

No. 735,172.

PATENTED AUG. 4, 1903.

D. K. STONE.  
VEHICLE POLE TIP.

APPLICATION FILED DEC. 15, 1902.

NO MODEL.

Fig. 1.

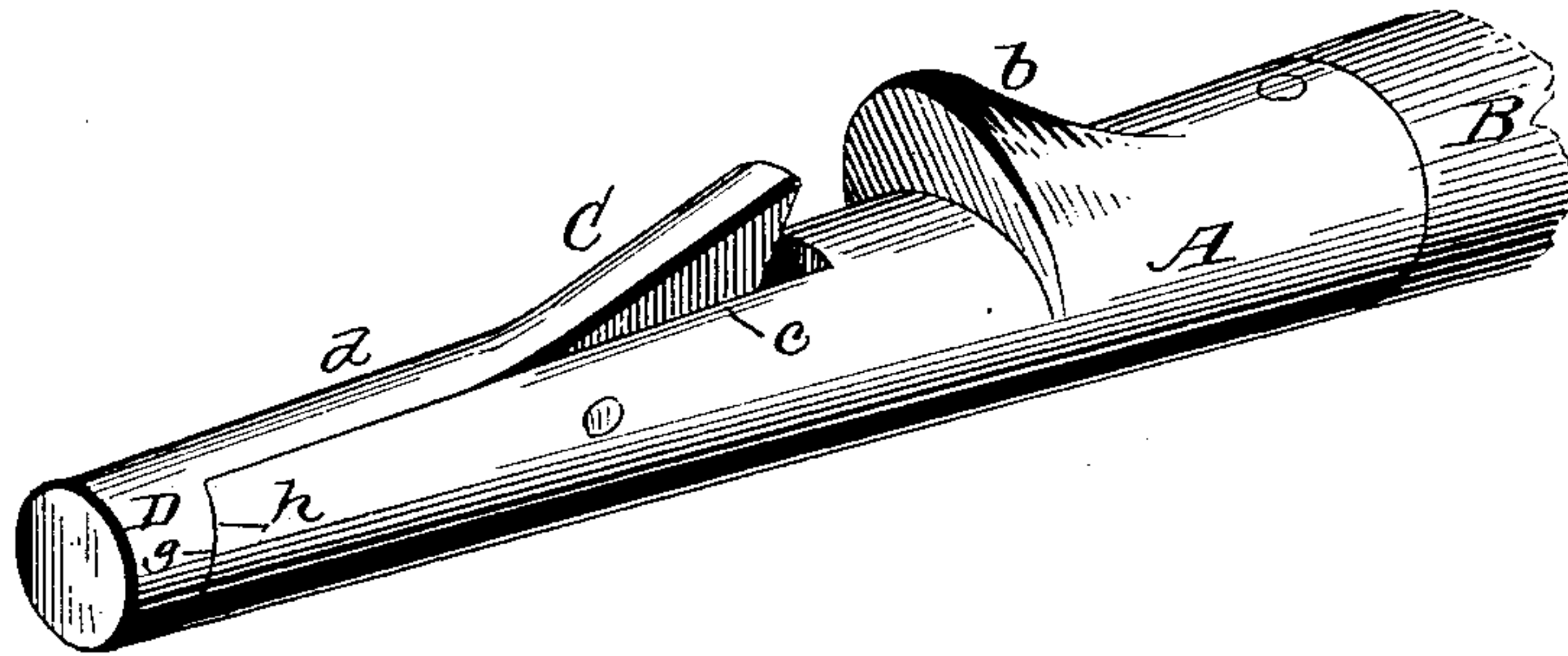


Fig. 2.

