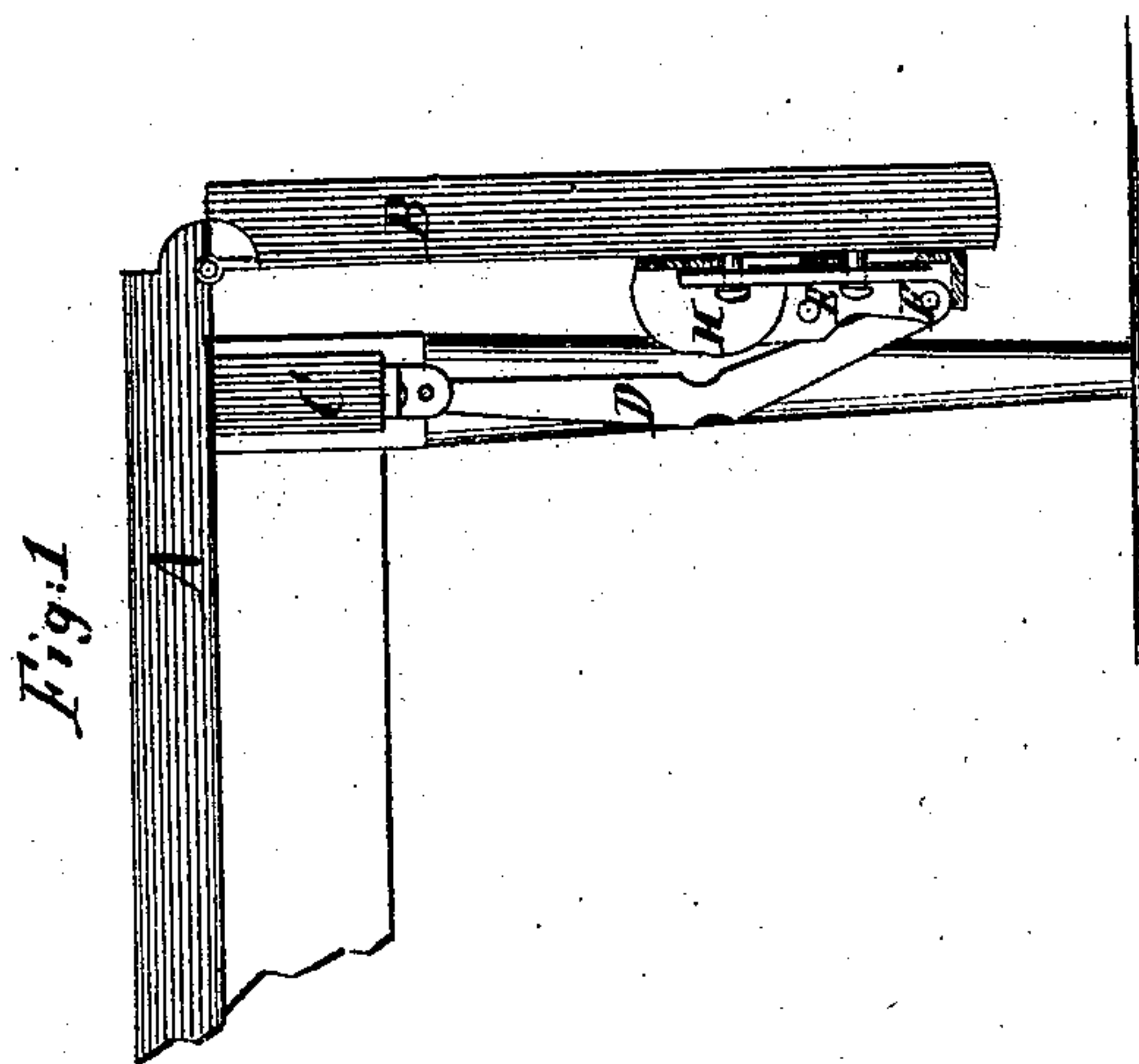
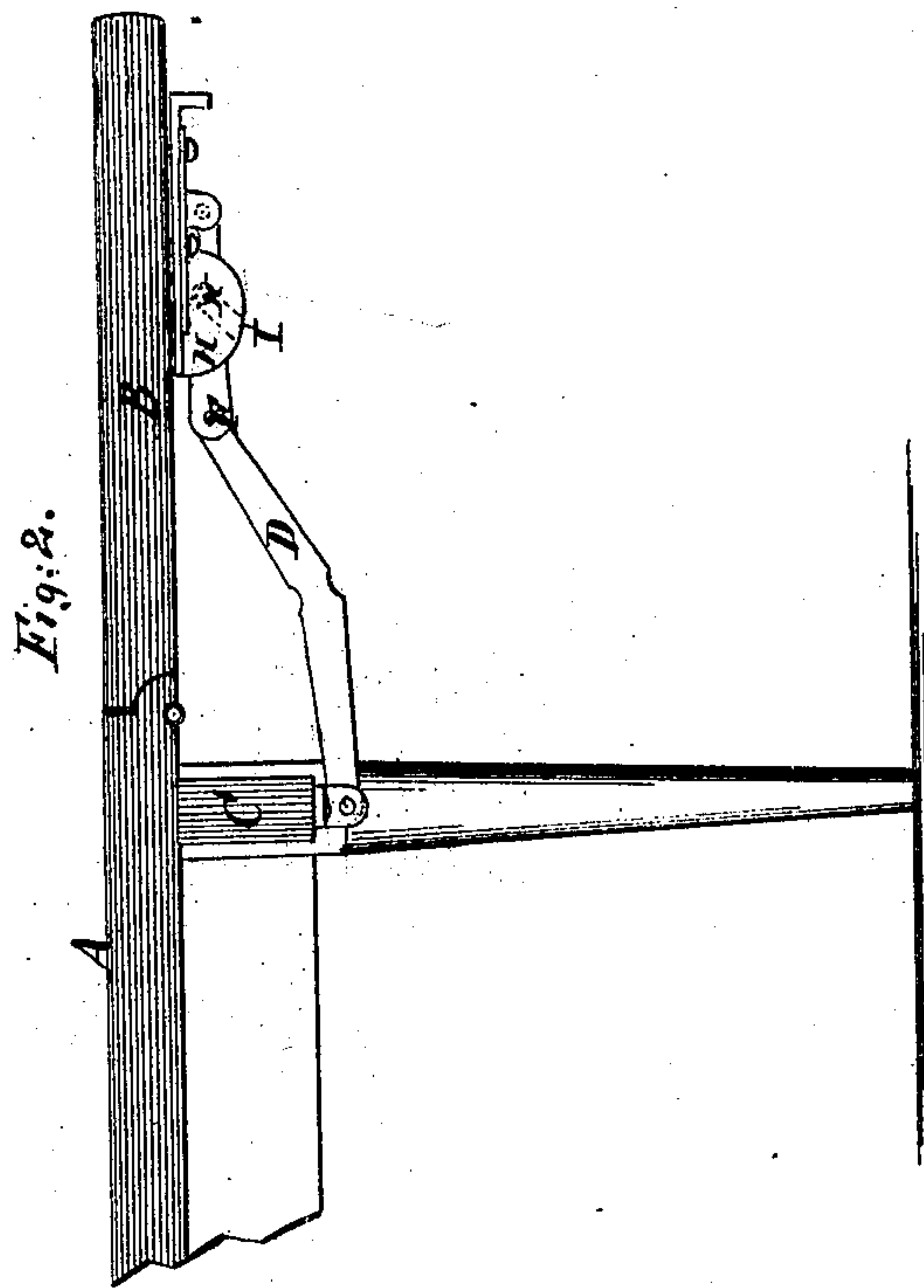


