

F. COOK.
Cotton-Bale Ties.

No. 139,777.

Patented June 10, 1873.

FIG 1.

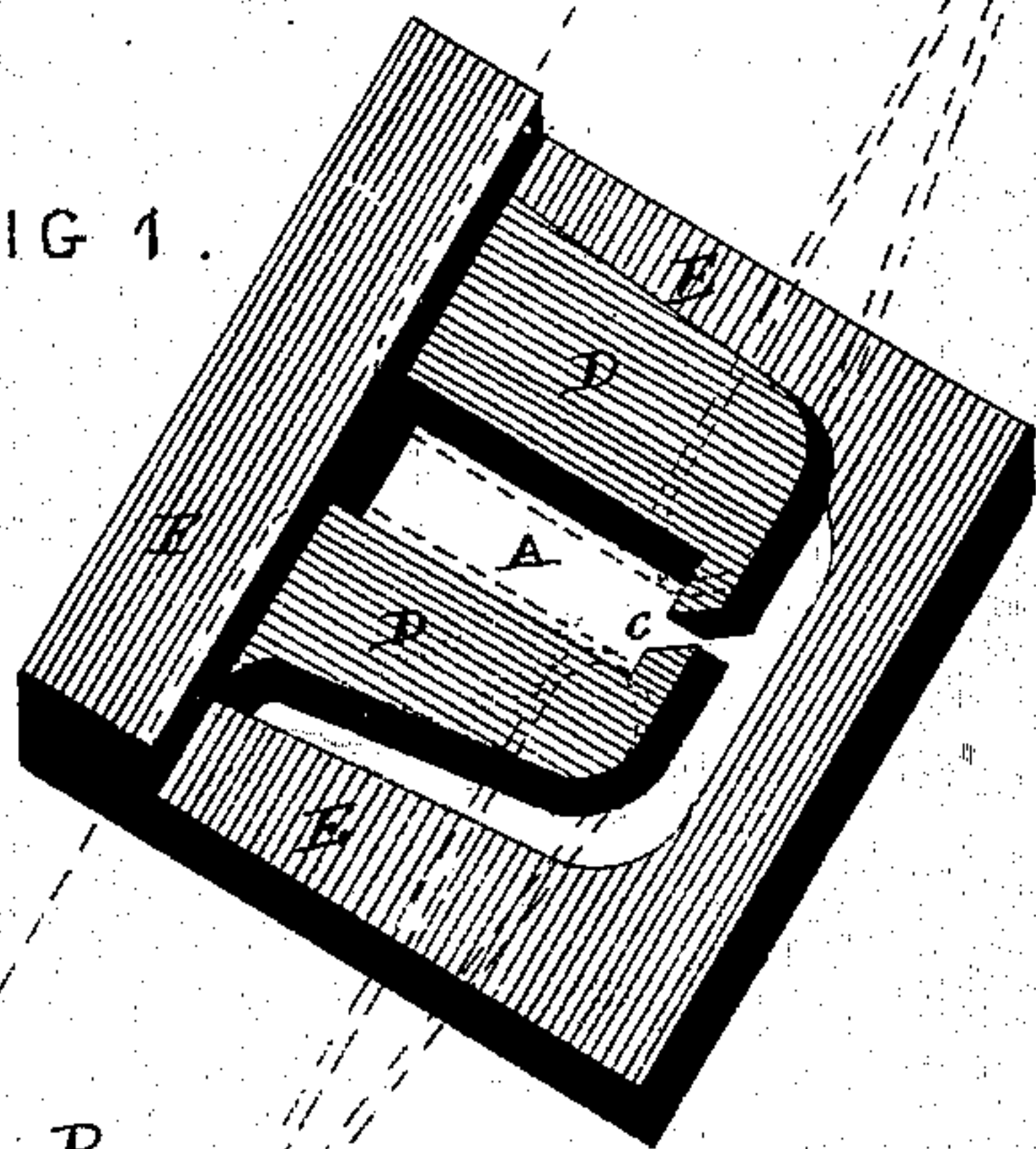
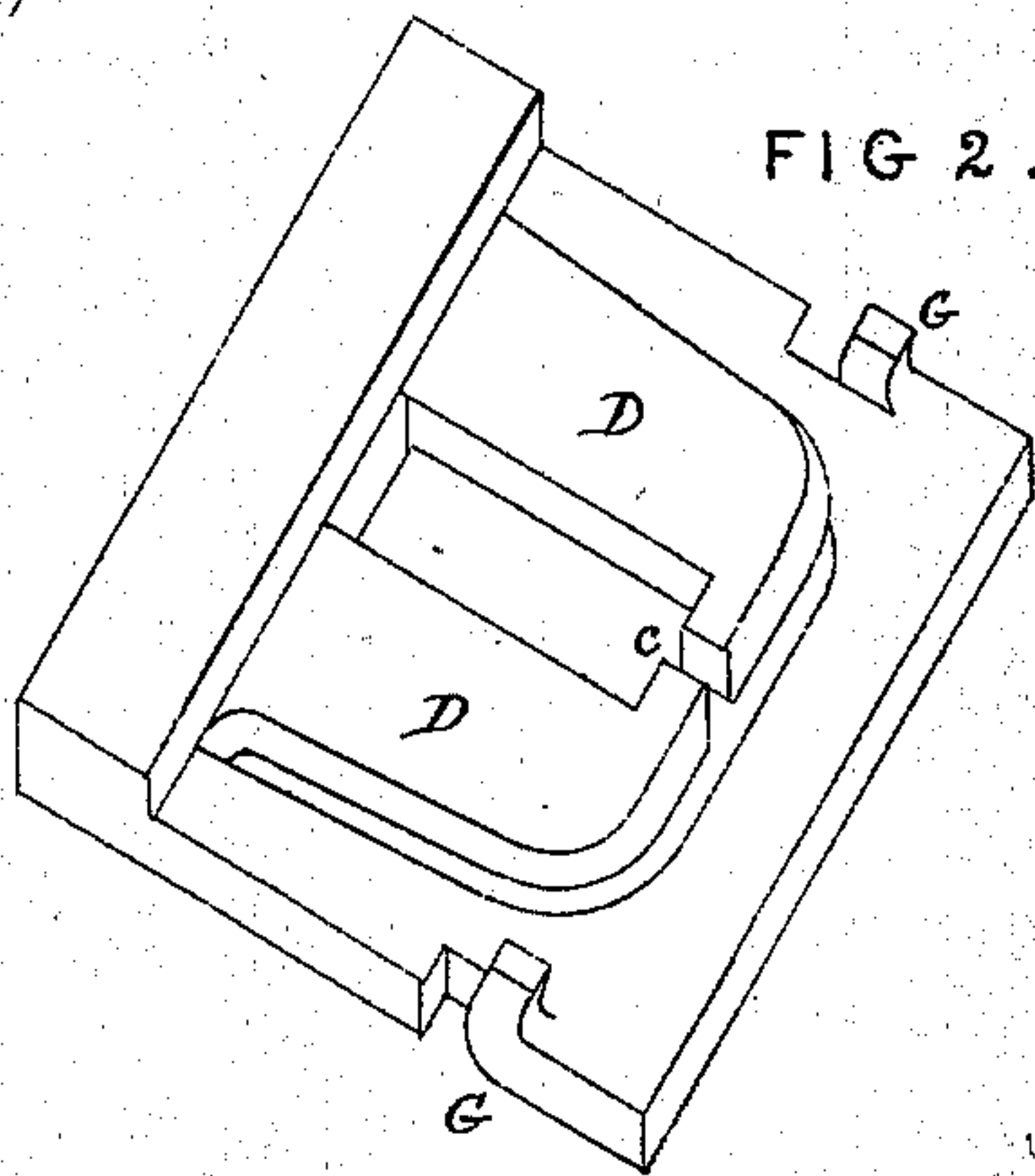


FIG 2.



