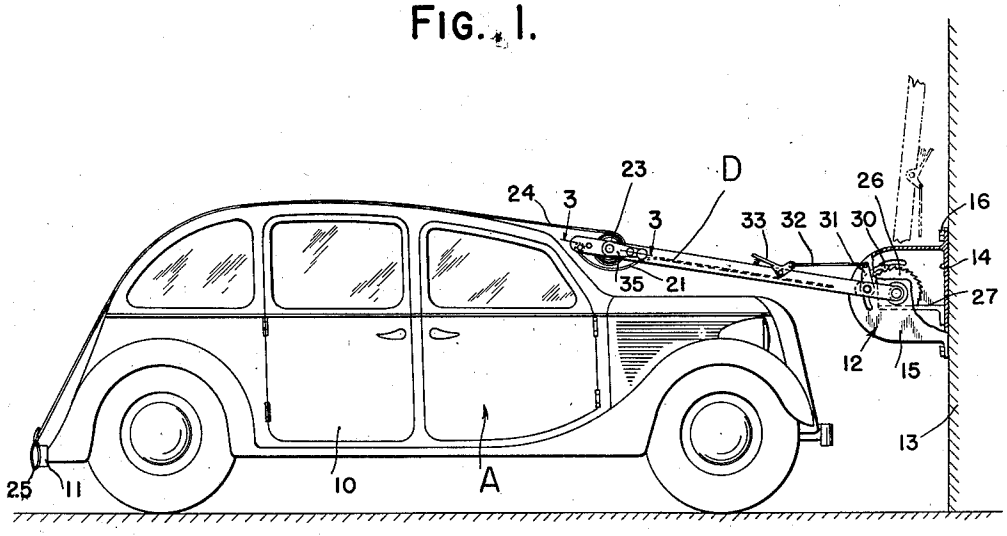


FIG. 3.

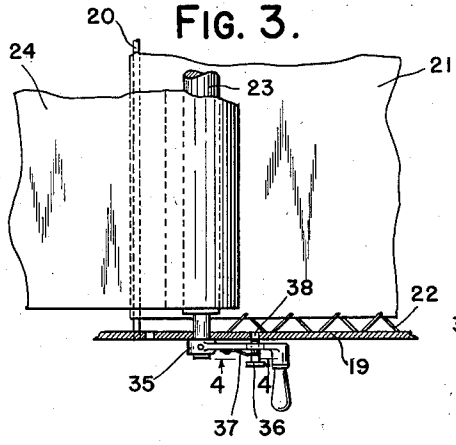
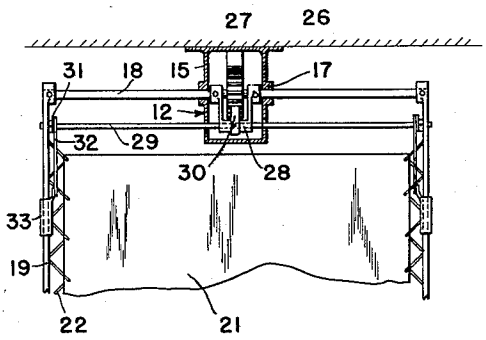


FIG. 2.



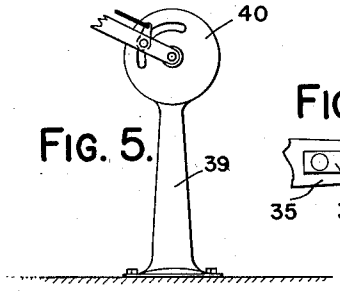
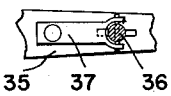


FIG. 5.

FIG. 4.



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ATTORNEYS

Patented Nov. 2, 1937 2,097,923

UNITED STATES PATENT OFFICE

2,097,923

CAR PROTECTOR

Charles W. Hutchinson, Milwaukee, Wis.

Application March 23, 1936, Serial No. 70,359

3 Claims. (Cl. 135—5)

This invention appertains to canopies, and other similar temporary shelters, and has for one of its primary objects the provision of novel means for carrying and supporting a protecting cover, whereby such covering can be readily and quickly moved over the place or object to be protected, or back in a folded compact condition out of the way.

Another salient object of my invention is to provide a novel device for protecting automobiles against the elements when the same are parked out-of-doors, embodying a swinging frame carrying a roller on which a canvas or like covering is normally wound, the frame being movable toward and away from the vehicle so that the covering can be pulled over the top of the vehicle from the roller.

A further object of my invention is the provision of a device particularly adapted for use in open air automobile parking stations, embodying a support adapted to be carried by a standard or wall, on which is rockably mounted a swinging frame carrying a projecting apron for the hood of an automobile, and a canvas covering movable over the top of the automobile and attachable to the rear bumper thereof, or any other convenient place.

A further important object of my invention is the provision of novel means under the control of an operator for holding the swinging frame in its operative position toward and over the hood of an automobile, or in a raised, elevated position out of the way.

A still further object of my invention is to provide an improved device of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture, and one which can be placed upon the market and installed at a small cost.

With these and other objects in view, the invention consists in the novel construction, arrangement, and formation of parts, as will be hereinafter more specifically described, claimed, and illustrated in the accompanying drawing, in which drawing:

Figure 1 is a side elevation of my improved device, showing the same in its operative position over an automobile, parts of the device being shown broken away and in section.

Figure 2 is a fragmentary top plan view of my improved device, showing the same in its lowered position, with parts thereof broken away and in section.

