

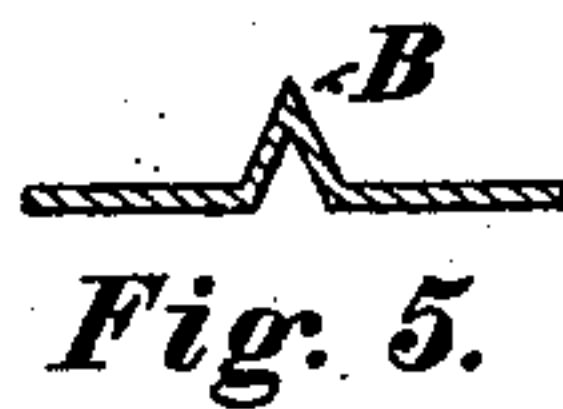
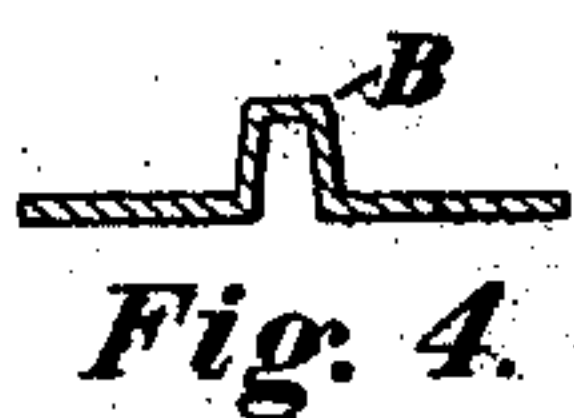
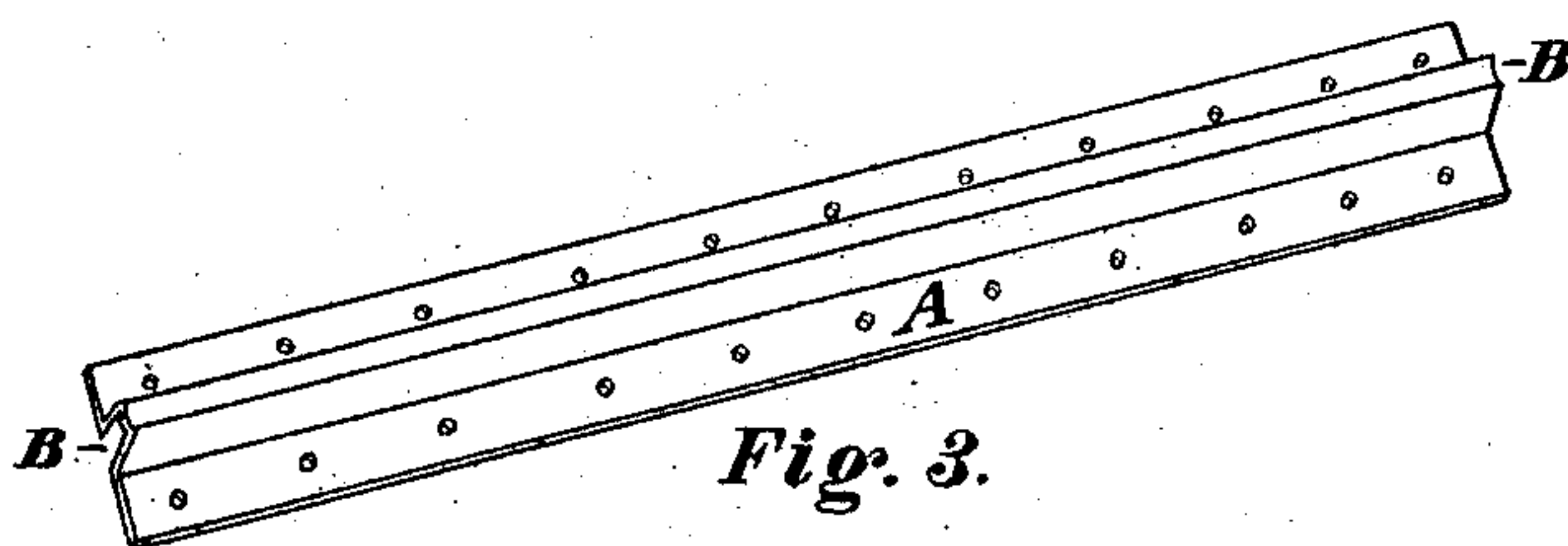