Witnesses
H. J. Parkinson
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UNITED STATES PATENT OFFICE.

FREDERIC COOK, OF NEW ORLEANS, LOUISIANA.

IMPROVEMENT IN COTTON-BALE TIES.

Specification forming part of Letters Patent No. **139,777**, dated June 10, 1873; application filed November 5, 1872.

To all whom it may concern:

Be it known that I, FREDERIC COOK, of New Orleans, parish of Orleans and State of Louisiana, have invented certain Improvements in Bale-Ties, of which the following is a specification:

The nature of my invention is to provide a single-mortise open-slotted bale-tie that will not depend upon the expansion of the bale for holding the ends of the bands fast after the tying, the buckle having but one mortise encircled by an outer rim, and no iron being cut out of the buckle except to form the one mortise and open slot, the portions of the buckle which receive the strain of the bands being split and pressed away from the balance of the buckle without loss of metal, thus keeping the size of the buckle within a small compass; also, to provide a simple and easily-adjusted side-slot bale-tie that combines strength and quickness of adjustment with provisions to prevent the band-loops from coming out of the central mortise A after the tying is effected.

Reference is made to the accompanying drawings, in which Figure 1 is a perspective view of bale-tie. It is intended to be made of rolled strip-iron or other suitable material, and may be formed in dies. A is a single mortise to receive the two looped ends of the bands B B, which are passed into the mortise A through the open slot C, and the looped ends of the bands strain on the fingers D D. There is no metal taken out except the mortise A and the open slot C. The fingers D D are split off and pressed out from the body of the buckle and raised from its surface enough to let the looped ends of the bands pass over them into the mortise A. The ends of the bands are turned under toward the bale, and, when the strain comes on the bands, the outside rim E E of the buckle or tie-plate prevents their being withdrawn. F is a raised bead to give additional strength to the side where the fingers D are attached.

The open slot C is made at an angle so as to offer an opening just enough to admit one thickness of band-iron when the band is passed in square with the mortise, and, at the same time, the width of the slot may be sufficient to be easily punched out—that is, to have sufficient width to the punch to give it strength, for experience has proved it difficult to get a punch to stand where the width of the slot is

very narrow. By the open slot being made and used thus it is easily manufactured, and at same time the band may be squarely inserted, and there is but little chance of it afterward coming out.

Fig. 2 represents the same bale-tie, with this difference, that the open slot is made square with the mortise, and, as a preventive of the band-ends coming out of the mortise, the stops or lips G G are turned up, against which the edges of the band-ends will strike after the looped ends of the bands are in the mortise, and will effectually prevent the band coming out of the mortise through the open slot C, after they are once in, unless removed intentionally by hand. In this the buckle has to be tipped slightly to get the looped ends of the band into the mortise A until they pass the stops G, and, when the buckle returns to its natural position, the stops G prevent the bands coming out.

I do not claim as new the open slot cut through one bar of clasp, the same being already embraced in the patent granted me March 2, 1858; nor the raised bead F, which has been long in use in cotton-ties, and is not the subject of any patent to my knowledge.

I am also aware that buckles have been made having a bar between the bent end of the band and the bale, but having several mortises cut out, which made them large and unsightly; but no buckle, to my knowledge, has ever before been made and constructed like the one I now apply for a patent for, having but one single central mortise, in combination with an open slot, and the outer rim split off from the central buckle, the ends of the band passing between the outer rim and the central fingers D.

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

1. The buckle having a single mortise and open slot, when surrounded by an outer rim, E, for the purpose specified, forming therewith a new and improved buckle.

2. The buckle having, in combination, the fingers D D split off and pressed out from its body, with the single central mortise A, the open slot C, the stops or lips G, and the outer rim-plate E with the looped ends of metallic bands, substantially as described.

Witnesses: FREDERIC COOK.

F. B. PARKINSON,
D. G. WIRE.