

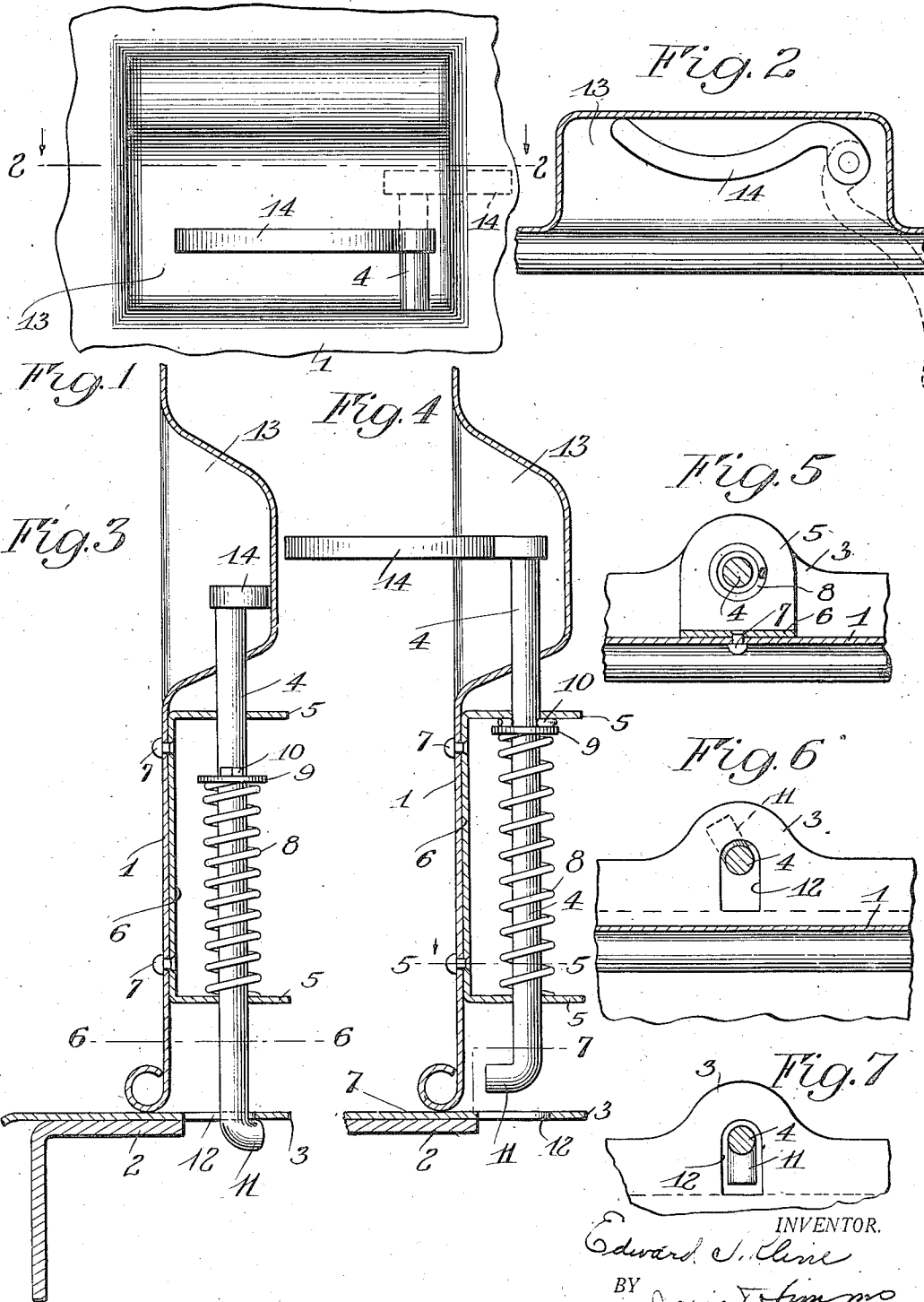
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E. S. KLINE

LOCKING MECHANISM FOR AUTOMOBILE HOODS

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INVENTOR.
Edward S. Kline
BY David T. Simms
his ATTORNEYS.

UNITED STATES PATENT OFFICE.

EDWARD S. KLINE, OF ROCHESTER, NEW YORK.

LOCKING MECHANISM FOR AUTOMOBILE HOODS.

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To all whom it may concern:

Be it known that I, EDWARD S. KLINE, a citizen of the United States, and resident of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Locking Mechanisms for Automobile Hoods, of which the following is a specification.

The present invention relates to locking mechanisms for automobile hoods and more particularly to the type in which a keeper is provided on a fixed part of an automobile enclosed by the hood and adapted to be engaged by a latch arranged on the hood, an object of this invention being to provide a construction in which the operating part of the latch does not project, when in latching position, beyond the lines of the hood. A further object of the invention is to provide a construction in which the operating part of the latch lies in a pocket in the hood and is adapted, when moved to unlatching position to project from the pocket to operate the latch or for raising or lowering the hood.

