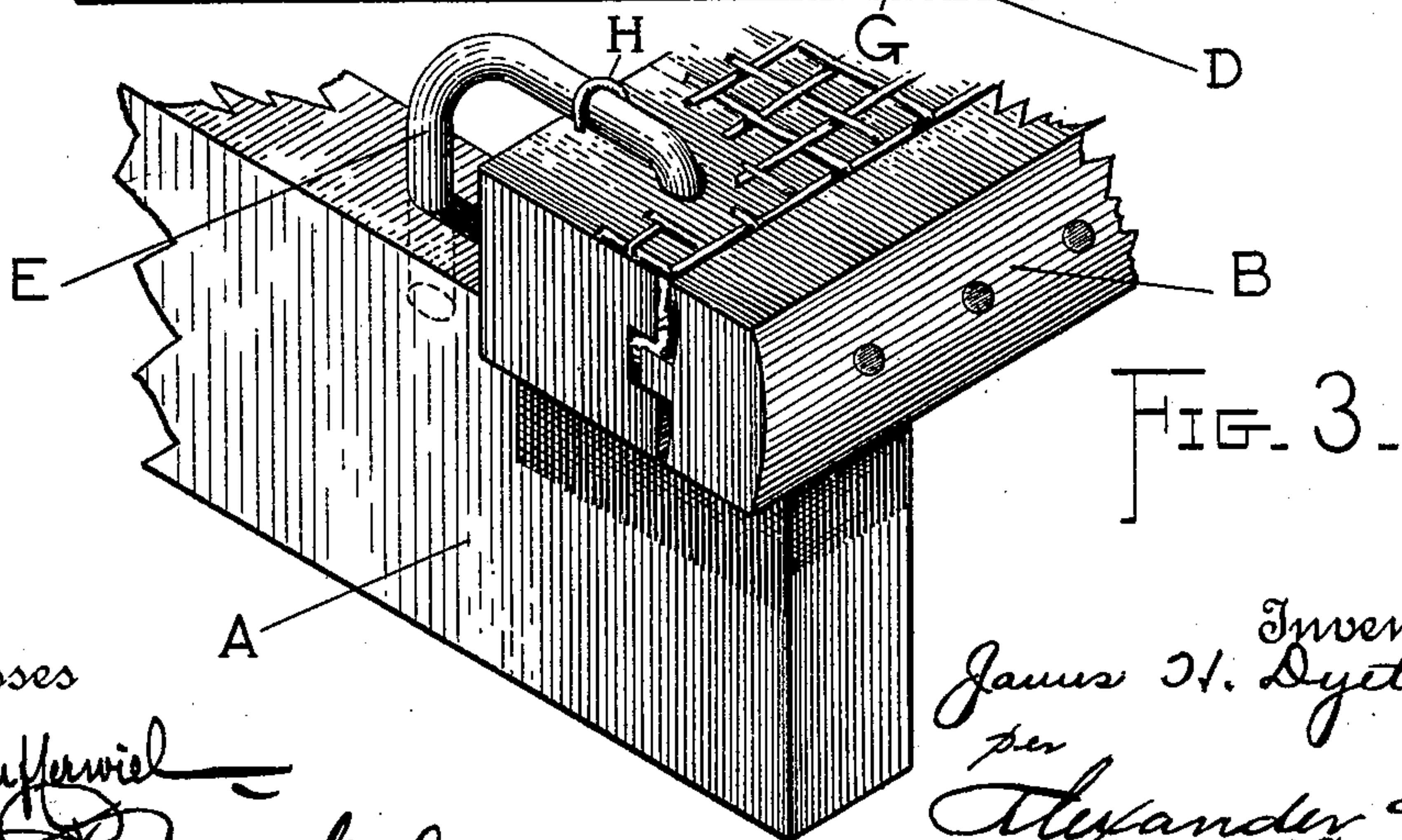
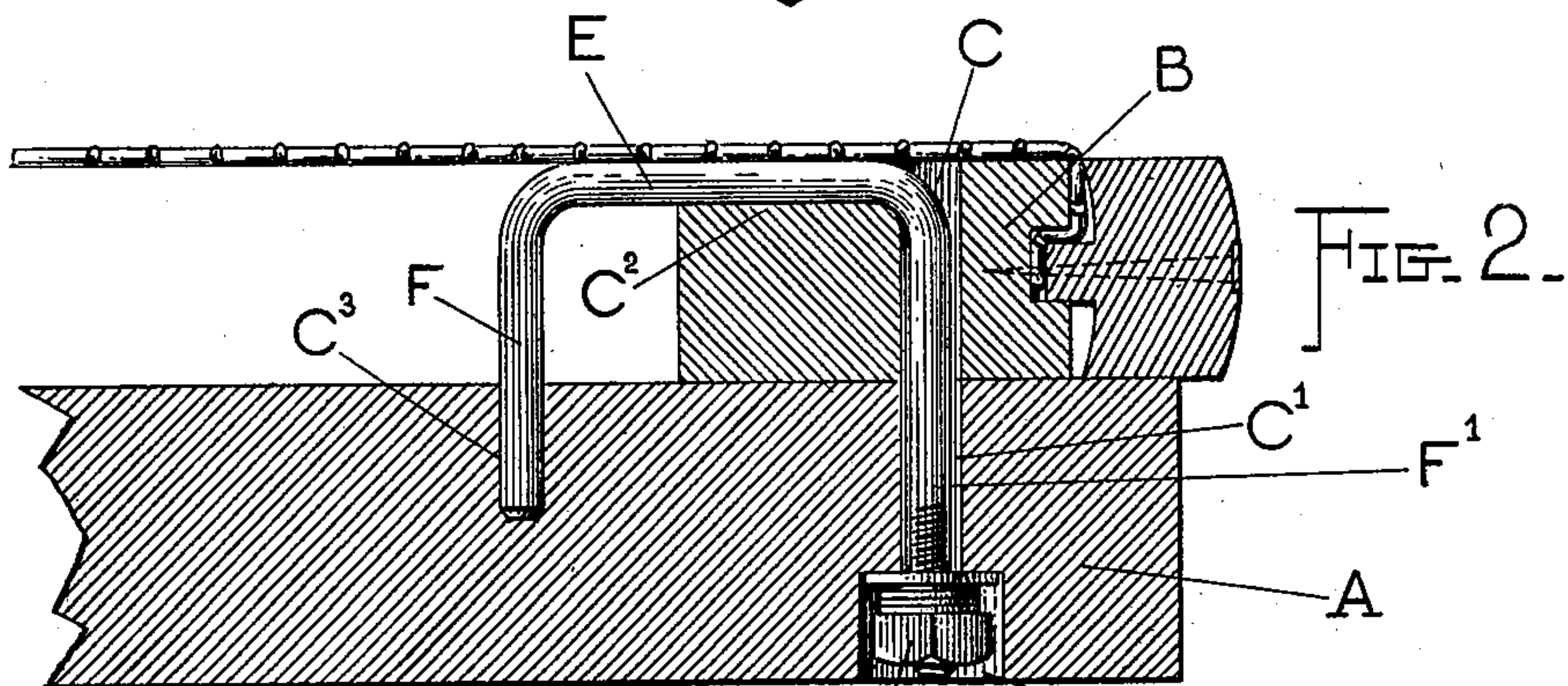