Figure 3 is an enlarged fragmentary horizontal section through my improved device, taken substantially on the line 3—3 of Figure 1, looking in the direction of the arrows.

Figure 4 is an enlarged detail view taken substantially on the line 4—4 of Figure 3, looking in the direction of the arrows, illustrating the means employed for holding the operating crank for the roller in a locked position.

Figure 5 is a fragmentary side elevation of my improved device, showing a slightly modified form thereof.

Referring to the drawing in detail, wherein similar reference characters designate corresponding parts throughout the similar views, the letter D generally indicates my improved device, which can be utilized for protecting the finish of an automobile A from the elements.

The automobile A forms no part of my present invention, and has been merely shown to illustrate one use to which my invention may be put. The automobile may be of any make, and includes the usual body 10, having the rear bumper 11.

My improved device D embodies a housing or casing 12, which can be secured to or formed on a supporting standard or pedestal, or against the wall 13 of a house, or the like. The casing 12 may be formed from metal, and includes the back-plate 14 and side walls 15. The back-plate 14 receives the supporting bolts 16. The side walls 15 of the casing carry suitable bearings 17 for the main supporting shaft 18.

Rigidly secured to the terminals of the shaft 18 are outwardly extending arms 19. The arms 19 have their outer ends connected by a rod 20, and the shaft 18, the arms 19, and the rod 20 constitute a swinging frame, the purpose of which will be later set forth. The canvas or like apron 21 has its forward end secured to the rod 20, and the longitudinal edges of the apron are connected to the side bars or arms 19 by means of lacing 22.

A rotatable drum or roller 23 is carried by the side bars or arms 19 adjacent to the outer ends thereof, and this drum or roller has normally wound thereon a flexible protecting covering 24, which can be formed from canvas, or the like. The outer end of the canvas 24 can carry tie straps 25, the purpose of which will also be later set forth.

In order to hold the frame in a raised elevated position out of the way, or in a swung down position, I rigidly mount within the casing 12 a ratchet wheel 26. This ratchet wheel 26 can be rigidly secured to a supporting bracket 27 carried by the casing. The shaft 18 may extend through the ratchet wheel, and has formed

thereon or secured thereto a yoke 28. Rotatably extending through the yoke 28 and the casing 12 is a rock shaft 29, and this rock shaft carries a pawl or dog 30 for engaging the ratchet wheel. In order to rock the shaft 29, and actuate the pawl 30 from either side of the frame, the opposite ends of the rock shaft can have secured thereto crank arms 31. These crank arms 31 are connected by means of links 32 with pivoted operating handles 33 mounted on the side arms 19. Obviously by rocking the handle 33 the dog or pawl 30 can be moved away from the ratchet wheel 36.

As stated, the device D is particularly adapted for use in protecting automobiles from the elements when the same are parked in the open, and in use of my invention the automobile A can be driven in close proximity to the housing 12. The operator by releasing the pawl 30 can swing the frame downwardly over the hood of the automobile, and the frame can be held in such position upon release of the pawl 30. The canvas apron 21 carried by the frame will protect the hood of the automobile, and the canvas covering 24 can be pulled from off of the roller and over the top of the automobile. The straps 25 can be firmly secured to the bumper 11 of the automobile, or at any other convenient point.

The roller 23 can be provided with an operating crank 34 so as to facilitate the winding of the canvas on the roller, and the crank can be locked in an adjusted position through the use of a detent 36 slidably carried by the crank handle. The detent 36 can be normally urged toward an arm 19 by means of a leaf spring 37, and the arm can be provided with keeper openings 38 for receiving the detent.

Where the housing 12 cannot be conveniently attached to the side of a building, I can provide a supporting standard 39, which can be anchored in any preferred manner in the ground. The upper end of the standard can carry a casing 40 for receiving the operating parts of my device, which can be the same as or similar to the parts heretofore described.

From the foregoing description it can be seen that I have provided an exceptionally simple and durable appliance for protecting the finish of automobiles when the same are parked out in the open air.

Changes in details may be made without departing from the spirit or scope of my invention, but what I claim as new is:

1. A collapsible shelter for automobiles comprising a swinging frame movable toward and away from the hood of an automobile, a canvas apron carried by said frame for the hood, releasable means for holding the frame in an adjusted position, a roller carried by the outer end of the frame, and a canvas covering normally wound on said roller adapted to be moved over the top of an automobile.

2. A collapsible shelter for automobiles comprising a swinging frame movable toward and away from the hood of an automobile, a canvas apron carried by said support movable over the hood of an automobile driven adjacent to said support, means for holding the frame in an adjusted position over the hood of an automobile, a protecting apron carried by the support for the automobile hood, a rotatable roller carried by the outer end of the frame, a protecting cover for the body of the automobile normally wound upon said roller, and means for rotating the roller.

3. A collapsible shelter for automobiles comprising a casing supported in an elevated position, a main shaft rotatably carried by the casing, side arms rigidly secured to the main shaft, a projecting apron carried by the side arms for the hood of an automobile, a rotatable roller carried by the outer ends of the side arms, a canvas covering for the body of the automobile normally wound upon said roller, means for rotating said roller, a ratchet wheel rigidly secured in the casing, a rock shaft carried by said arms, a dog mounted on the rock shaft movable into and out of engagement with the ratchet wheel, and means for actuating the rock shaft.

CHARLES W. HUTCHINSON.