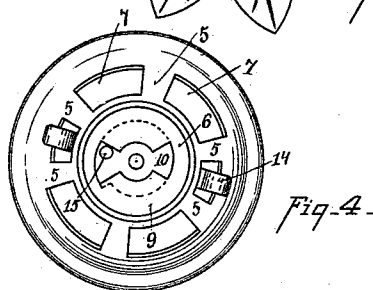
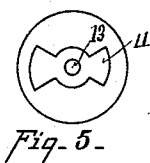
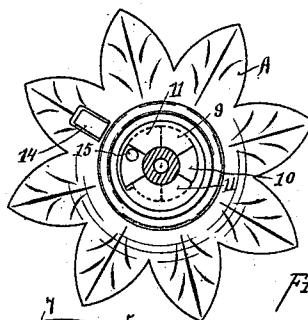
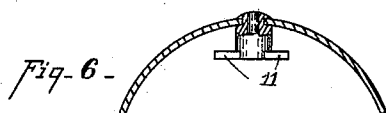
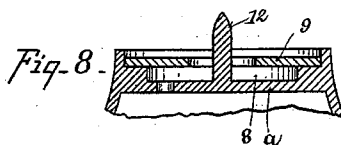
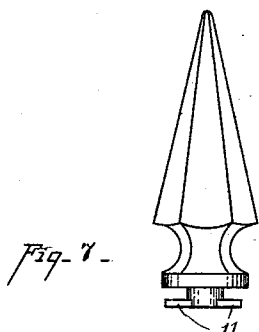
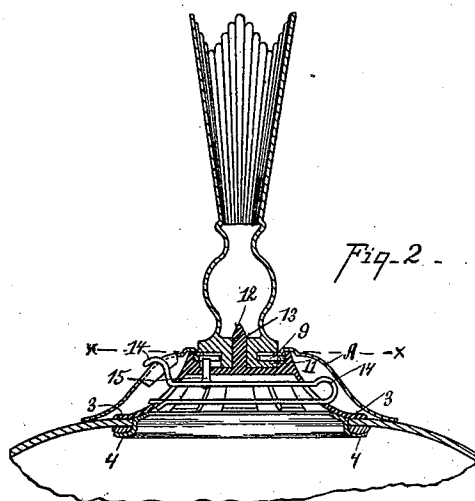
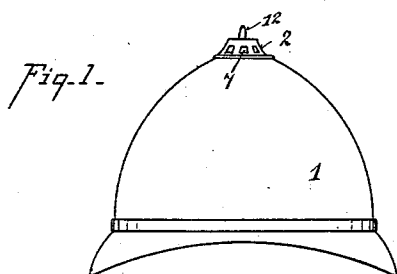


(No Model.)

C. HOPPE.
HELMET ATTACHMENT.

No. 470,131.

Patented Mar. 1, 1892.



Attest.
C. W. Miles
T. Simmons

Inventor.
Charles Hoppe
By Wood & Boyd, his Attorneys,

UNITED STATES PATENT OFFICE.

CHARLES HOPPE, OF CINCINNATI, OHIO, ASSIGNOR TO THE PETTIBONE
MANUFACTURING COMPANY, OF SAME PLACE.

HELMET ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 470,131, dated March 1, 1892.

Application filed December 28, 1891. Serial No. 416,335. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HOPPE, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Helmet Attachments, of which the following is a specification.

This invention relates to helmet or hat attachments used by policemen and military men; and has for its object to provide novel, simple, efficient, and economical means for detachably connecting a grommet ornament with the grommet of the hat or helmet.

To accomplish this object, my invention involves the features of construction and the combination or arrangement of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of the helmet with the grommet ornament or plume-socket removed. Fig. 2 is a central vertical section of the helmet and attachments, showing the plume-socket in position. Fig. 3 is a plan, partly in section, on line *x x*, Fig. 2. Fig. 4 is a plan view of the grommet and chair. Fig. 5 is a plan view of the lower end of the plume-socket. Fig. 6 is a sectional elevation of the conical cap adapted to be attached to the top of the helmet. Fig. 7 is an elevation of the finial or spike. Fig. 8 is an enlarged central vertical section of the chair.

1 represents an ordinary helmet-hat; 2, a grommet, which is shown in the preferred form of construction as secured in the circular opening in the top of the helmet by means of two flanges 3 4, embracing the top and bottom peripheral boundaries of the helmet.

