

(No Model.)

J. KRUEGER.

EAVES TROUGH.

No. 358,936.

Patented Mar. 8, 1887.

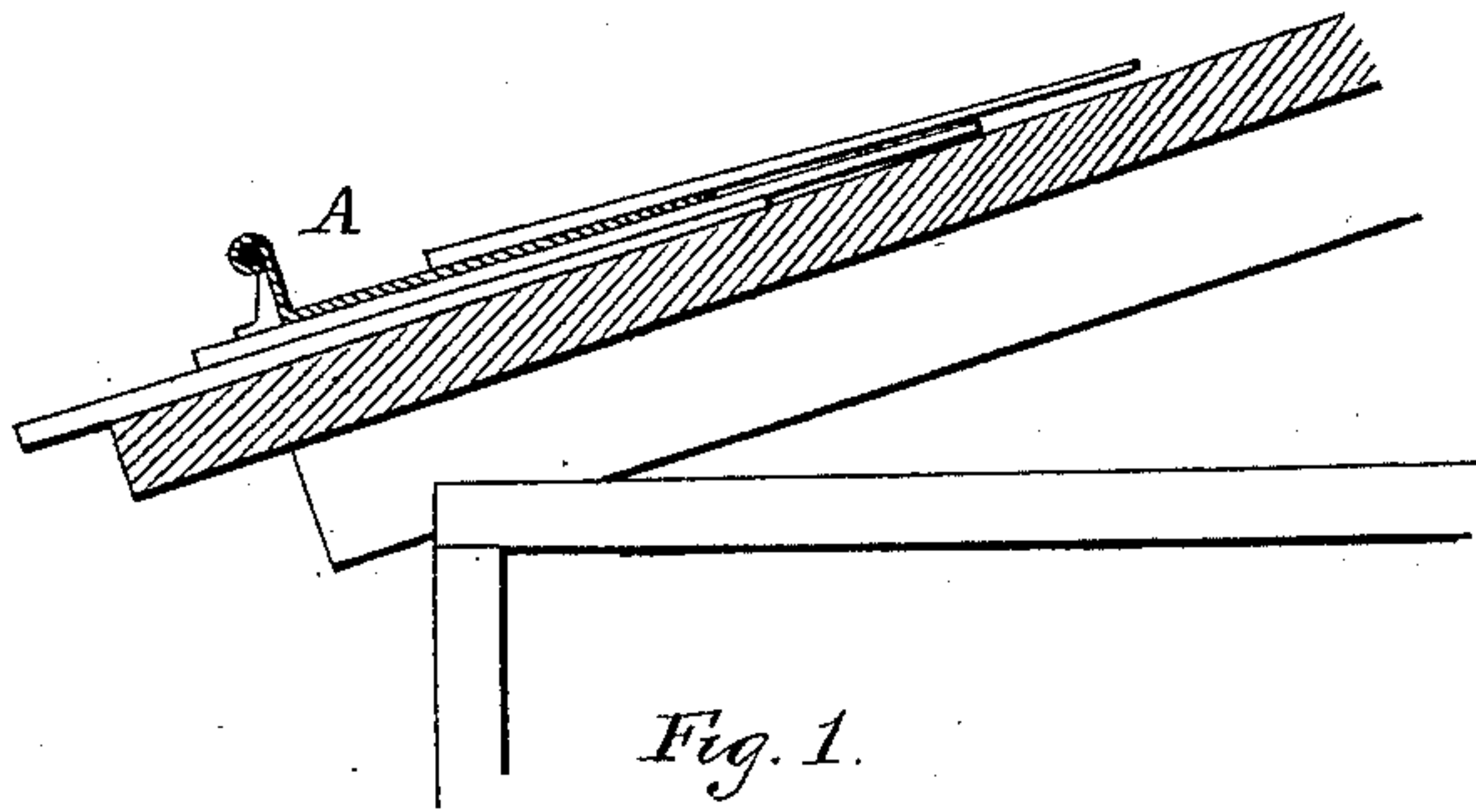


Fig. 1.

