

(No Model.)

I. M. McKAY.
SAFETY SNAP HOOK.

No. 354,481.

Patented Dec. 14, 1886.

Fig. 1

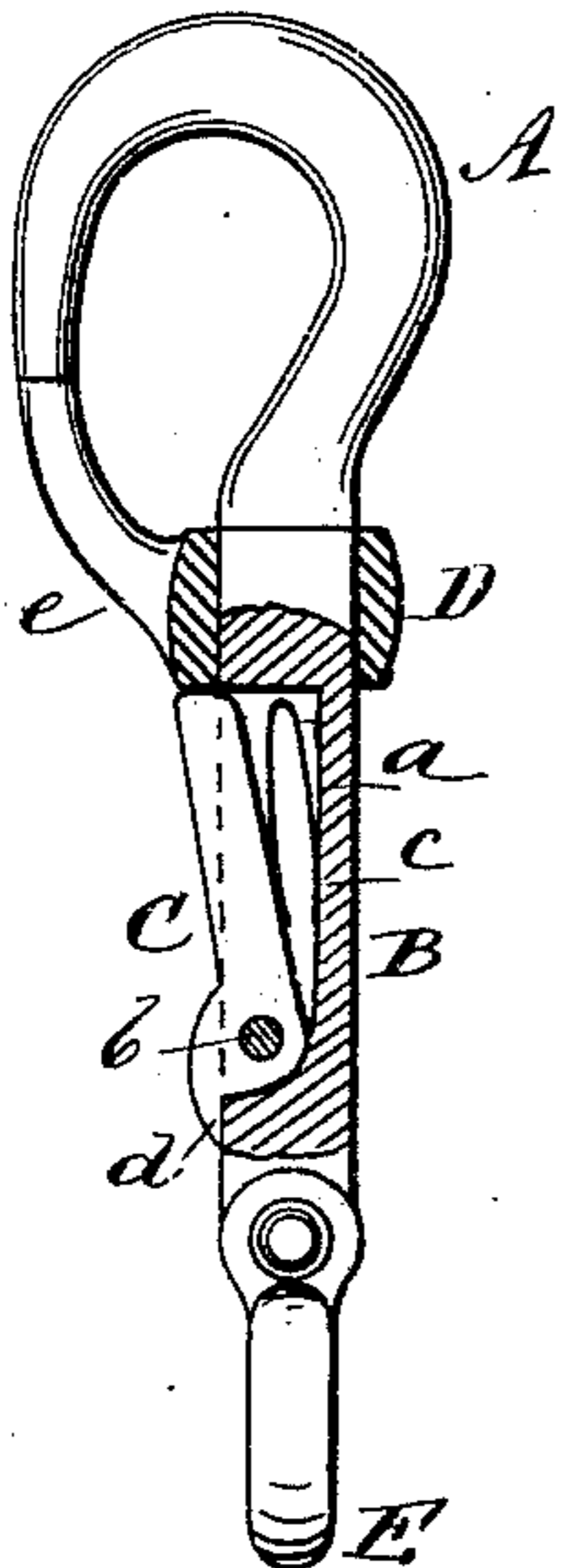


Fig. 2

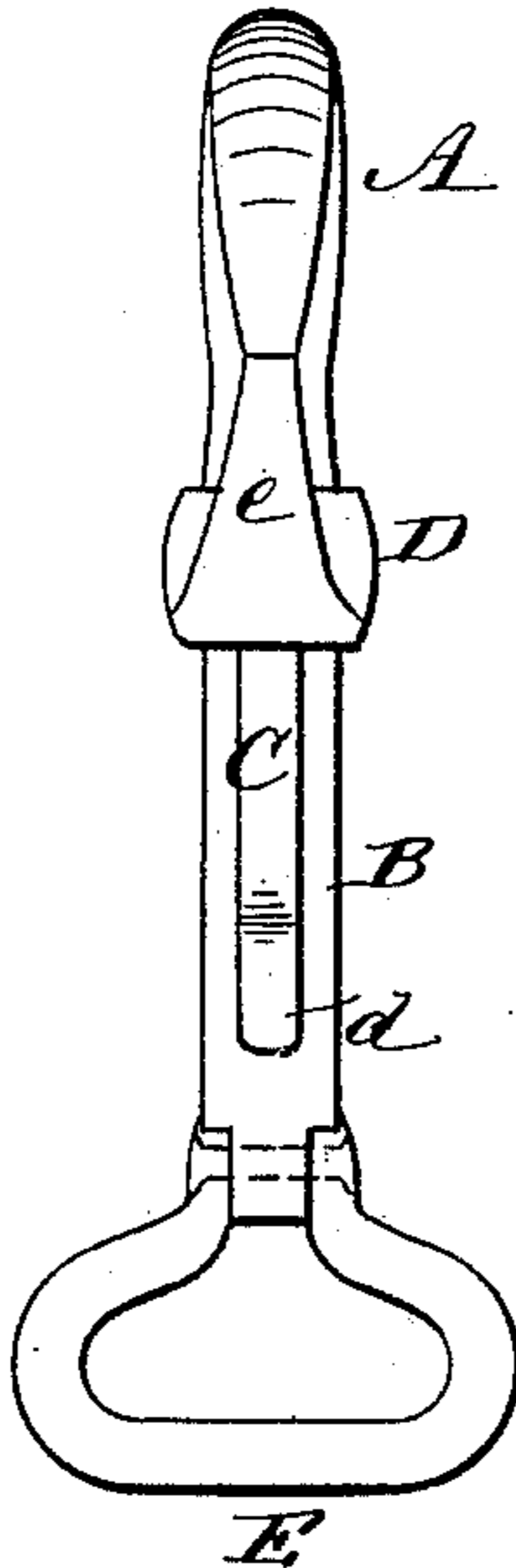
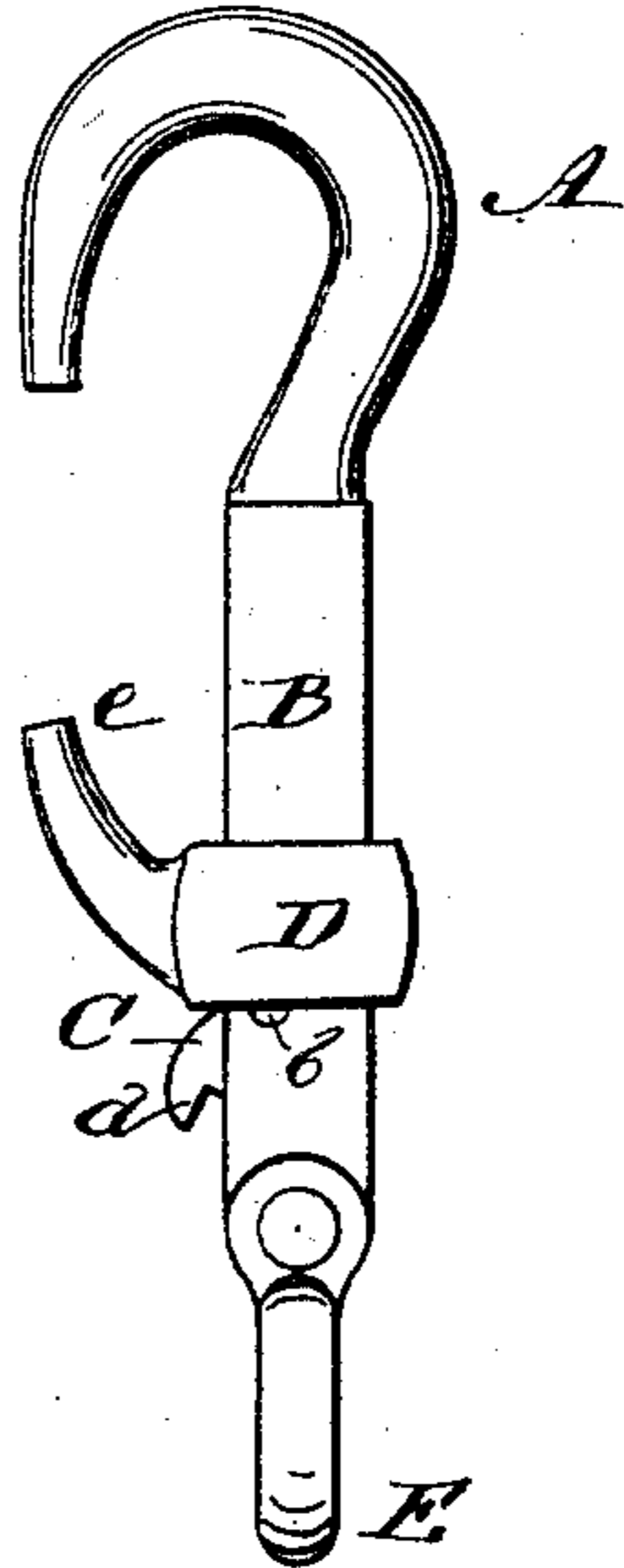