5 represents radial spider-arms formed with the chair or base 6 and extending therefrom to the flange 3.

7 represents a series of ventilating-openings between the arms 5.

8 represents a recess formed between the bottom plate *a* of said chair and the top plate 9. 10 represents a segmental recess cut in the said top plate 9.

11 represents segmental wings attached to the bottom of the plume or finial corresponding in shape to the opening in the recess 10.

The wings 11 pass through the recess 10 and enter the recess 8, after which the wings may be turned and one of them secured by a spring locking-catch hereinafter explained.

12 represents a pintle or stem projecting up from the base of the chair.

13 represents a socket in the shank of the grommet ornament or plume-socket or finial.

14 represents a spring locking-catch comprising a locking-bolt 15. It is sometimes desirable to wear plume-sockets on the top of the helmet, at other times finials or spikes, at other times a cap, as shown in Fig. 6. I have shown all three of these devices, and they are adapted to be attached to the chair of the grommet and are operated in the following manner: The spring 14 is depressed, and the locking-bolt 15 mounted thereon is likewise depressed. If the plume-socket is to be used, the wings are inserted into the recess 10. They pass under the top plate 9. The spring is released and the locking-bolt 15 passes up behind one of said wings 11, which serves as a tumbler, as shown in Fig. 3, which prevents the plume-socket from being turned backward and taken out of its seat in the chair. I have shown the peripheral recess between the two plates made eccentric, so that the tumbler strikes against the periphery and stops the turning of the plume-socket forward. The lock-bolt prevents it from being turned backward, and it is thus securely held in position and braced by the two wings 11, resting between the plates *a* and 9, so that it is very firmly held in position and cannot be accidentally displaced. A stop might be used in place of the eccentric to limit the forward movement of the tumbler in the recess; but I prefer the eccentric or spiral, as the tumbler comes into firm engagement and prevents lost motion and rattle. The finial or spike in Fig. 7 can be readily substituted for the plume-socket. The ordinary ornamental cap shown in Fig. 6 can be put on over the grommet, if desired.

I do not confine myself to the pintle or stem 12 as fixed to the base or chair, nor do I confine myself to the particular shape shown of the wings 11 and recess 10.

Plumes, sockets, finials, and other orna-

mentations have hitherto been attached by means of a screw-thread on the shank and a nut engaging the same upon the inside of the helmet or hat. Such constructions require a
 5 good deal of time to change the parts, and the nuts are apt to be lost and the threads wear out rapidly and occasion a great deal of trouble and inconvenience, and the parts become
 10 loose and rattle; but by means of the detach- ing locking devices fixed to the grommet and to the plume-socket or finial these parts can be readily attached and interchanged at will.

A represents an ornamental rosette, which, as shown in Fig. 2, is clamped between the
 15 chair and plume-socket.

Having described my invention, what I claim is--

1. The combination, with a helmet-grom- met having a locking-recess 8, of a grommet
 20 ornament having a winged projection 11 en- tering the locking-recess, and a locking device detachably engaging the winged projection in the recess, substantially as described.

2. The combination, with a helmet-grom- met having a recess 10 and a locking-recess
 25 8, of a grommet ornament having a projection comprising two wings 11, adapted to pass through the recess 10 and enter the locking- recess 8, and a spring-catch detachably en-
 30 gaging one of the wings in the recess, sub- stantially as described.

3. The combination, with a helmet, of a grommet comprising a chair or base-piece 6, having a locking-recess 8, a grommet orna-
 35 ment having a winged projection entering the locking-recess, and a spring-catch carried by the chair or base and detachably engaging the winged projection in the locking-recess, substantially as described.

4. The combination, with a helmet, of a grommet comprising a chair or base-piece 6,
 40 having a bottom plate *a*, a top plate 9, having a recess 10 and a locking-recess 8 between the two plates, a grommet ornament having a winged projection 11 to pass through the re-
 45 cess 10 into the locking-recess 8, and a locking- catch carried by the chair or base and de- tachably engaging the winged projection in the locking-recess, substantially as described.

5. The combination, with a helmet-grom- met having a locking-recess 8 and a pintle or
 50 stem 12, of a grommet ornament having a winged projection 11 and a socket 13, and a locking-catch detachably engaging the winged projection in the locking-recess, substantially
 55 as described.

In testimony whereof I have hereunto set hand.

CHARLES HOPPE.

Witnesses:

T. SIMMONS,
 C. W. MILES.