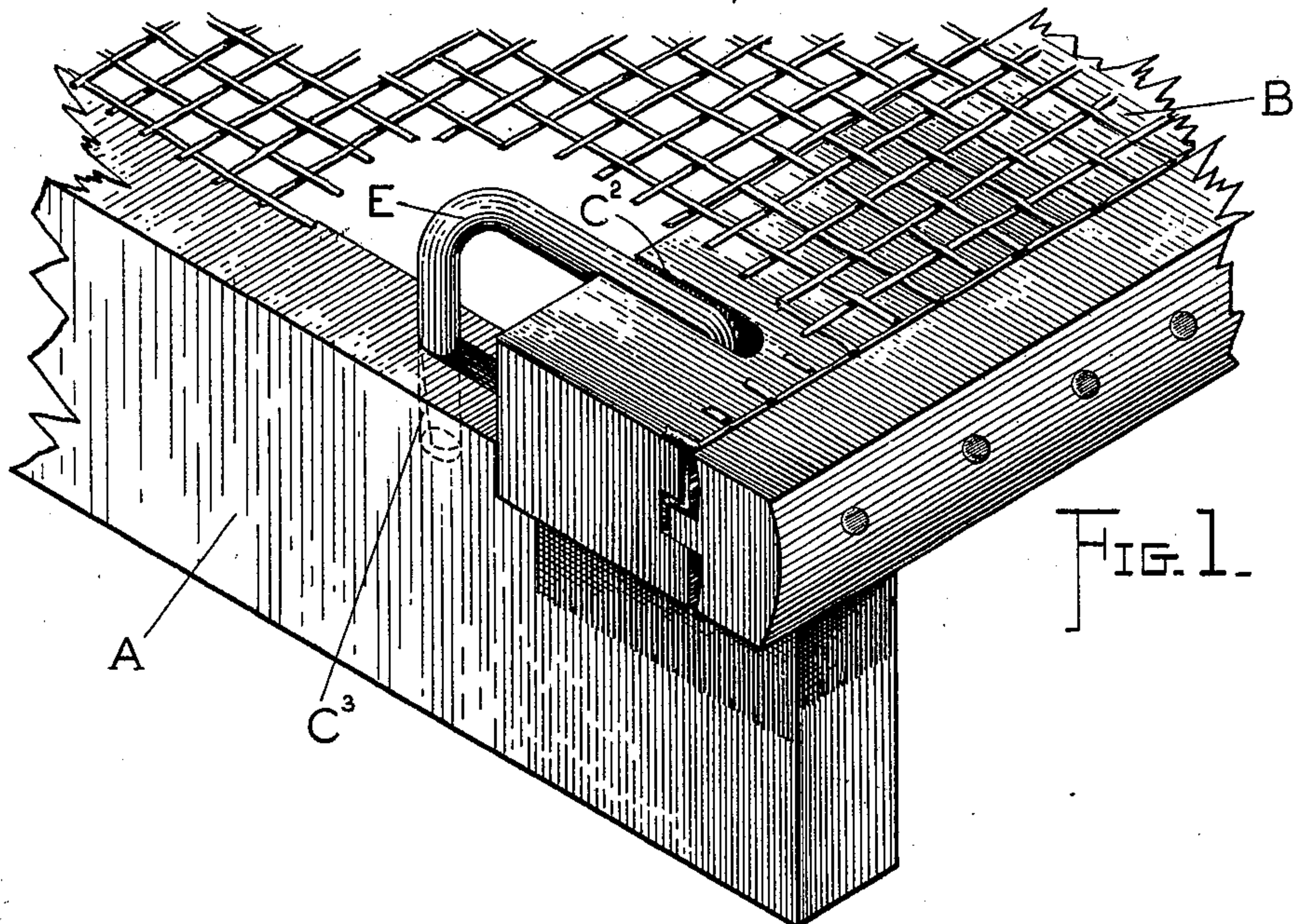