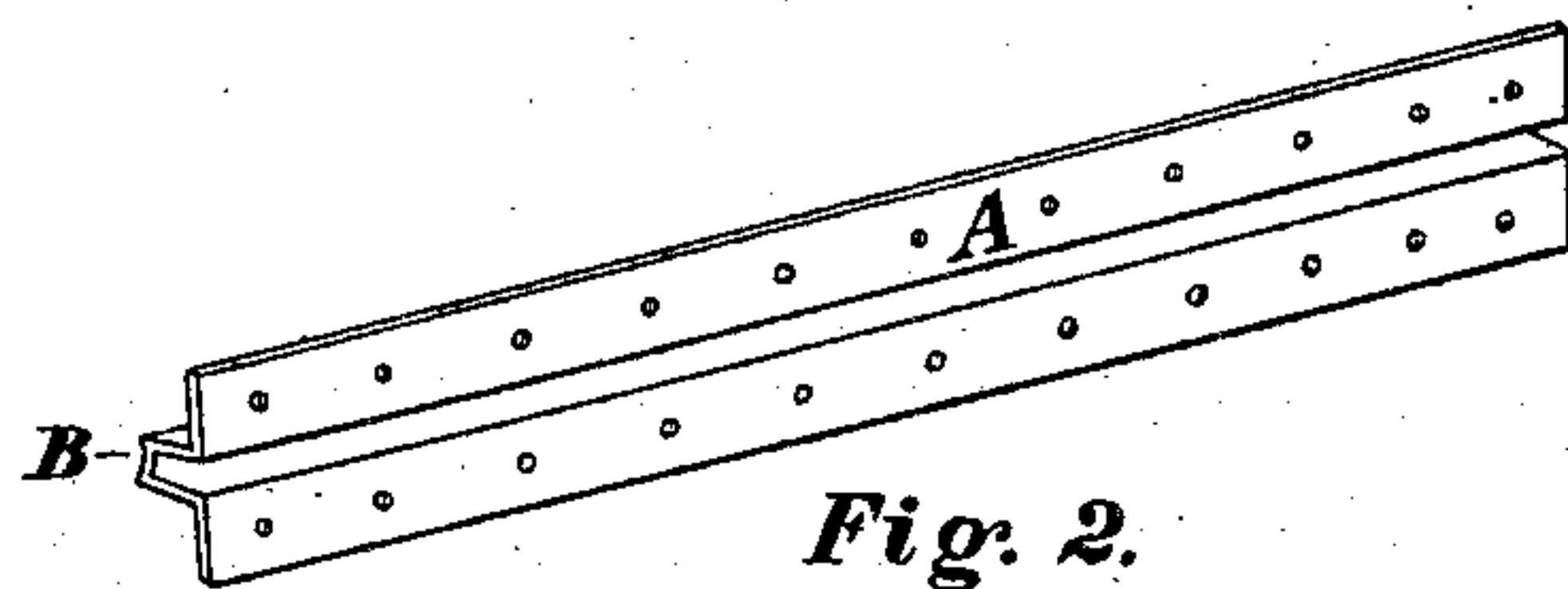
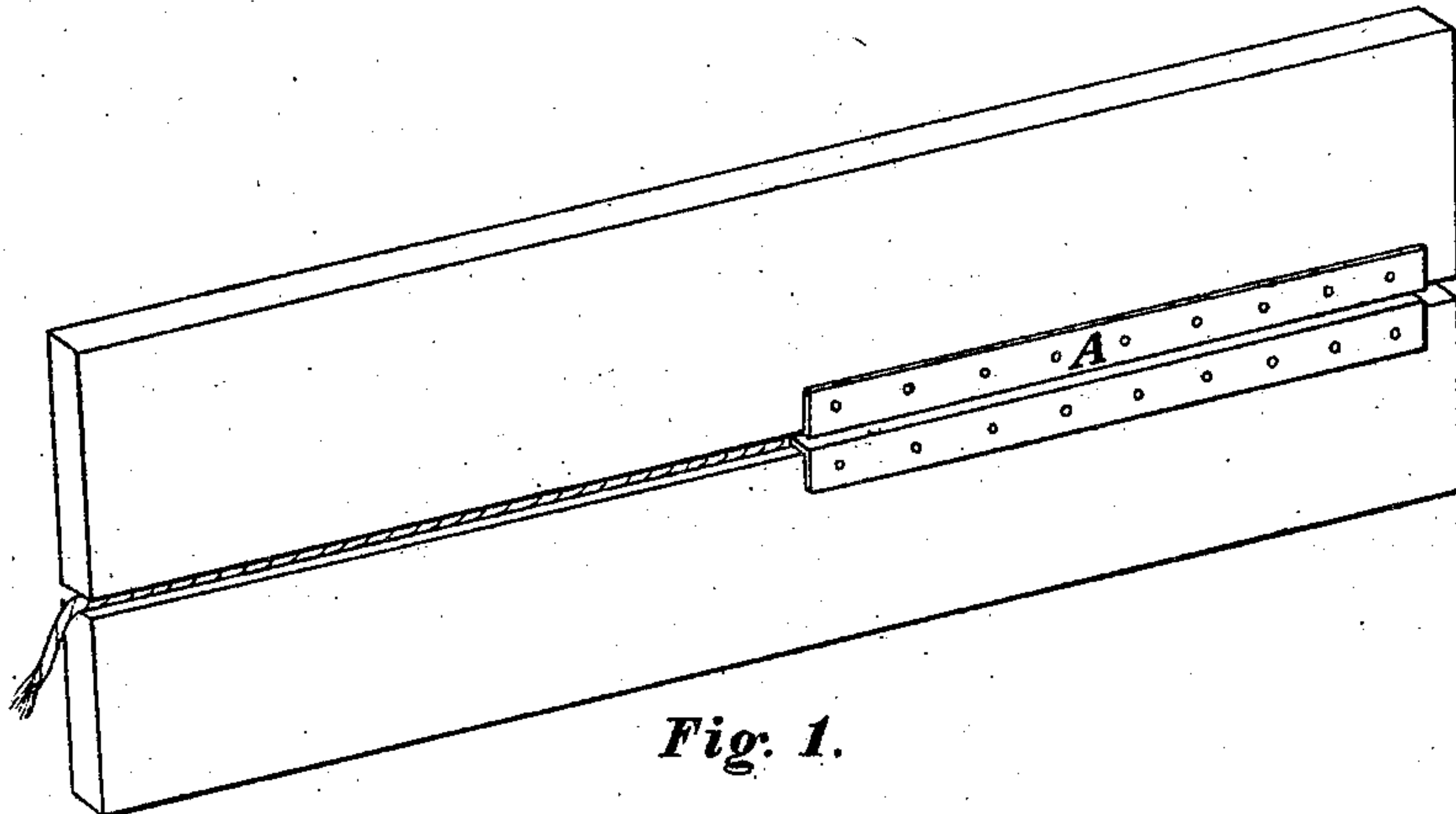
(No Model.)

