

W. D. FIELD.  
Cotton-Bale Tie.

No. 223,723.

Patented Jan. 20, 1880.

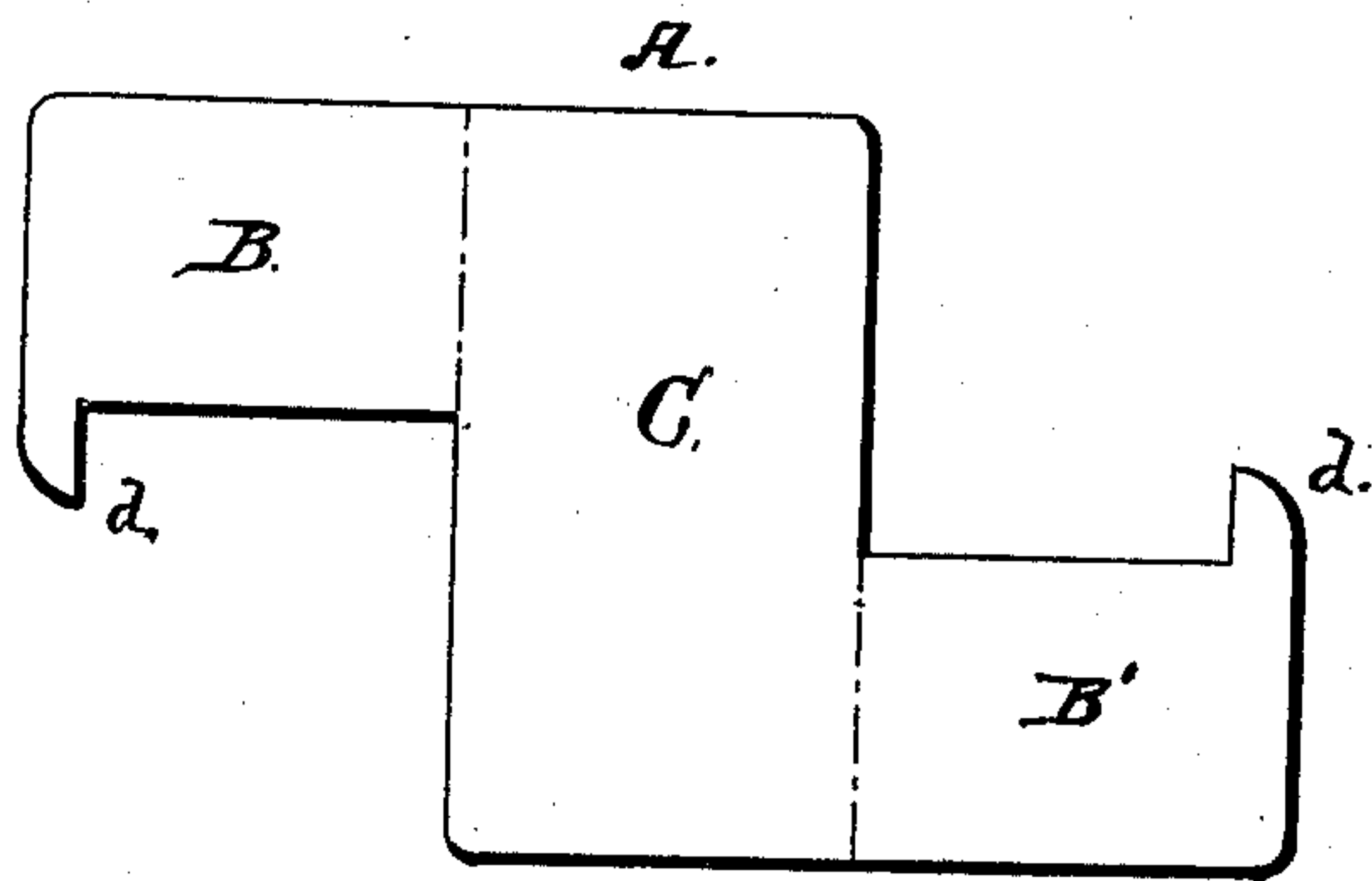
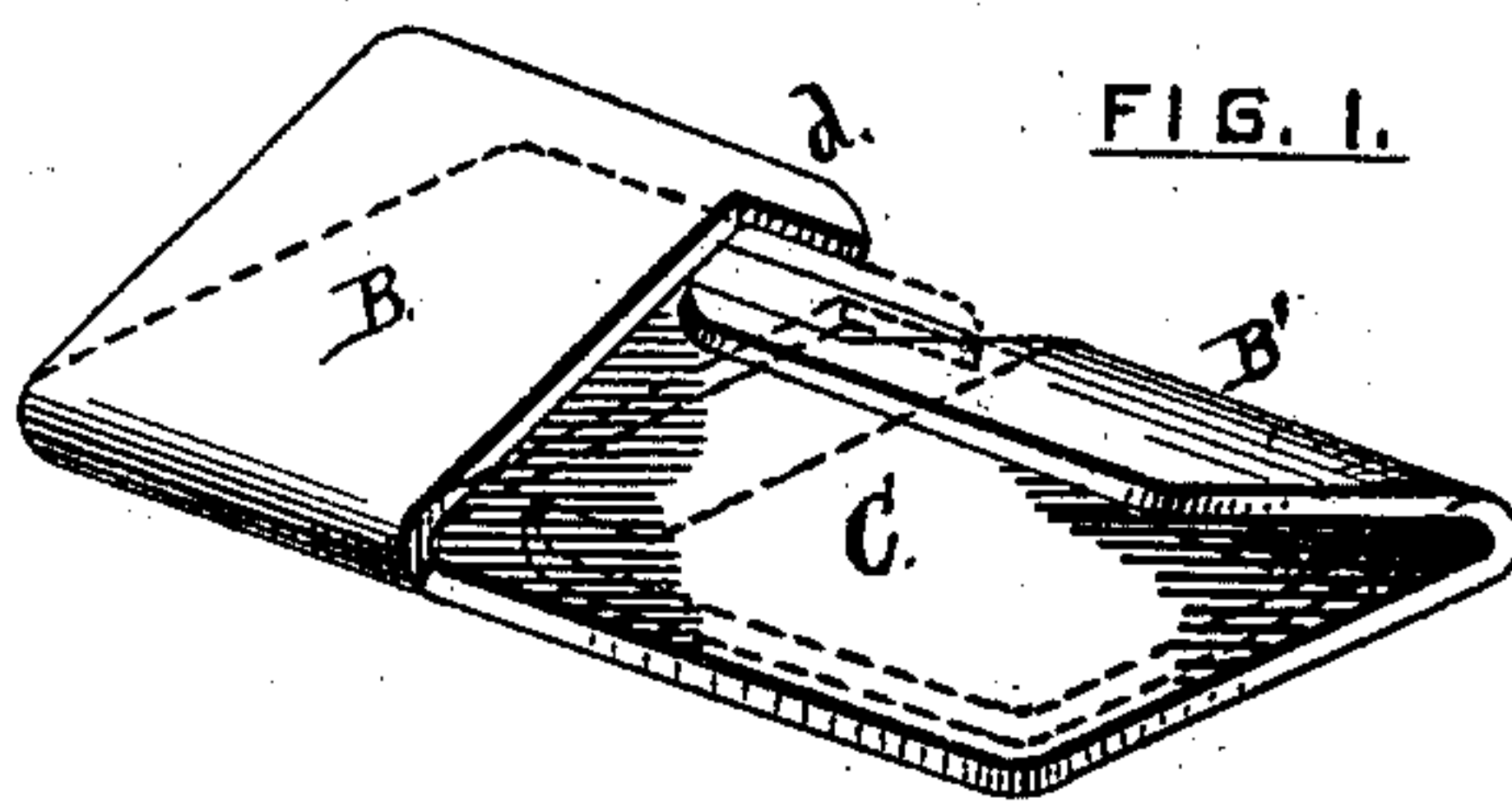


