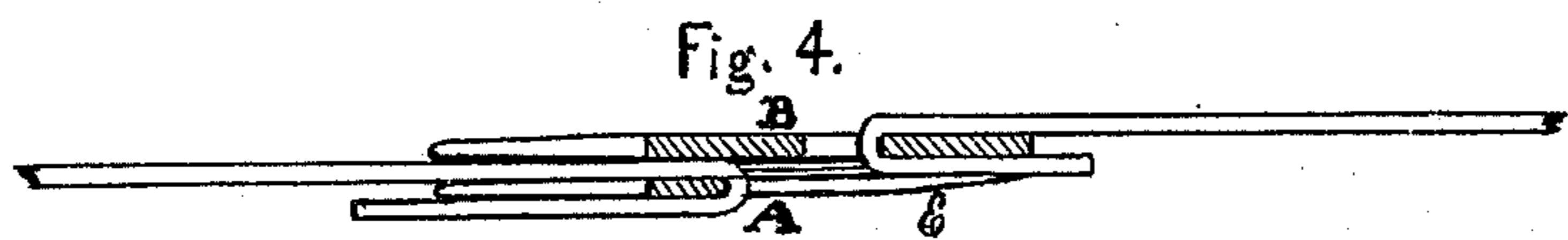
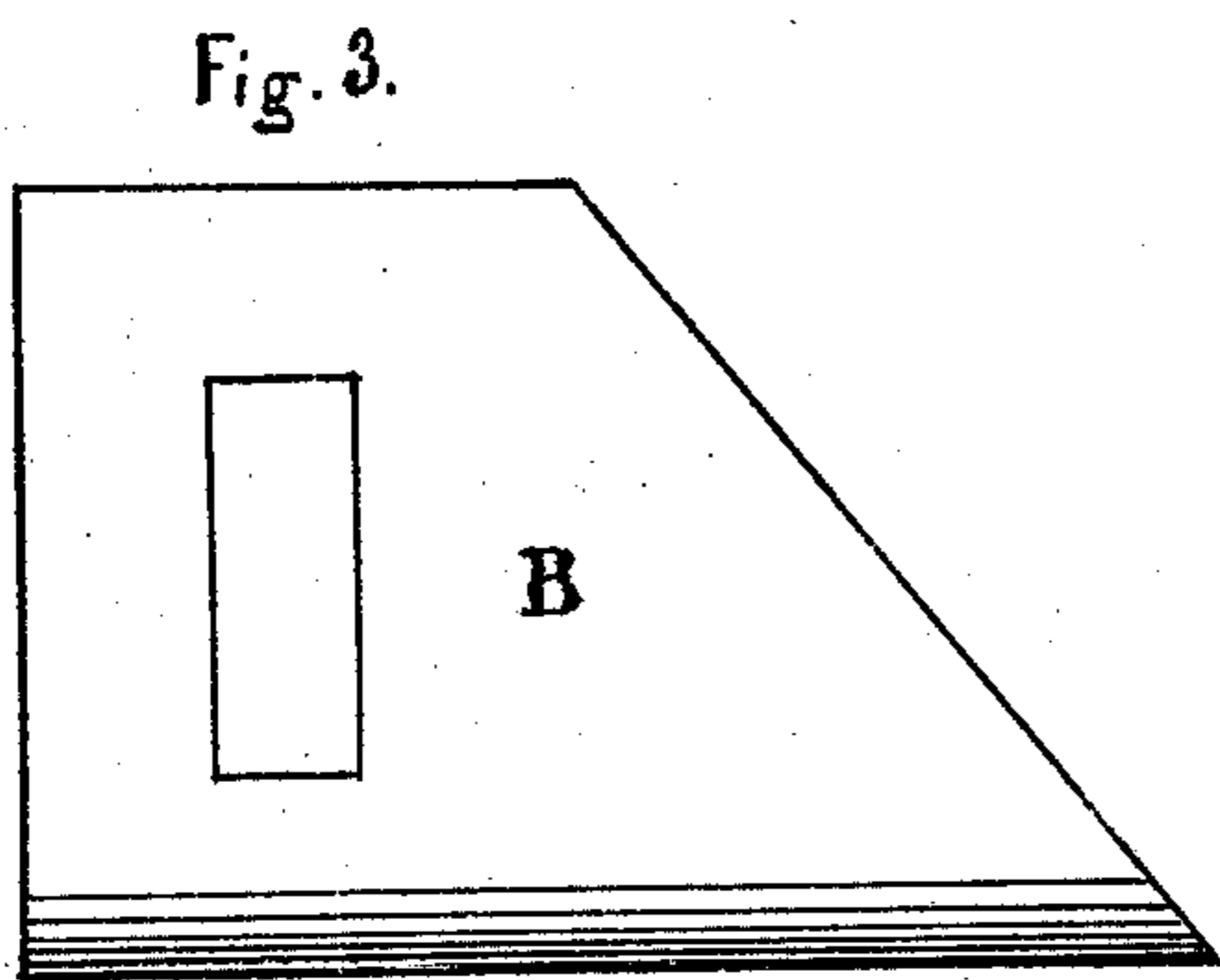
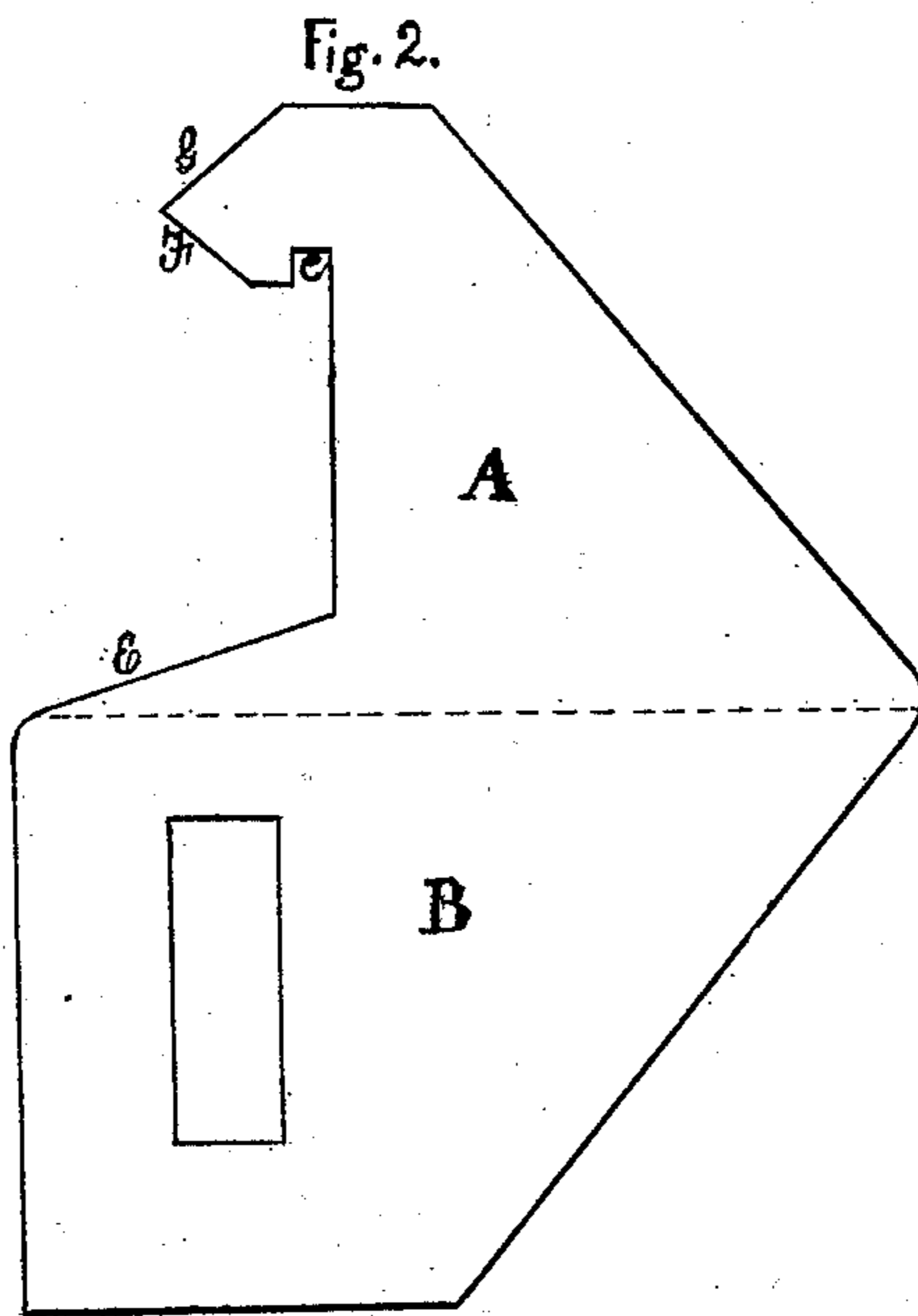