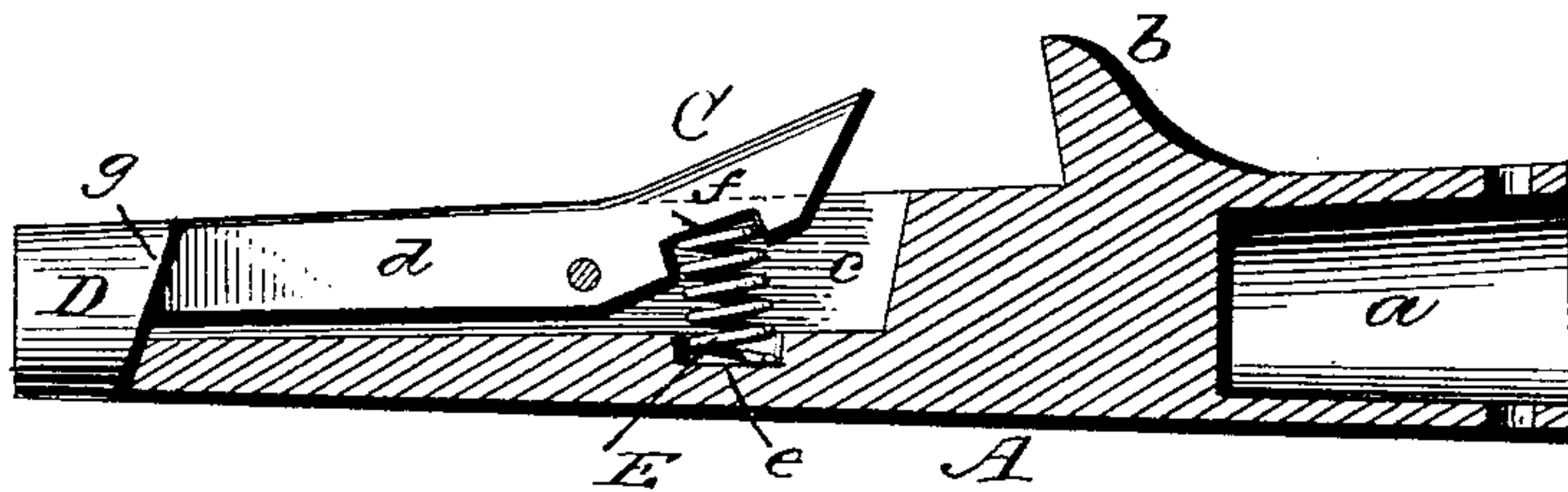
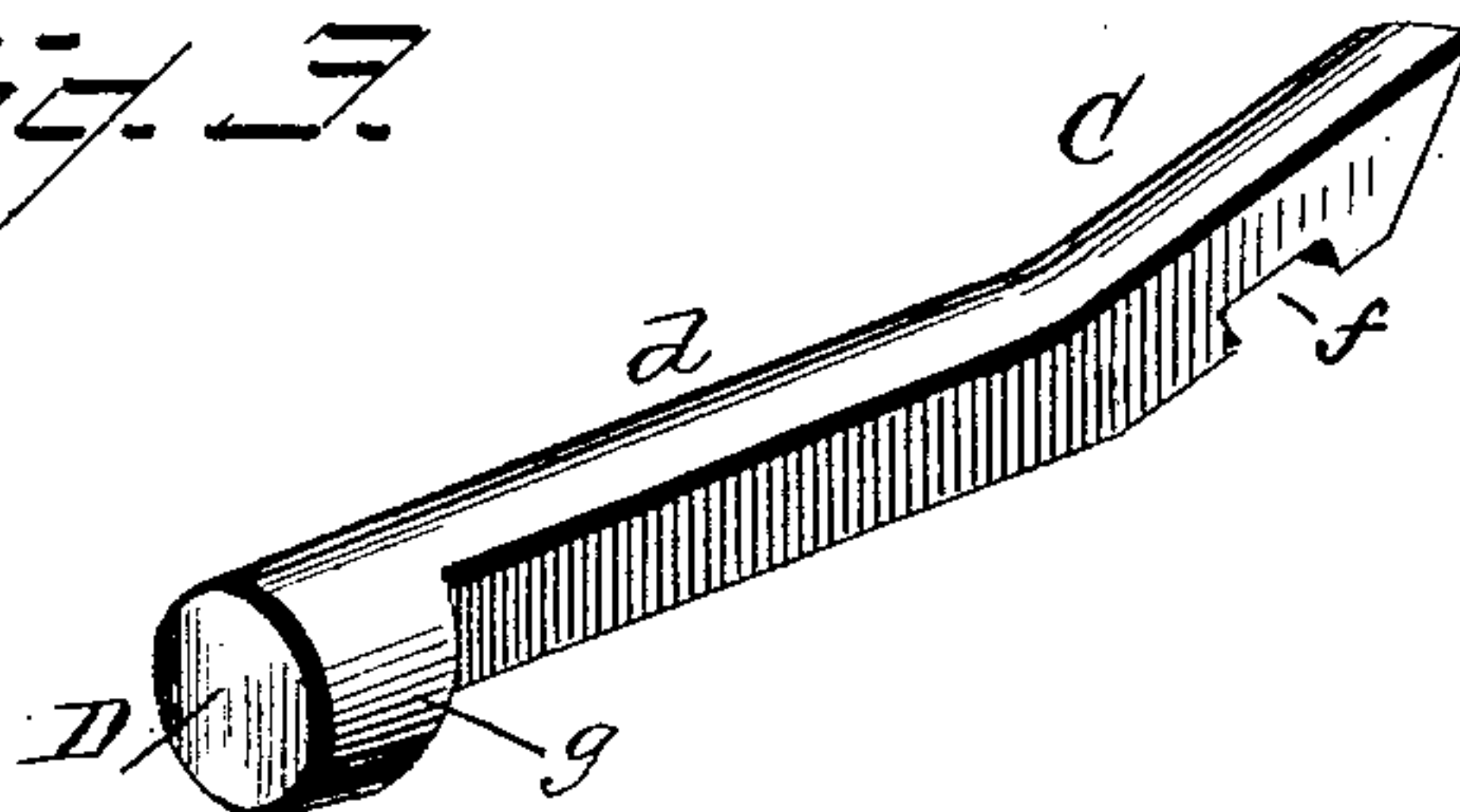


