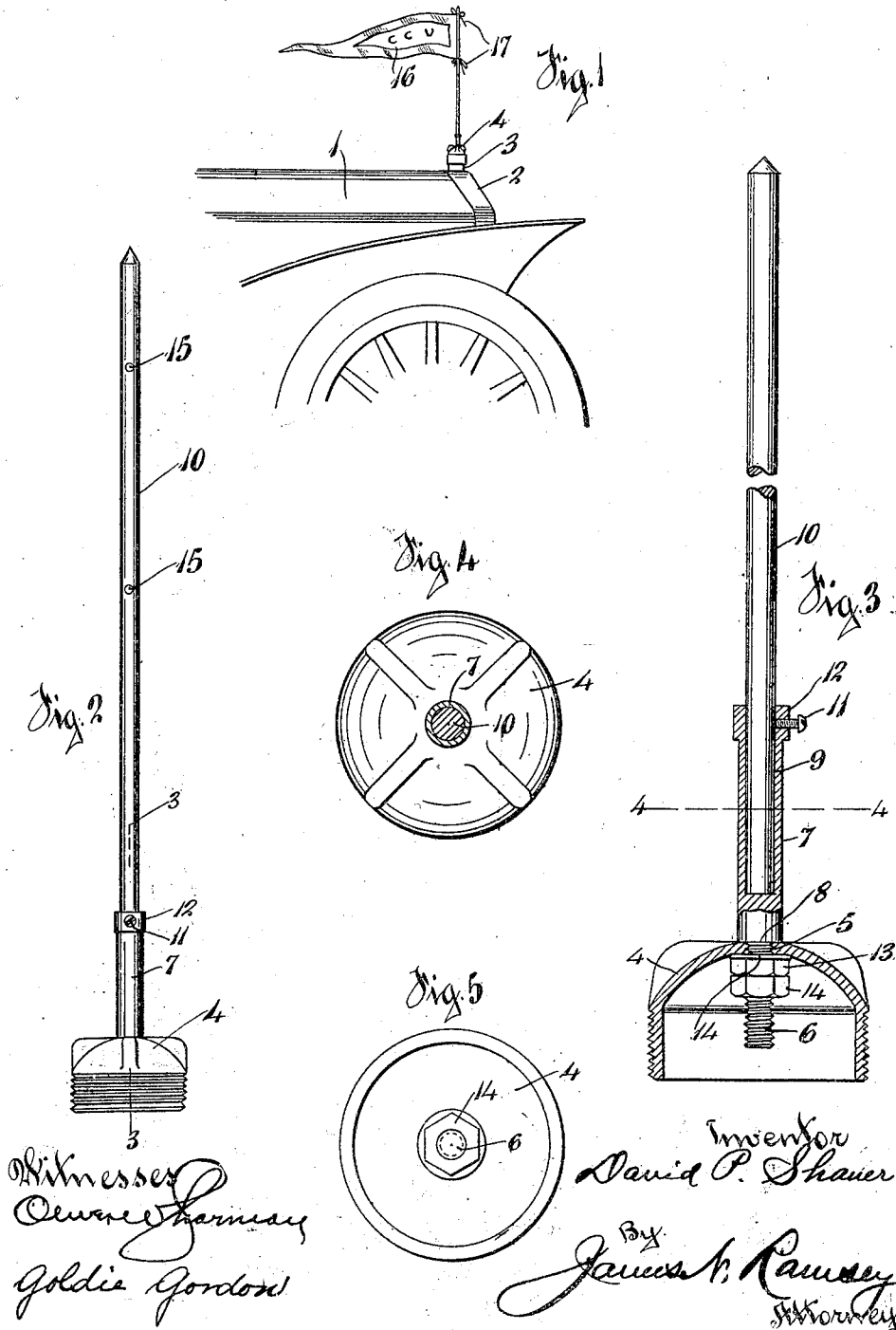


D. P. SHANER.
 AUTOMOBILE RADIATOR CAP ATTACHMENT.
 APPLICATION FILED OCT. 10, 1912.

1,090,573.

Patented Mar. 17, 1914.



UNITED STATES PATENT OFFICE.

DAVID P. SHANER, OF MOUNT HEALTHY, OHIO.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DAVID P. SHANER, a citizen of the United States, residing at Mount Healthy, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Automobile Radiator-Cap Attachments, of which the following is a specification.