A. F. STUBBS.

CALKING THE SEAMS OF CENTER BOARD WELLS.

No. 370,663.

Patented Sept. 27, 1887.



Witnesses:

Harry Stewart  
Byron Boyd

Inventor.

Abel F. Stubbs  
By J. R. Mason atty

# UNITED STATES PATENT OFFICE.

ABEL F. STUBBS, OF BANGOR, MAINE.

## CALKING THE SEAMS OF CENTER-BOARD WELLS.

SPECIFICATION forming part of Letters Patent No. 370,663, dated September 27, 1887.

Application filed February 8, 1887. Serial No. 226,891. (No model.)

*To all whom it may concern:*

Be it known that I, ABEL F. STUBBS, a citizen of the United States, residing at Bangor, in the county of Penobscot and State of Maine, have invented a new and useful Device for Holding the Calking in the Seams of the Wells of Center-Board Vessels; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improved device for holding the calking in the seams of the wells of center-board vessels, and is illustrated in the accompanying drawings, in which—

Figure 1 is an isometric view of a seam calked and partially fitted with my device. Figs. 2 and 3 are isometric views showing, respectively, the front and back of one form of my device. Figs. 4, 5, and 6 are cross-sections of modifications of my device, showing different forms of corrugations.

Similar letters refer to corresponding parts throughout the figures.

The seams of the hulls of vessels are calked from the outside. The pressure of the water being from without inward and in the direction in which the calking is driven, serves to assist in keeping the calking in position. In center-board vessels, however, the pressure of the water in the well which incases the center-board is outward and in the direction opposite to that in which the calking is driven, and thus constantly operates to force out the calking of the well.

The object of my invention is to provide a device whereby the calking of the well may be kept in position against this outward pressure of the water in the well, and that may not

be affected by the straining of the vessel and the opening and closing of the seams.

I accomplish my object by providing narrow strips, A, of sheet metal, preferably copper, yellow metal, or galvanized iron, formed with a longitudinal corrugation, B, of such width as to fit in the seams between the planking of the sides of the well and having sufficient width on each side the corrugation to admit of securing the strip to the adjacent edges of the planking on each side the seam by screws, nails, or other appropriate means.

The corrugation may be of any convenient shape in cross-section, and different shapes are shown in Figs. 4, 5, and 6. It serves a double purpose. It not only operates to crowd the calking into the seams and keep it there, but the whole device being constructed of somewhat flexible or elastic metal, the jaws of the corrugation open and close with the seams as the vessel strains, thus affording sufficient "give" or "play," and so preventing the strips being torn from their fastenings.

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

A device for holding the calking in the seams of the wells of center-board vessels, consisting of a narrow strip of elastic or flexible sheet metal having a longitudinal corrugation shaped to fit into the seams between the planks and of such width as to admit of its being screwed or otherwise secured to the edges of the planks on both sides of the seam, substantially as described.

ABEL F. STUBBS.

Witnesses:

HARRY D. STEWART,  
F. M. LAUGHTON.