To these and other ends, the invention consists of certain parts and combinations of parts, all of which will be hereinafter described, the novel features being pointed out in the appended claims.

In the drawings:

Fig. 1 is a face view of a fragment of a hood adjacent the pocket;

Fig. 2 is a section on the line 2—2, Fig. 1;

Fig. 3 is a vertical section through the hood showing the latch in latching position;

Fig. 4 is a similar view showing the latch in unlatching position;

Fig. 5 is a section on the line 5—5, Fig. 4;

Fig. 6 is a section on the line 6—6, Fig. 3; and

Fig. 7 is a section on the line 7—7, Fig. 4.

Referring more particularly to the drawings, 1 indicates the hood which is mounted in any suitable manner so as to move toward and from a fixed part 2. Rigidly secured to the fixed part on the inner side of the hood is a keeper 3 with which the latch 4 is adapted to cooperate.

The latch 4 which, in this instance, is in the form of a rod which has a turning movement about its longitudinal axis and also a longitudinal movement, the rod for this purpose being mounted in two bearings 5 forming the arms of a U-shaped member,

the connecting portion 6 of which is secured to the inner face of the hood by rivets 7 or otherwise, so that the bearing arms 5 lie on the inner side of the hood. A helical spring 8 has a bearing at its lower end against the upper arm 5 and at its upper end against a loose collar 9 resting against a cotter pin 10 passing through the rod and adapted to cooperate with the under surface of the upper arm 5 to limit the upward movement of the latch under the action of the spring 8. The lower end of this rod 4 is turned laterally at 11 and this laterally turned portion cooperates with the keeper 3, which, in order to establish the cooperation is provided with a slot 12 through which the laterally turned end may pass when the end is in the position shown in Figs. 4 and 7, and the rod is depressed against the action of the spring 8. Thereafter, the rod is turned in a manner to be described, bringing the laterally turned portion 11 under the under side of the keeper 3 to one side of the slot, as shown in Figs. 3 and 6.

With the end in view of effecting the longitudinal and turning movement of the latch from the exterior of the hood, the latter is provided in its outer face with a pocket 13 formed in any suitable manner as by pressing the material of the hood inwardly in any suitable shape over the bearings 5, so that the rod may extend above the uppermost bearing 5 through the lower wall of the pocket to project into the latter. On the upper end of the latch or bolt 4, an operating arm or member 14 is provided which, when the latch is engaged with the keeper, lies within the pocket and, when the latch is turned so as to engage or disengage with the keeper, projects outside of the pocket in order to permit ready manipulation thereof, being outside of the pocket, when the latch is moved toward the keeper and also when moved away from the keeper. This arm may also be utilized for raising and lowering the hood.

From the foregoing it will be seen that there has been provided a fastening device for hoods of automobiles in which the latch has all portions thereof arranged under the hood except the operating portions, and this lies within a pocket formed in the front face of the hood in order to permit the fastener to be manipulated and the

hood to be raised and lowered. The latch is of simple construction and is durable in use.

What I claim as my invention and desire to secure by Letters Patent is:

1. The combination with a hood of an automobile having a pocket in an exterior wall and a keeper arranged on a fixed part on the inner side of the hood, of a rotatable latch for cooperating with the keeper, said latch having an arm rigid therewith lying within the pocket when the latch is engaged with the keeper and movable to project from the pocket when the latch is rotated to disengage the latch from the keeper, to act as a handle through which the hood may be raised and lowered.

2. The combination with a hood of an automobile having a pocket in its exterior wall, and a keeper arranged on a fixed part on the inner side of the hood, of a rotatable and axially movable latch for cooperating with said keeper, said latch having an operating arm lying within the pocket when the latch is engaged with the keeper and movable to project from the pocket so as to disengage the latch from the keeper to act as a handle through which the hood may be raised and lowered.

3. In combination with a hood of an automobile having a pocket in its exterior wall and a keeper arranged on a fixed part on the inner side of the hood, a rod having a turning and longitudinal movement below the pocket on the inner side of the

hood, extending through the pocket at its upper end and provided with a laterally extending portion at its lower end for cooperation with the keeper, a spring acting on said rod to move it in an upward direction, and an arm on the rod adapted to lie within the pocket when the laterally extending end engages the keeper, said arm projecting from the pocket when the laterally extending end is moved out of engagement with the keeper and acting as a handle through which the hood may be raised and lowered.

4. The combination with a hood of an automobile having a pocket in its exterior wall, and a keeper arranged on a fixed part on the inner side of the hood, two bearing members arranged on the inner side of the hood below the pocket, a rod having a turning and longitudinal movement in the bearing members, extending through the bottom of the pocket at its upper end and provided with a laterally extending portion at its lower end for cooperation with the keeper, a helical spring surrounding said rod between the bearings and tending to move the laterally extending portion away from the keeper, and an arm on said rod, adapted to lie within the pocket when the laterally extending end engages the keeper, said arm projecting from the pocket when the laterally extending end is arranged to move into or out of engagement with the keeper.

EDWARD S. KLINE.