J. H. DYETT.
CORNER BRACE.

No. 594,836.

Patented Nov. 30, 1897.



Witnesses

John F. Deufferwiel
James R. Mansfield

Inventor
James H. Dyett.
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Alexander and
Bowell Attorneys.

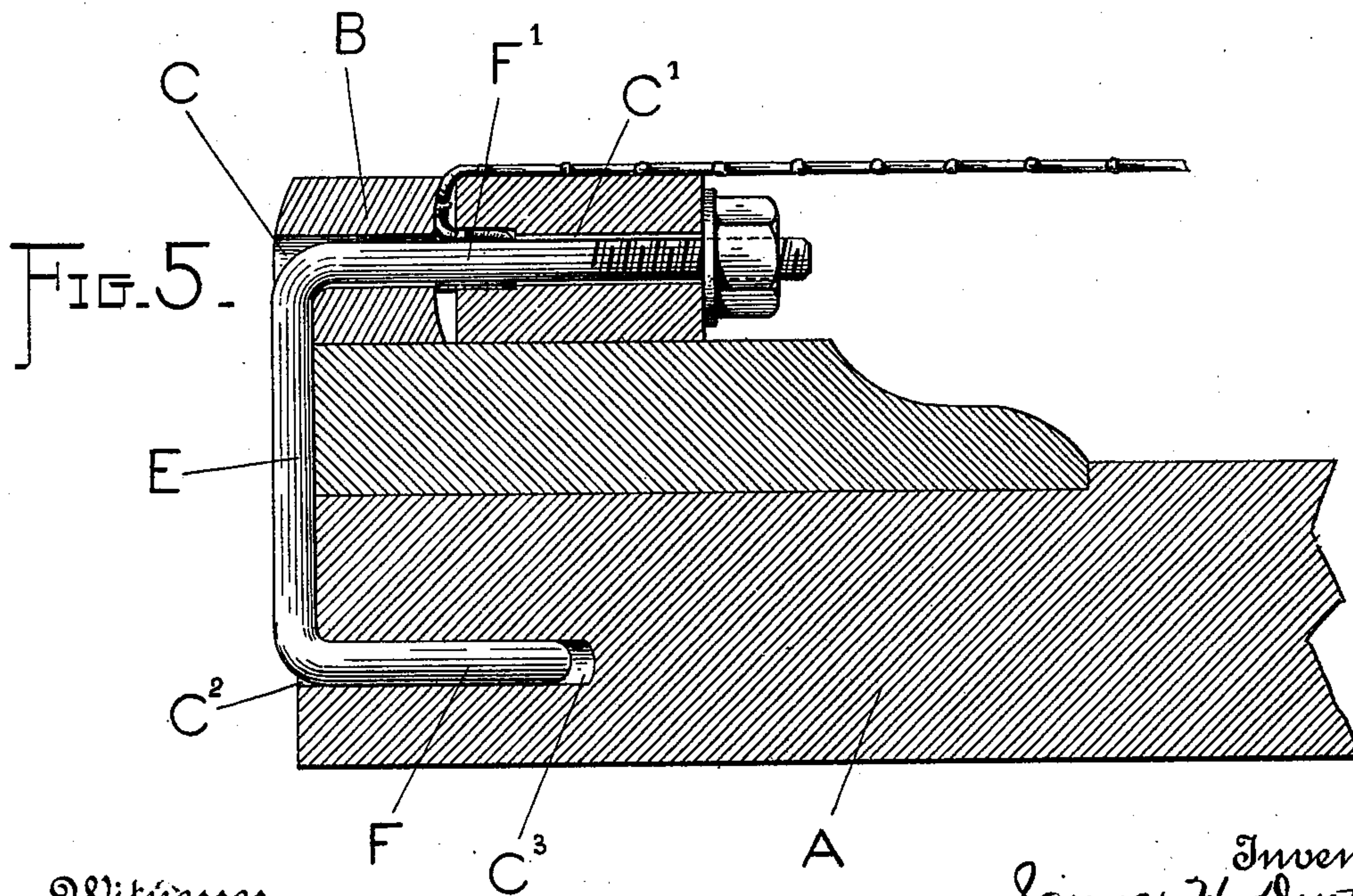
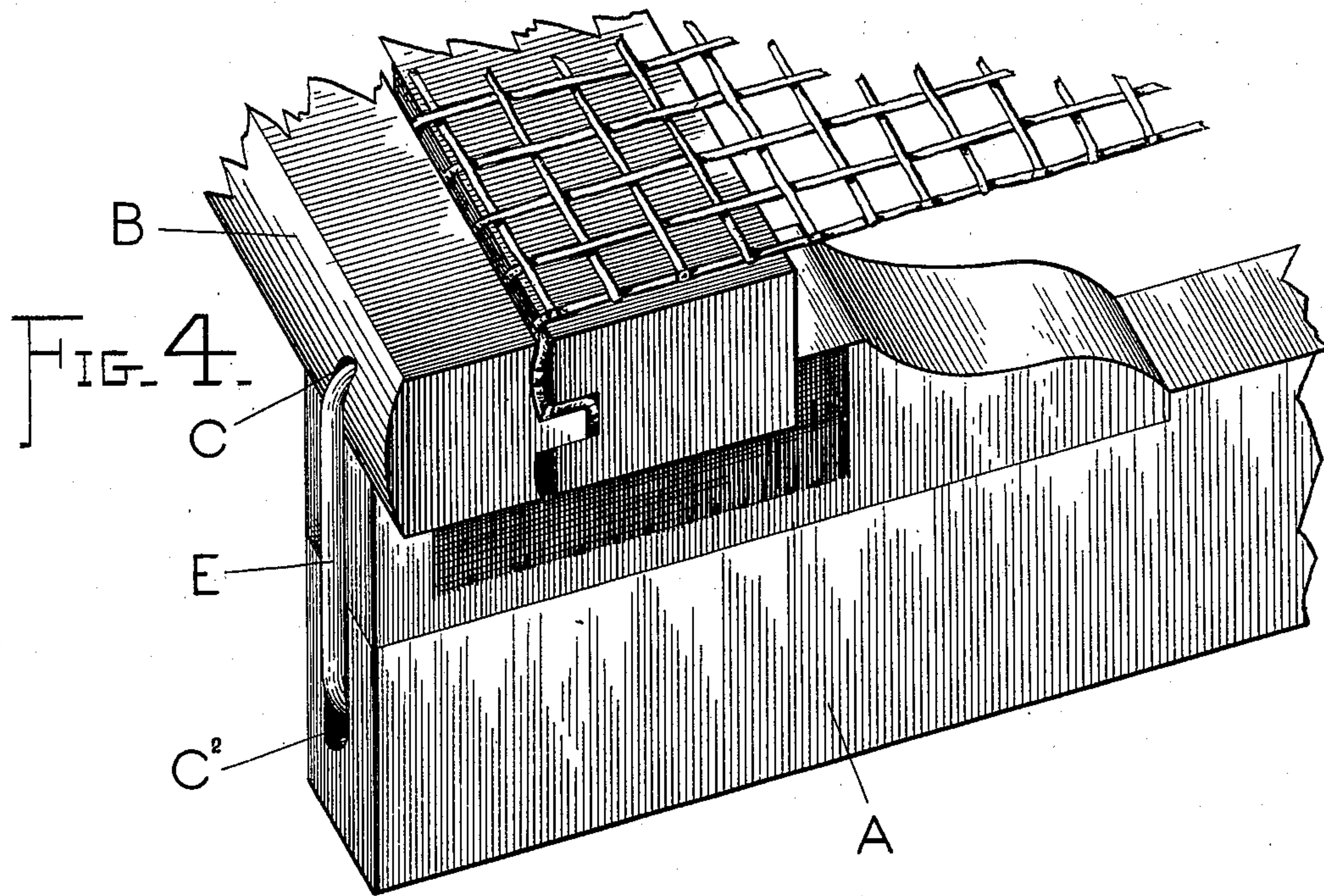
(No Model.)