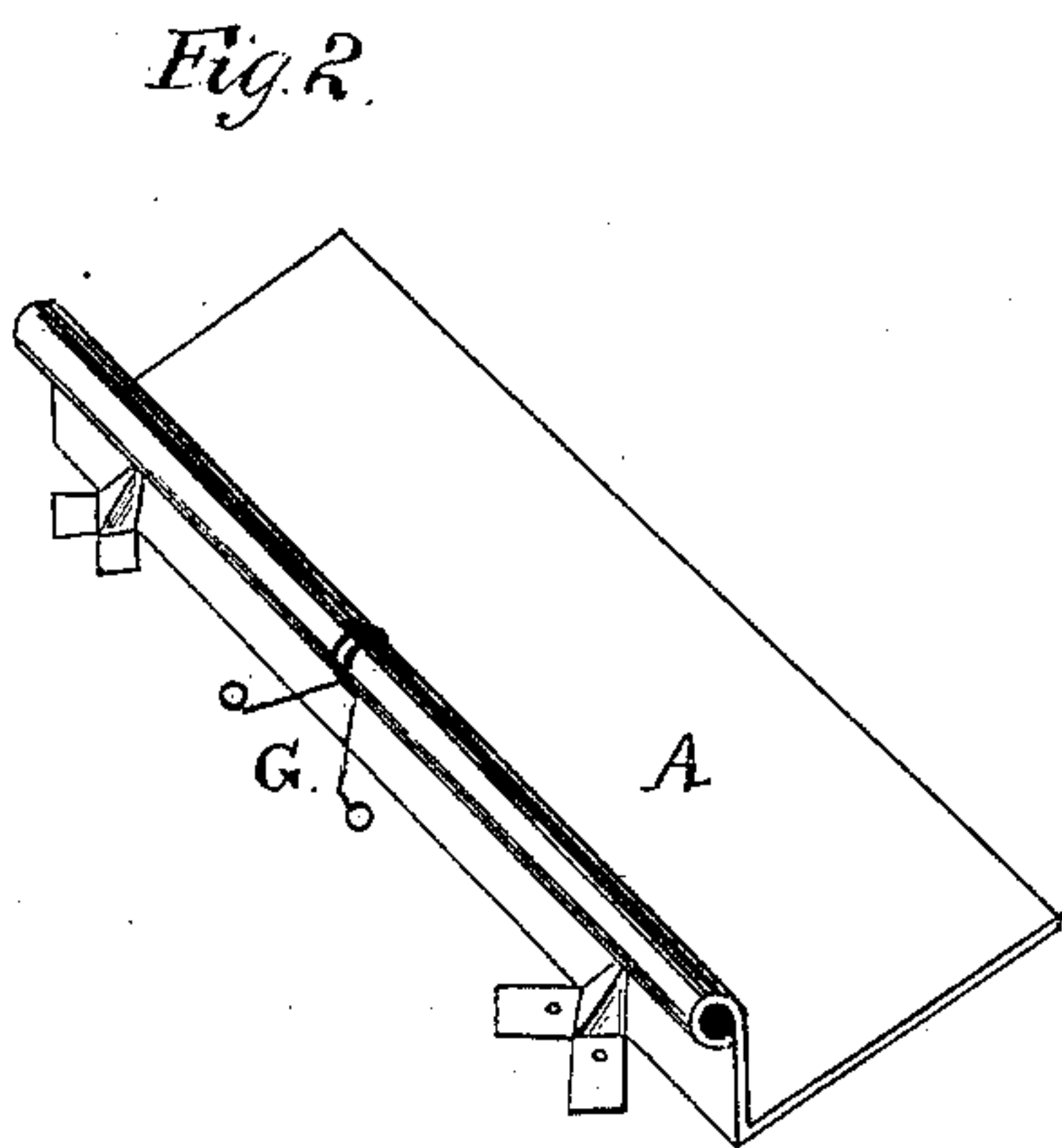


Fig. 2.

