

G. R. SMITH.
Bale-Tie.

No. 224,800.

Patented Feb. 24, 1880.

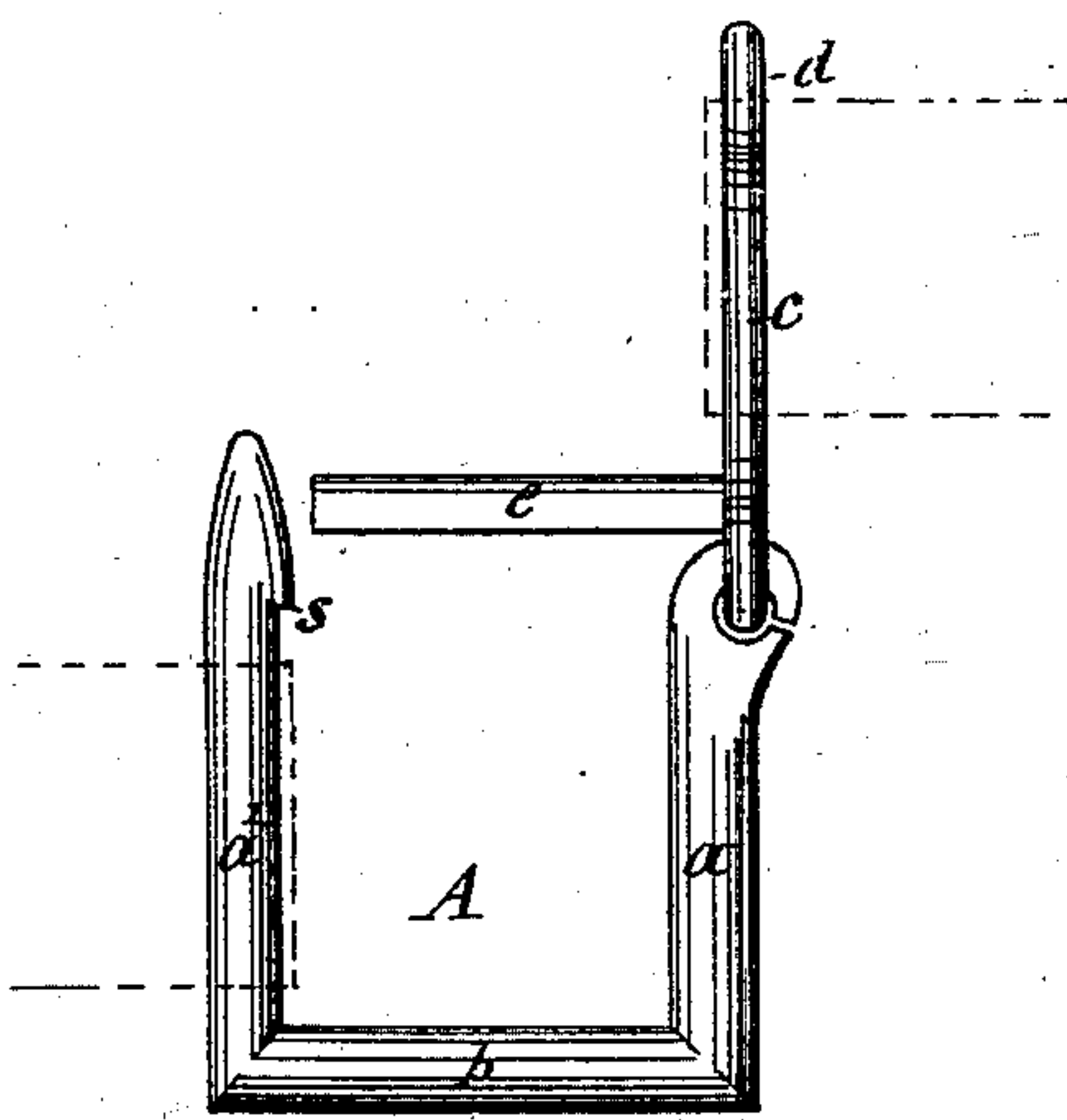


FIG. 1

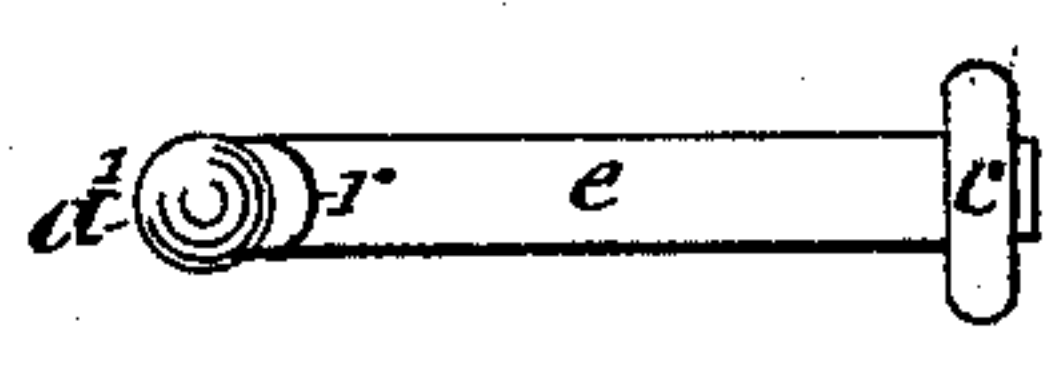


FIG. 5

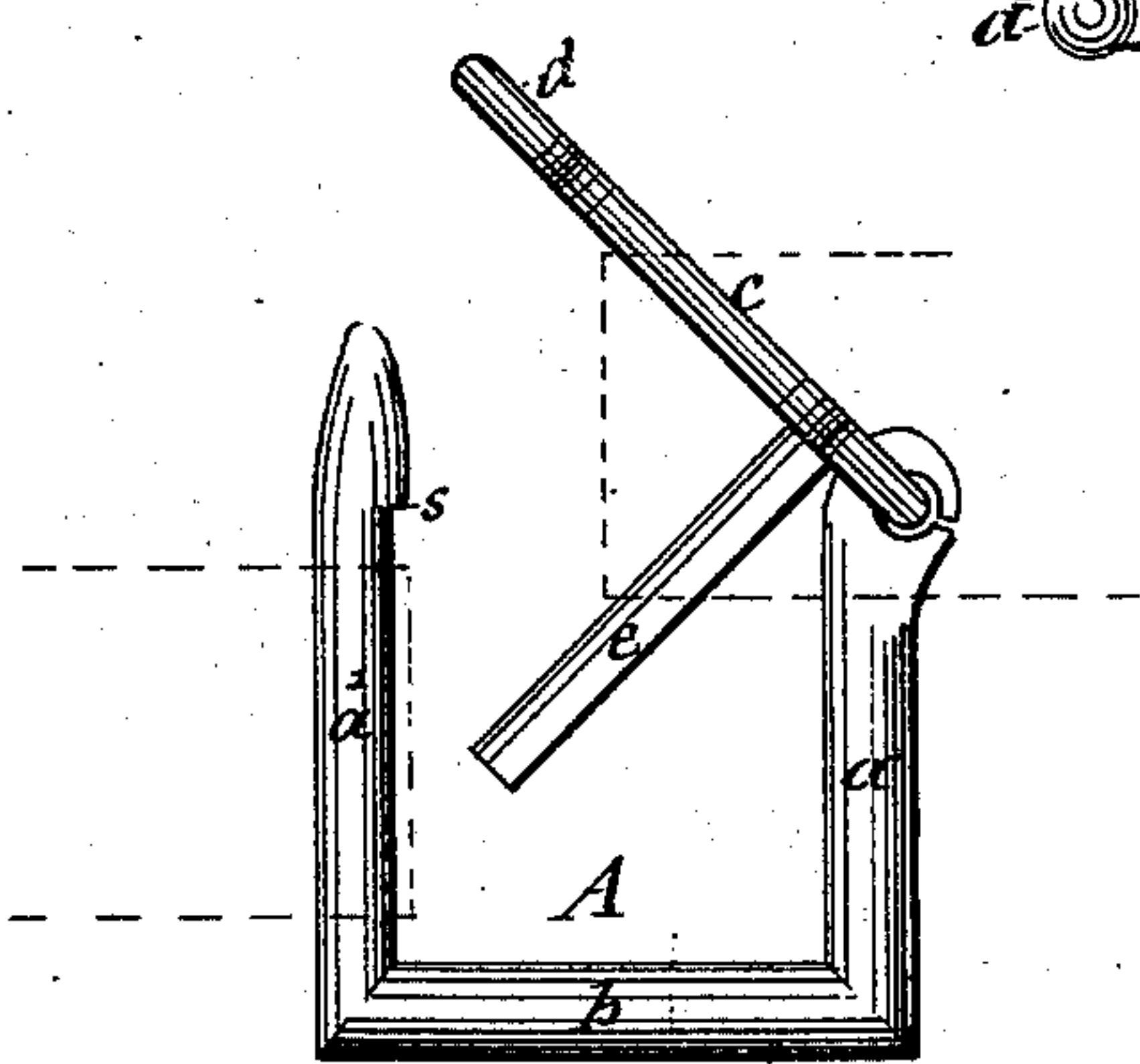


FIG. 2

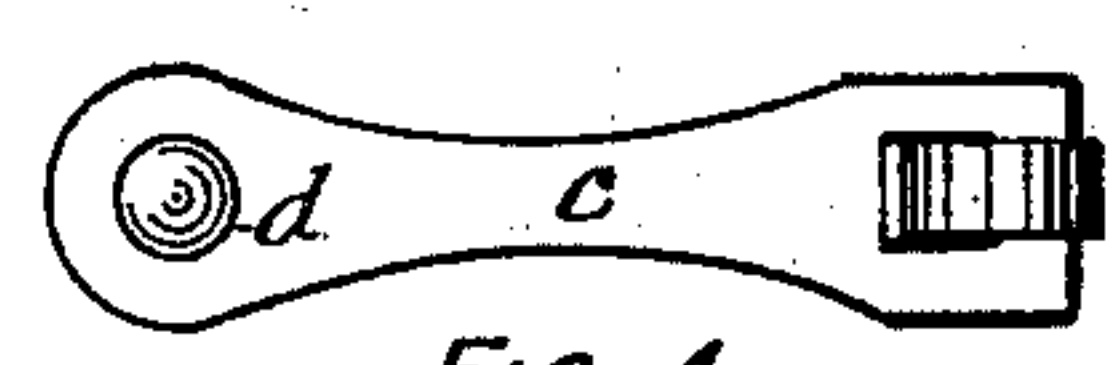


FIG. 4

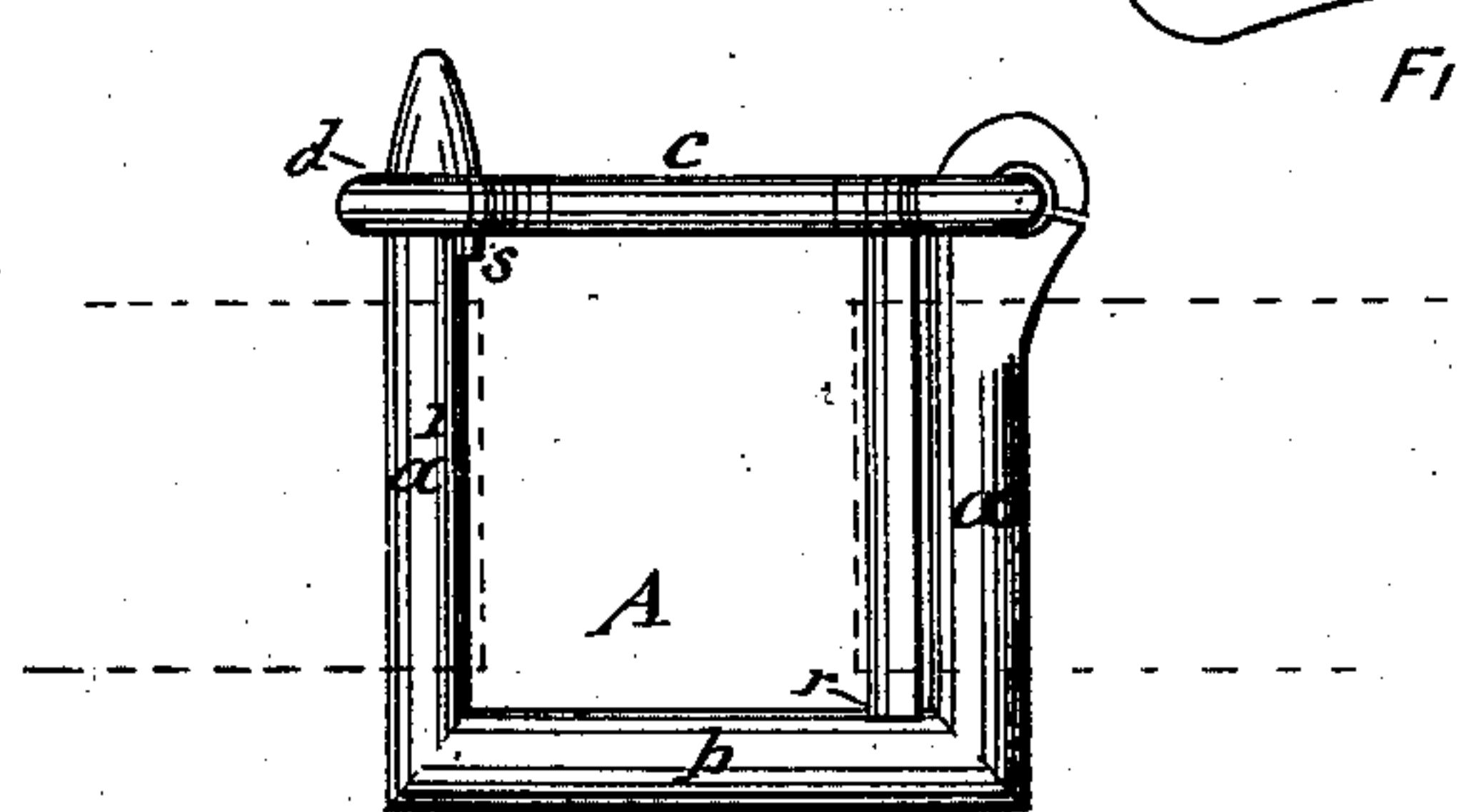


FIG. 3

ATTEST:

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UNITED STATES PATENT OFFICE.

GEORGE R. SMITH, OF GEDDES, NEW YORK.

BALE-TIE.

SPECIFICATION forming part of Letters Patent No. 224,800, dated February 24, 1880.

Application filed August 14, 1879.

To all whom it may concern:

Be it known that I, GEORGE R. SMITH, of Geddes, in the county of Onondaga, in the State of New York, have invented new and useful
5 Improvements in Bale-Ties, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

The nature of this invention consists of a
10 rigid frame composed of two parallel arms extended at right angles from a single bar, and a bar hinged to the free end of one of said arms and having an eye engaging the free