2 Sheets—Sheet 2.

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UNITED STATES PATENT OFFICE.

JAMES HATHEWAY DYETT, OF BUFFALO, NEW YORK.

CORNER-BRACE.

SPECIFICATION forming part of Letters Patent No. 594,836, dated November 30, 1897.

Application filed February 16, 1897. Serial No. 623,736. (No model.)

To all whom it may concern:

Be it known that I, JAMES HATHEWAY DYETT, of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Corner-Braces; and I hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form part of this specification.

10 This invention is an improvement in corner-braces for woven-wire mattresses, but may be applied to other styles of frames with equally as good results.

15 The invention consists in the novel construction and combination of parts hereinafter described, and pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective view of a portion of a bed-frame with my improved corner-brace applied. Fig. 2 is a sectional view showing the manner of uniting the end and side rails. Fig. 3 is a perspective view of a modified form of brace. Fig. 4 is a perspective view of another modification of my invention. Fig. 5 is a sectional view showing the manner of uniting the side and end rails.

Referring to the drawings by letters, A represents one of the side rails, and B one of the end bars, of an ordinary frame for woven-wire mattresses. As shown, the end bar is bored out, as at C, a suitable distance from the end for the purpose of registering with a similar opening C' near the outer end of the side rail A. At the upper end and at right angles to the opening C is a groove C² for the purpose hereinafter explained. At a suitable distance from C' another hole C³ is bored in the top of the side for the purpose of retaining one arm of a bolt E, which unites both the end and side rails.

