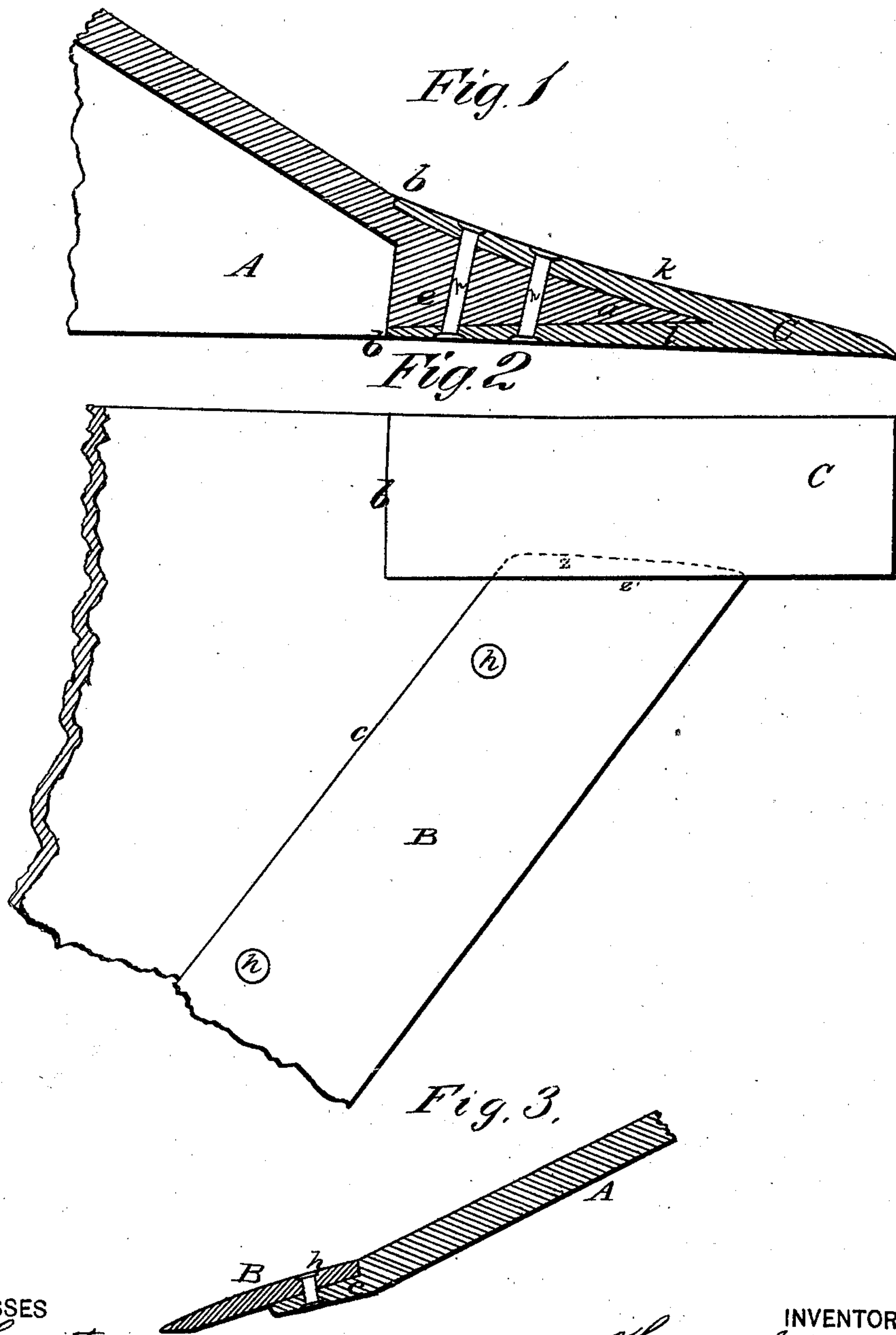


T. S. URIE.  
FLOW-POINT.

No. 171,068.

Patented Dec. 14, 1875.



WITNESSES  
*Robert Conant*  
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# UNITED STATES PATENT OFFICE.

THOMAS S. URIE, OF CARSON CITY, MICHIGAN.

## IMPROVEMENT IN PLOW-POINTS.

Specification forming part of Letters Patent No. **171,068**, dated December 14, 1875; application filed April 24, 1875.

*To all whom it may concern:*

Be it known that I, THOMAS S. URIE, of Carson City, in the county of Montcalm and State of Michigan, have invented a new and valuable Improvement in Plow-Points; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a longitudinal section of my plow-point, and Fig. 2 is a plan view of the same. Fig. 3 is a sectional detail view.

This invention has relation to means to prevent the undue wearing away of the share and nose of a cast-iron point; and it consists in the construction and novel arrangement of the steel-share edge let into the rabbeted edge of the casting, and the split or angular steel-point adapted to embrace the point of the casting, as hereinafter fully shown and described.

In the accompanying drawings, the letter A designates the point-casting, whereof the nose or point *a* is drawn out thin in the casting, and rabbeted above and below at *b b*, as indicated in the drawings. The share *c* is also rabbeted on its upper surface. On the under side of the casting the filling *e*, between the point-plate and land-side flange, serves to strengthen this portion materially. B designates the steel share. This is a comparatively thin plate of steel let into the rabbeted edge *c* of the casting, so that its surface will be flush therewith and firmly secured thereto by studs or rivets *h h*. C indicates the steel point. This consists of an angular piece of steel drawn to an edge at one end, and at the other divided and separated into an upper

branch, *k*, and a lower branch, *l*, which are designed to be seated, respectively, in the upper and lower rabbets of the nose of the casting, the lower branch *l* covering underneath the filling *e*. This steel point is designed to be rigidly secured to the casting by rivets or studs. This may be done in the following manner when the point is cast: The steel nose having been provided with perforations through each branch, suitably countersunk on the outside, is placed on the pattern in the sand, and when the pattern is withdrawn is left therein. The point is then cast by pouring the iron into the mold, and the holes through the branches will receive studs of the metal, whereby the steel will be firmly secured to the casting. The steel share may be attached in a similar manner; but riveting is here preferred, for convenience of repair. When the steel nose and share are not connected it is advisable to form a recessed groove, *z*, in the inside face of the steel nose to receive a beveled end or tenon, *z'*, of the share.

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

The casting A, having point *a*, rabbets *b b*, and the strengthening portion *e*, in combination with the angular steel point C, having upper branch *k*, and lower branch *l*, and rivets *h h*, constructed and arranged substantially as described, and for the purpose set forth.

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

THOMAS S. URIE.

Witnesses:

SENECA WOOLFORD,  
RUFUS WOOLFORD.