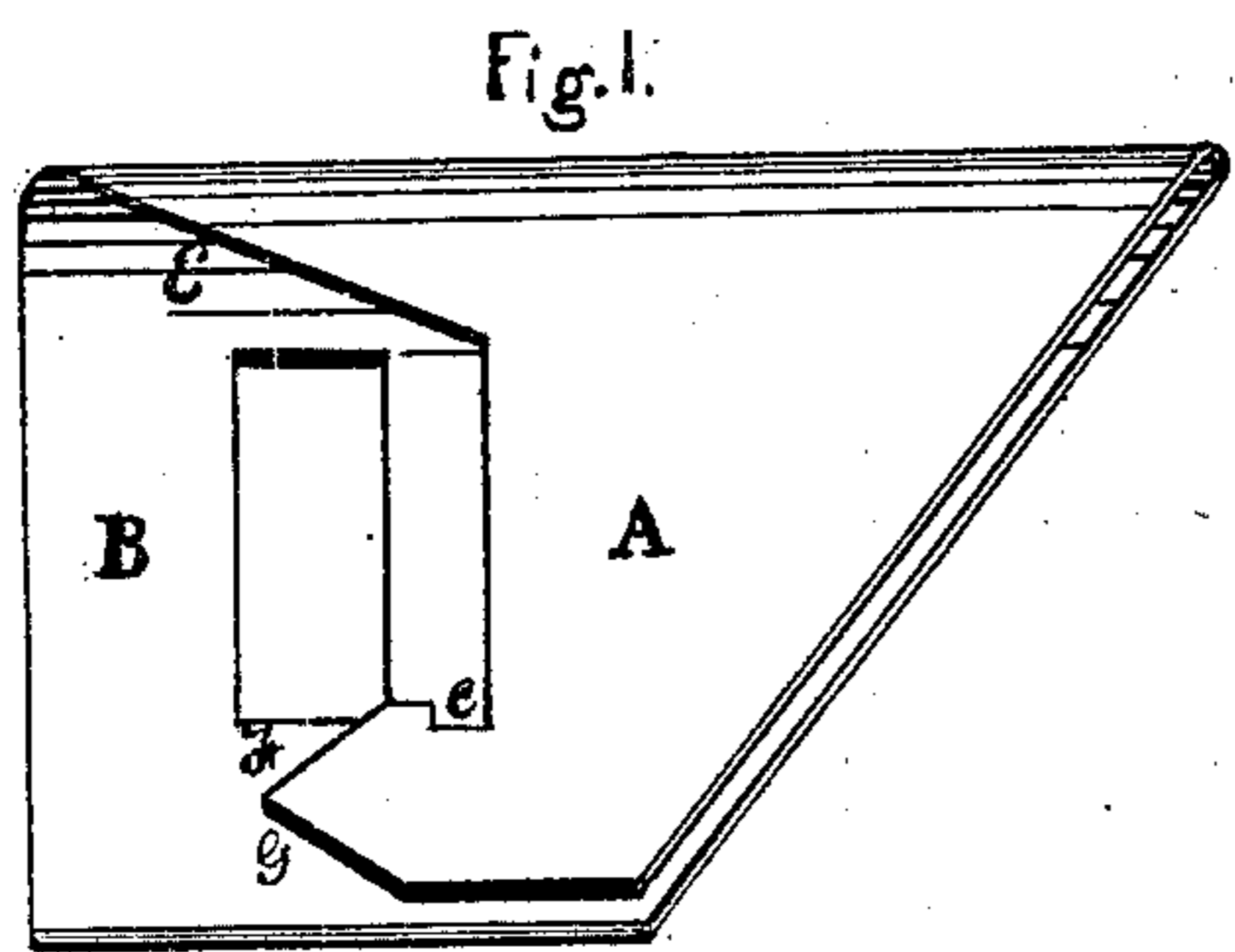