Fig. 3.



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Witnesses

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## UNITED STATES PATENT OFFICE.

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## VEHICLE-POLE TIP.

SPECIFICATION forming part of Letters Patent No. 735,172, dated August 4, 1903.

Application filed December 15, 1902. Serial No. 135,232. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID K. STONE, a citizen of the United States, residing at Bloomington, in the county of Van Buren and State of Michigan, have invented certain new and useful Improvements in Vehicle-Pole Tips; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has for its object to provide a metal tip for the poles of vehicles in which both strength and durability will be embodied therein and the spring-actuated latch device for holding the neck-yoke thereon will form the end or extremity of the tip and also serve as a handle to depress the latch when required. This construction of the spring-actuated latch, which has its bearing at the extremity of the pole-tip, will take undue strain off the spring and enable a very light spring to be used, thereby providing a pole-tip possessing material advantages in this class of devices.

The invention consists in a pole-tip constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings represents a perspective view of a pole-tip embodying my invention; Fig. 2, a side elevation, partly in section; Fig. 3, a detail perspective view of the latch device.

In the accompanying drawings, A represents a metal pole-tip, with the usual socket *a* to fit over the end of the pole B, said tip having the shoulder *b* to serve as a keeper in holding the neck-yoke between it and the spring-actuated latch device C. The pole-tip A is formed with a longitudinal recess *c*, in which is located the spring-actuated latch device C, pivoted to said pole-tip. It will be seen that the recess extends through the end or outer extremity of the pole-tip and in this respect is unlike the pole-tips in common use, which has an outer end wall to the recess, resulting in forming a trough for the accumulation of dirt. The spring-actuated latch

C has a forwardly-extending shank *d*, which terminates in a head D, adapted to bear against the outer end of the pole-tip to form a solid end and also serve as a handle to depress the latch device in removing or replacing the neck-yoke. The bottom of the recess *c* is formed with a mortised seat *e* for the lower end of a suitable spring E, the upper end of said spring engaging a suitable seat *f* upon the under side of the latch device C, as shown in Fig. 2 of the drawings. The head D is formed with inclined bearing *g* to engage correspondingly-formed bearing *h* on the end of the pole-tip, the inclination of the bearings permitting the head to be raised when it is desired to depress the latch device, which could not be done were the bearings straight. The head D not only forms the handle to the latch device, but forms the end or extremity of the pole-tip, and the head having its bearing against the end of the pole-tip at points *g h* there is less strain on the spring, and consequently a very light spring can be used.

The recess *c*, extending out through the end of the pole-tip A, enables any sand and grit that may accumulate in the recess to be readily removed by allowing water to run into the recess to wash it out, which otherwise would be difficult if the recess were closed by a wall at its outer end, resulting in forming a trough for the lodgment of dirt and grit which would affect the action of the spring and likewise the latch device.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A vehicle-pole tip having a longitudinal recess extending out through the end of the tip, the side walls of the recess at the ends thereof having inclined bearings, and a pivoted spring-actuated latch seated in the recess and having a head at its outer extremity with inclined bearings to correspond with those of the side walls of the recess, substantially as and for the purpose specified.

2. A vehicle-pole tip having a shoulder to serve as a keeper, a longitudinal recess formed in the tip and having a mortised seat,



said recess extending out through the end of  
the tip, a pivoted latch seated in the recess  
and having a grooved seat, a spring engaging  
the mortised and grooved seats, said latch  
5 having a shank terminating in a head to close  
the open end of the recess, substantially as  
and for the purpose described.

In testimony that I claim the above I have  
hereunto subscribed my name in the presence  
of two witnesses.

DAVID K. STONE.

Witnesses:

LEAH BABCOCK,  
FARBS ALLEN.