15 hinged end with a right-angled arm adjacent to the inner face of the arm of the frame, all as hereinafter more fully described.

The invention is clearly illustrated in the accompanying drawings, wherein Figure 1
20 shows the bale-tie in position for receiving the free end of the hoop or band. Fig. 2 illustrates the mode of carrying the said end of the hoop into the tie. Fig. 3 is a view of the tie in position for confining both ends of the
25 band; Fig. 4, a side view of the receiving end of the tie when closed, and Fig. 5 the same when open.

Similar letters of reference indicate corresponding parts.

30 A represents the main frame of the tie, consisting of the two rigid parallel arms $a a'$, united at one end by the bar b . To the free end of the arm a is hinged the bar c , having at its opposite extremity an eye, d , adapted to
35 receive the free end of the arm a' , which is tapered for that purpose.

To the inner side of the bar c is affixed, at a right angle, the arm e , in such relative position and of such length that when the bar c is
40 applied to the arm a' the arm e will bear against the inner side of the arm a the entire length thereof, as shown in Fig. 3 of the drawings.

The extremity of the arm e is provided with
45 a central recess, r , as shown in Fig. 5 of the drawings, and the shoulders or extensions at the sides thereof, bearing against the sides of the bar b , brace the arm e laterally when the tie is in use.

The arm a' is provided on its inner face with
50 a shoulder, s , to retain the end of the band which is first applied thereto, and also to guard against outward strain on the hinged bar c .

The tie is applied to the hoop or band by
55 bending one end of said band around the arm a' . The other end of the band is passed around the hinged bar c , swung outward, as shown in Fig. 1, and then carried into the tie by bring-
60 ing the bar c around onto the arm a' , as illustrated in Figs. 2 and 3 of the drawings. The strain being thus thrown onto the arm e of the hinged bar c , the latter is securely retained
65 interlocked with the arm a' and the arms $a a'$ thoroughly braced.

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

1. In combination with the frame A, the
70 movable bar c , provided with the arm e , substantially as and for the purpose set forth.

2. The frame A, consisting of the bar b and the arms $a a'$, extended at right angles there-
75 from, and the bar c , hinged to arm a , and provided at the inner side thereof with the arm e , and at its opposite end with the eye d , all constructed, combined, and operating substan-
tially as described and shown.

3. The combination of the frame A, having
80 the arms $a a'$ extended at right angles from the bar b , and provided on the arm a' with the shoulder s , and the bar c , hinged to arm a , and provided at its free end with the eye d , and having the arm e , provided with recess r , all substantially in the manner described and
85 shown, for the purpose set forth.

In testimony whereof I have hereunto signed
my name and affixed my seal in the presence
of two attesting witnesses, at Syracuse, in the
county of Onondaga and State of New York, 90
this 8th day of August, 1879.

GEORGE R. SMITH. [L. s.]

Witnesses:

E. LAASS,
C. BENDIXEN.