My invention relates to means for attaching an accessory part to a motor vehicle; and the object of the invention is to provide such means of attachment as will effectively resist the tendency to loosen the attachment under the severe jar and vibration attendant upon the running of the motor vehicle.

My invention is more especially concerned with attachment of an accessory part to the cap of the radiator on a motor vehicle and I have illustrated my attachment as a support for a pennant holder on an automobile.

My invention consists in the parts and in the details of construction and arrangement of parts as will hereinafter be more fully described and claimed.

In the accompanying drawing, which serves to illustrate my invention: Figure 1 is a perspective view of the front portion of an automobile showing the radiator and cap with my device mounted thereon; Fig. 2 is an enlarged elevational view of my device mounted on the cap of the radiator; Fig. 3 is a longitudinal cross-section showing my device mounted on the cap of the radiator and illustrating more clearly the attaching means; Fig. 4 is a cross-section taken on the line 4-4 of Fig. 3; and Fig. 5 is a view looking up into the bottom of the cap.

In the embodiment of my invention, as illustrated, 1 represents a hood having a radiator 2 at the front thereof. The radiator has the usual neck 3 and cap 4, which latter is tapped at 5 to receive the threaded shank 6 of the standard 7. The threaded shank 6 is reduced in diameter to form a shoulder 8 on the standard which rests on the top of the cap 4.

The standard 7 is provided with a socket 9 for the admittance of the pennant mast 10 which is preferably held in place by a set screw 11 which passes through an annular shoulder or enlarged portion 12 at the top of said standard. The standard 7 is securely fastened to the cap 4 by means of the nut 13 which is preferably provided with the washer 14 (Fig. 3) interposed between said

nut and said cap. When the nut is tightened it is held securely in locked position by the lock nut 14. Thus the pennant holder is securely fastened to the cap of the radiator and forms a pennant holder which can be attached to any radiator cap.

Radiators vary in construction and they have different types of caps and necks and for this reason the pennant holders which are now in use are found to be useless on certain types of radiators. Some radiators are not provided with a neck large enough to clamp a pennant holder around, but every radiator is provided with a cap. Therefore, my device can be applied to any radiator of any type. The pennant mast 10 is provided with holes 15 for the strings 17 of the pennant 16 to pass through thereby forming a means of attaching the pennant to the mast.

It will thus be seen that my invention possesses the advantages of simplicity, cheapness of construction, firmness and rigidity, and neatness and compactness in arrangement.

One of the disadvantages heretofore encountered is the difficulty in preventing a pennant holder from getting loose due to the great vibration of the machines but by means of the construction as clearly illustrated in Fig. 3 I have overcome this difficulty and have provided a pennant holder which is absolutely firm with no danger of becoming loose by the vibrations of the machine. Another advantage of this construction and arrangement is that it is not an obstruction to the free use of the cap in opening and closing the radiator.

It will be understood that my invention is applicable in the attachment of accessory parts of other kinds to the radiator cap such as may be desirable. Therefore I do not wish to be understood as being limited to the precise example herein shown but

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

1. In a device of the character described, in combination with a radiator cap having an opening through its top, said opening being threaded, a holding element for an accessory part, comprising an upper enlarged portion exposed outside the cap, and a lower reduced threaded portion screwed through the threaded opening in the cap with its upper enlarged portion closely contacting with the upper side of the cap around the thread-

ed opening, a washer around said lower threaded portion inside the cap, a nut screwed onto the threaded portion, binding said washer tightly against the under side of the top of the cap and locking said threaded portion where it is screwed through the opening in the cap, and a lock nut screwed onto said threaded portion up against said nut and locking the nut, substantially as and for the purposes specified.

2. In a device of the character described, in combination with a radiator cap having an opening through its top, said opening being threaded, a holding element comprising an upper outwardly exposed socket for a pennant staff, and a lower reduced threaded portion screwed through the threaded open-

ing in the cap and having a shoulder at its junction with the socket, said shoulder being drawn tightly against the upper side of the cap around the threaded opening, a washer around said lower threaded portion and binding said washer tightly against the under side of the top of the cap and locking said threaded portion where it is screwed through the opening in the cap, and a lock nut screwed onto said threaded portion up against said nut and locking the nut, substantially as and for the purposes specified.

DAVID P. SHANER.

Witnesses:

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