A. Forrest,
Table Leaf Support,
No. 102,528. Patented May 3. 1870.



Witnesses:
W. J. Gorlaund
L. J. Mabe

Inventor:
A. Forrest.
 PER *Munn & Co.*
 Attorneys.

UNITED STATES PATENT OFFICE.

ASA FORREST, OF MOINGONA, IOWA, ASSIGNOR TO HIMSELF AND O. L. FRENCH, OF SAME PLACE.

IMPROVED TABLE-LEAF SUPPORT.

Specification forming part of Letters Patent No. 102,528, dated May 3, 1870.

To all whom it may concern:

Be it known that I, ASA FORREST, of Moingona, in the county of Boone and State of Iowa, have invented a new and useful Improvement in Tables; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in apparatus for supporting the fall-leaves of tables; and it consists in the application of jointed braces pivoted at one end to the lower edge of the rail or other part of the table, and at the other to the under side of the leaf near the outer or lower edge; and so arranged that when the leaf is raised to the horizontal position the joint of the brace may be turned above the right line between the end pivots and retain the position by reason of the tendency of the weight of the leaf to prevent the braces assuming the right line, which they must do before folding down. The tendency of the weight to force the joint upward and the two parts to fold down the other way is counteracted by the arrangement of the arms, so that the joint will strike the under side of the table.

The invention also consists in the application of a safety-latch to facilitate the adjustment of the braces and to prevent them from being inadvertently thrown down.

Figure 1 is a transverse sectional elevation of a table with the leaf thrown down, and Fig. 2 is a similar section with the leaf in the elevated position.

Similar letters of reference indicate corresponding parts.

A is the top of the table; B, the leaf, and C the side rail of the top frame of the table.

D is one arm of the brace, and E the other. They are jointed together at F. D is pivoted to the under edge of the rail C, and E is pivoted to the under side of the leaf. These arms are so arranged as to length that when the leaf or fall is raised slightly above the horizontal line the joint F will come to a right line between the joints of the arms with the

rail and the leaf, and will admit of the said joint being raised above the said right line, so that the weight of the leaf or other weight thereon will prevent the folding down of the brace, and will cause it to fold up the other way. This, however, is prevented by the contact of the joint with the under side of the leaf, the arrangement being such that the joint will strike the table as soon as it passes the said line. When the leaf is to be put down the brace is bent back below the right line between the pivots at the ends, and then it readily folds down to the position represented in Fig. 2. This arrangement constitutes a very strong brace, much more capable and serviceable than the ordinary arms, which swing out from slots in the rails C in horizontal planes.

In order the more readily to adjust the brace to the holding position, and to secure it against being inadvertently thrown down, I have provided a sliding safety-latch, H, whereon is a vertical plate with an inclined slot, I, (shown dotted in Fig. 2,) which, when slid inward from the outer edge of the fall, will engage a pin, K, on the side of the short arm E of the brace, so as to force it up to the required position and hold it there. The same arrangement also throws the arm down when drawn back, as will be clearly seen by inspection of the drawings. These braces may be made either of metal, as shown in drawings, or of wood, joined together and to the feet and frame of the table with metal hinges or otherwise.

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

1. The jointed brace D E, when permanently attached to the fall-leaf at one end and to the frame of the table at the other, and having its two arms of such proportional length as to fold up in the manner described.

2. The combination, with the leaf and brace, of the safety-catch H, arranged and operating substantially as specified.

ASA FORREST.

Witnesses:

CHAS. KELLY,
W. W. YATES.