D. S. SKINNER.
Improvement in Cotton-Bale Ties.

No. 131,573.

Patented Sep. 24, 1872.



WITNESSES,

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UNITED STATES PATENT OFFICE.

DARIUS S. SKINNER, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN COTTON-BALE TIES.

Specification forming part of Letters Patent No. 131,573, dated September 24, 1872.

To all whom it may concern:

Be it known that I, DARIUS S. SKINNER, of the city and county of Providence, in the State of Rhode Island, have invented a new and Improved Hook, Buckle-Fastening, or Cotton-Tie; and I do hereby declare that the following specification, taken in connection with the drawing making a part of the same, is a full and exact description thereof, in which—

Figure 1 is a perspective view of my improvement. Fig. 2 is a blank or form of the device before bending or folding. Fig. 3 is a view showing the outer or exposed side, as generally in use; and Fig. 4 is a sectional side view of my device, showing the ends of the bands or straps as connected in use.

My invention relates to devices employed in fastening and holding straps or bands of metal or other material together, and is designed to enable such straps or bands to be securely and rapidly fastened around any packages or bales, or for the hooking or buckling together of any of the parts or ends of any suitably-shaped articles to which it may practically be applied.

In the drawing, similar letters of reference indicate corresponding parts.

Fig. 2 represents the shape of a blank for forming my improved hook or buckle fastening. In some respects the shape may be changed and still embrace the same principle, when bent or formed, as hereinafter described.

In the description, A will form the hook side, and B the buckle side, the blank being bent across its center, represented by dotted lines, bringing the side A parallel with the side B, as shown in Fig. 1, and the inner surfaces a suitable distance apart, to receive the thickness of the ends of the straps or bands, or the material to be fastened, as represented in Fig. 4. The connecting part of the plane A, on the bent line, attaching it to plane B, making a base for the bracket parts or angles E F G of plane A, so as to give great strength for the purpose required. On the plane A is arranged the peculiar bracketed forms of the hook which is intended to hold secure and resist by its great strength, from its peculiar bracketed form, the pressure or strain brought

to bear against it. The peculiar position and form of the different brackets or angular edges of this plane A also increase the facility of using, by directing the bands, or straps, or material used into position, to be permanently held. The small recess C is arranged toward the end of the horizontal edge of plane A, opposite from the bent or folded edge or base of the brackets, for the purpose of preventing the band or straps, &c., from springing out of or aside from the position which the incline edge E has conducted the band, strap, or material into. The arrangement of and the bracketed form of the hook or tie admits of its being increased to any required width, relatively retaining the same proportional strength as its width increases. I use the trapezoid form generally for my plane B and the lower part of plane A, but they may be made in the form of a square, parallelogram, or otherwise, as desirable and practicable. B, Fig. 3, is the outer or exposed side, generally, when in use, though, by its peculiar structure, either of the two planes or sides A and B may be used for that purpose. Near one end of plane B a hole is pierced in such form as may be practically required for attaching it to the end or the edge of a strap, band, or material used, while the remainder of plane B acts as a shield and assists in holding the opposite end or edge of the material or strap firmly in its place.

I am aware that hooks and buckles for fastening the ends or edges of bands, straps, and other articles together are not new, and I therefore have no desire to claim them specially as my invention.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

The double planes A B, and the form in which they are bent or folded together, to form parallel planes, as arranged in reference to each other, and the bracketed or angular forms or edges E F G of the plane A, and recess C, substantially as herein described, and for the purpose specified.

DARIUS S. SKINNER.

Witnesses:

EDWIN C. PIERCE,
EUGENE H. LINCOLN.