Fig. 3



WITNESSES:

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ISAAC MATHESON McKAY, OF ROCKLIN, CALIFORNIA, ASSIGNOR TO HIMSELF AND HENRY E. STAFFORD, OF SAME PLACE.

SAFETY SNAP-HOOK.

SPECIFICATION forming part of Letters Patent No. 354,481, dated December 14, 1886.

Application filed May 5, 1886. Serial No. 201,185. (No model.)

To all whom it may concern:

Be it known that I, ISAAC MATHESON McKAY, of Rocklin, in the county of Placer and State of California, have invented a new and useful Improvement in Safety Snap-Hooks, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a side elevation partly in section. Fig. 2 is a front elevation. Fig. 3 is a side elevation showing the snap-hook opened.

Similar letters of reference indicate corresponding parts in the different figures of the drawings.

My invention consists in a hook having a polygonal-chambered shank, and provided with an arm arranged to slide on the shank for closing the hook, and in a spring acted tongue for engaging the arm and holding it in a closed position.

The shank B of the hook A in the present case is square in cross-section, and is provided with a chamber, *a*, in which is pivoted a tongue, C, on the pin *b*. The tongue C is pressed outward by the V-shaped spring *c*, and its outward movement is limited by a finger, *d*, which reaches over the body of the shank below the pivot. The chamber *a* of the shank has sufficient depth to permit of pressing the tongue C into the chamber below the face of the shank B.

To the shank B is fitted a short sleeve, D, provided with a curved arm, *e*, which is bent forward and arranged to abut against the end of the hook A, as shown in Figs. 1 and 2.

The length of the sleeve D and the tongue C are so related to each other that when the end of the curved arm *e* is in contact with or very near the end of the hook A the tongue C will spring outward behind the end of the sleeve D, as shown in Fig. 1, and thus retain the sleeve and the arm *e* in position across the opening of the hook. In this position it will be seen that all of the strain brought to bear

upon the arm *e* or sleeve D is taken by the tongue C, and that the office of the spring *c* is merely to hold the tongue C in engagement with the sleeve D. When it is desired to open the snap-hook, the tongue C is pressed into the chamber *a* by the thumb or finger, when the sleeve D may be slid back, as shown in Fig. 3, thus opening the hook.

The end of the shank B is provided with the usual loop, E, for receiving a strap or chain.

My improved snap-hook is designed for use in connection with harness, ship's rigging, and mining and hauling machinery.

Although I have described the snap-hook as being provided with a square shank, it is obvious that the shank might be octagonal, or, if provided with a spline or slot and feather, it might be cylindrical in form, therefore I do not confine my invention to the exact form and proportions shown.

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

1. The combination, with the hook A, provided with a chambered shank, B, of the spring-acted tongue C, pivoted in the chamber, and the sliding sleeve D, provided with the arm *e*, the said sleeve sliding beyond the free end of the tongue to allow said tongue to spring outward and lock the sleeve in place, substantially as herein shown and described.

2. As an improved article of manufacture, a safety snap-hook formed of the hook A, having the chambered shank B, the tongue C, provided with the finger *d*, and pivoted in the chamber of the hook, the V-shaped spring *c*, placed in the chamber, and arranged to press the tongue outward, and the loop E, attached to the end of the shank, substantially as herein shown and described.

ISAAC MATHESON McKAY.

Witnesses:

HENRY E. STAFFORD,
JOHN CLYDESDALE.