40 The bolt E is U-shaped, having arms F F', arm F being preferably shorter than arm F' and extending into the upper side of rail A, as shown at C³, thereby giving the proper purchase to and holding the corners squarely by the means employed. The bolt is applied to the side and end rails in the following manner: The end bar and rail having been properly adjusted, so that the openings C C' register, the arm F' of the U-shaped bolt E is passed through the openings C C'. The

shorter arm F enters hole C³ and the horizontal part of the bolt lies in the groove C², flush with the upper surface of end bar B. A retaining-nut G is then applied to the arm F' of the bolt to securely fasten the parts together, as is evident.

It is well known in the art that all woven-wire mattresses must be braced at the opposite corners at one end, at least, in order that the mattress may retain its correct shape and perfectly fit on the bed. Where the frames are not so braced, the handling and blows received, especially in transportation, will cause two of the corners to become obtuse and the other two acute, instead of all four corners remaining at right angles. I am aware that there are various means designed for this purpose, but they fail in attaining the desired results. The means I employ practically overcome the defects and disadvantages of those now in use and make my corner-brace absolutely certain in its action, as no amount of jar or blows will displace it or allow the corners to get out of position, except by the absolute bending or twisting of the very heavy U-shaped bolts or the breaking of the wood.

As shown in Fig. 3, instead of grooving the end rail B to receive the horizontal portion of bolt E the horizontal part of the bolt may be fastened by a staple G, which is driven into the end rail over the horizontal portion of the bolt, or any other suitable means may be employed for fastening the horizontal part of the bolt to prevent the end rail turning in relation thereto. As I have shown in Figs. 4 and 5, the same U-shaped bolt E may, as will be obvious, be turned quarter around in order that the arms F and F' thereof will be parallel to the side rails A instead of perpendicular thereto, in which case one arm (preferably the shorter) is driven into the end of the side rail, as shown at C³, and the other arm F' extends through the horizontal opening C' in the end bar. It will be observed that the half hole or groove C² in this modification will be in the end of the side rail instead of in the end bar, as previously stated. As shown, the groove C² in the end of side rail A is preferably extended along the whole distance of the part E of bolt—that is, the end bar B is cut away, as at C, a sufficient distance to admit

of the end bar and side rails becoming flush at their outer ends. This, however, is not necessary and may be entirely omitted.

I do not confine myself to the groove C² as above described, but instead a staple or its equivalent might be employed, it only being necessary, as is evident, that the U-shaped bolt E is held rigid and any point of arm F' or F' be placed in position. Then a point on the other arm cannot move in an arc about E as a center without twisting the bolt. Therefore the means employed to hold bolt E rigidly which I have preferably chosen is the half hole or groove C², and the same effect is produced whether bolt E rests in the groove C² in a horizontal position in the end bar or in a similar groove held perpendicular in the end of the side rail.

It will be seen that the device is very simple and durable in construction, is easily put together, and can be very cheaply manufactured, and it does not make the frames take up any more space in packing and shipping.

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

1. In a corner-brace and fastening for the side rails and end bars of mattress-frames, &c., the combination of the rail and bar with

a U-shaped brace-bolt, one arm of which transfixes both the rail and bar and is threaded on its lower end for the application of a binding-nut, the horizontal portion of said bolt overlying the end bar and extending inward parallel with the side rail and locked to the end bar, and the other arm of said brace engaging a hole in the side rail, substantially as and for the purpose described.

2. In a corner-brace for bed-frames the combination of the side rail and end bar, with a U-shaped brace-bolt having a short arm engaged in a hole in the side rail, its other arm transfixing both the rail and bar; and its horizontal part overlying the top of the end bar and resting in a transverse groove in the top thereof, whereby lateral twist or turning of the rail and bar in relation to each other is prevented; and a fastening device on the lower end of the longer arm, all substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JAMES HATHEWAY DYETT.

In presence of—

W. H. FLEISHMAN,
T. E. BAILEY.