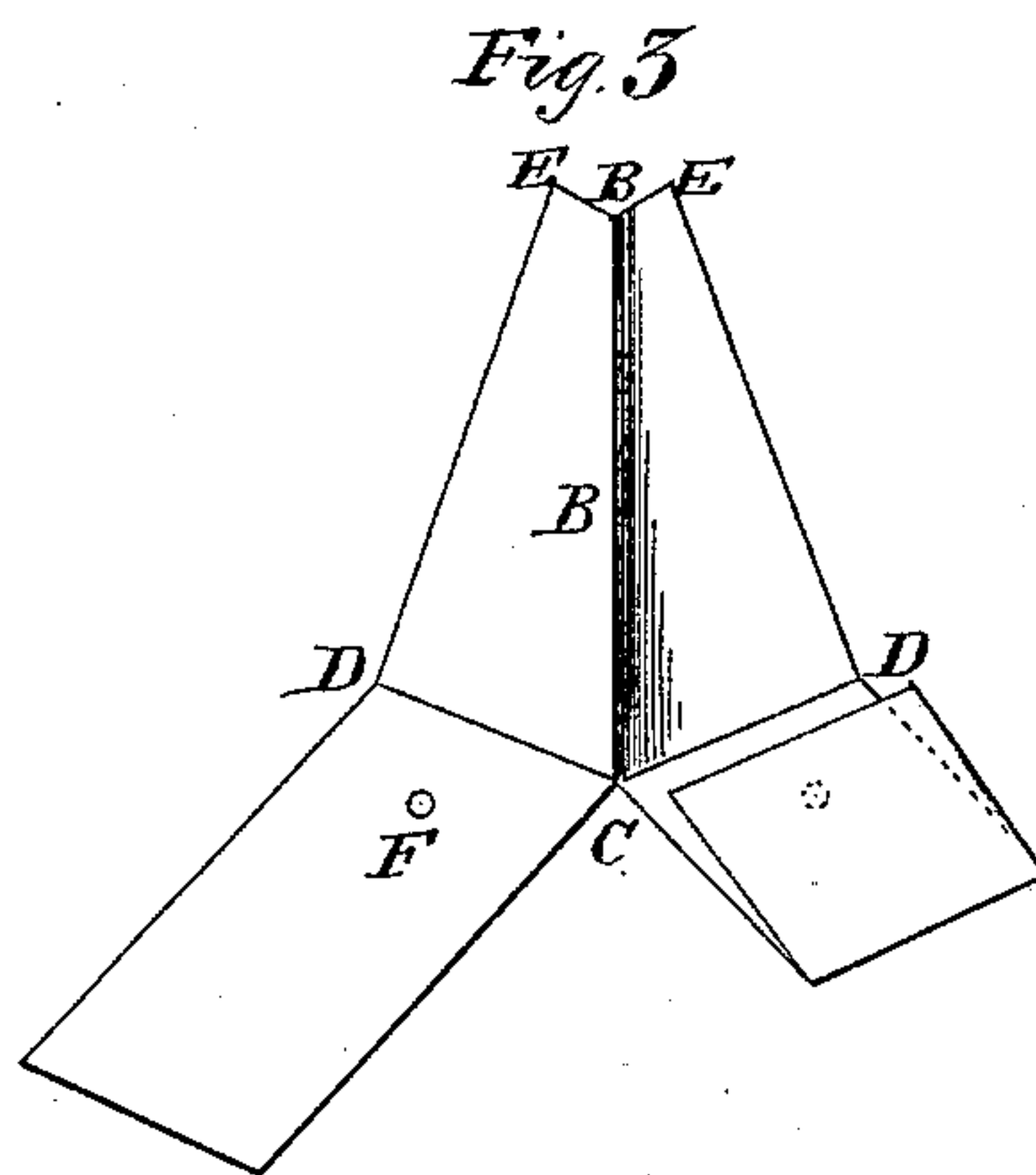


Fig. 3.

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UNITED STATES PATENT OFFICE.

JULIUS KRUEGER, OF COLUMBUS, WISCONSIN.

EAVES-TROUGH.

SPECIFICATION forming part of Letters Patent No. 358,936, dated March 8, 1887.

Application filed October 27, 1886. Serial No. 217,373. (No model.)

To all whom it may concern:

Be it known that I, JULIUS KRUEGER, a citizen of the United States, residing at Columbus, in the county of Columbia and State of Wisconsin, have invented a new and useful Improvement in Eaves-Troughs, of which the following is a specification.

My invention relates to improvements in eaves-troughs constructed of sheet metal, and of a class that are laid partly under the shingles near the bottom of the roof; and the object of my improvement is to provide a standing bracket on the lower side of the eaves-trough to prevent it from being bent downward, thereby supporting the trough and leaving a free water-course, along which ice or leaves can pass, and to so construct it that it may be firmly attached and not retain moisture to rot the roof. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a sectional view of roof with eaves-trough attached; Fig. 2, a view of the trough, and Fig. 3 a rear view of sheet-metal bracket.

Similar letters refer to similar parts throughout.

In the drawings, Fig. 1 represents a section of roof having inserted between the second and third courses of shingles the eaves-trough A. It is of the usual form of that class of troughs, but has no strap running from the roll to the roof above to support it, but has brackets cut from

a piece of sheet metal in form shown by Fig. 3, and attached at intervals, as in Fig. 2, A, by soldering or riveting to the lower side. This bracket is cut, as shown in Fig. 3, and bent to about a right angle along the line B C and bent to the angle of the roof at D C. The sides E D, Fig. 3, are attached to the trough, as shown in Fig. 2, A. In Fig. 3 one of the toes is shown with a hole, F, through which a nail is driven to fasten to the roof, while the other toe is shown as bent over to cover the nail-head, and may be soldered down. The angle E B E, Fig. 3, is left open to permit moisture to dry out, so as to not rot the roof below. A variation in the construction may be made by bending a wire to attach to the nails in the roof and loop around the roll of the trough, as shown at G, Fig. 2.

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

1. A sheet-metal eaves-trough having a bracket with toes to nail to the roof and long enough to fold over the nail-head and solder down, as herein described.

2. A bracket or brace for eaves-trough, having the upper end open under the roll of the trough, substantially as and for the purposes herein described.

JULIUS KRUEGER.

Witnesses:

GUST. MUELLER,
HENRY E. BIEL.