FIG. 2.

WITNESSES.

G. M. Carpenter  
Edward S. Jones

INVENTOR.

William D. Field  
By his Atty. Albert H. Lincoln

# UNITED STATES PATENT OFFICE.

WILLIAM D. FIELD, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO FRANCIS W. CARPENTER, OF SAME PLACE.

## COTTON-BALE TIE.

SPECIFICATION forming part of Letters Patent No. 223,723, dated January 20, 1880.

Application filed December 27, 1879.

*To all whom it may concern :*

Be it known that I, WILLIAM D. FIELD, of Providence, in the State of Rhode Island, have made a new and Improved Cotton-Bale Tie; and I do hereby declare that the following specification, taken in connection with the drawings making a part of the same, is a full, clear, and exact description thereof.

Figure 2 shows the plate as it comes from the die. Fig. 1 shows the plate with its arms bent over.

The object of my invention is to produce a cotton-tie which can be more cheaply manufactured, more durable, and more easily adjusted than those now in use; and it consists in the device hereinafter described.

The ties now in common use have an open slot upon one side, into which the looped ends of the strap are slipped, the one before and the other after the bale is compressed. One side being open, the other is compelled to sustain the entire strain, which is oftentimes sufficient to break the tie.

In my invention, A, Fig. 2, is the plate as it comes from the die, the arms B B' of which are subsequently bent over upon the center or body C, as shown in Fig. 1, the position of the arms after the bending has been completed being parallel with the surface of the center or body C, as shown by the dotted lines.

The operation necessary to adjust my im-

proved tie is as follows: The strap is looped at one end and the loop slipped over the arm B, the loose end of the former being upon the inside, as usual. The bale is now compressed, and the remaining end of the strap brought up and looped in the same manner and slipped over the arm B'.

The spaces between the arms B and B' and the center or body C are sufficient to admit the loops, while the projecting points *d d* prevent the strap from afterward slipping off.

It will now be readily seen that the tie, being made entirely from a single piece of metal, can be produced at a slight cost, that it is easy of adjustment, and that, the strain being from the center, it will not be liable to break.

The arms B and B' need not both be turned over upon the same side of the center or body C, but may be turned over upon opposite sides of the same.

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

A cotton-tie made in a single piece of metal, and having two arms, B and B', each provided with a projection, *d*, the said arms being bent over the center or body C, the whole constructed substantially as described.

WILLIAM D. FIELD.

Witnesses:

WALTER B. VINCENT,  
G. M. CARPENTER, Jr.