

(No Model.)

R. SMITH.
FOLDING TABLE.

No. 424,830.

Patented Apr. 1, 1890.

Fig. 1.

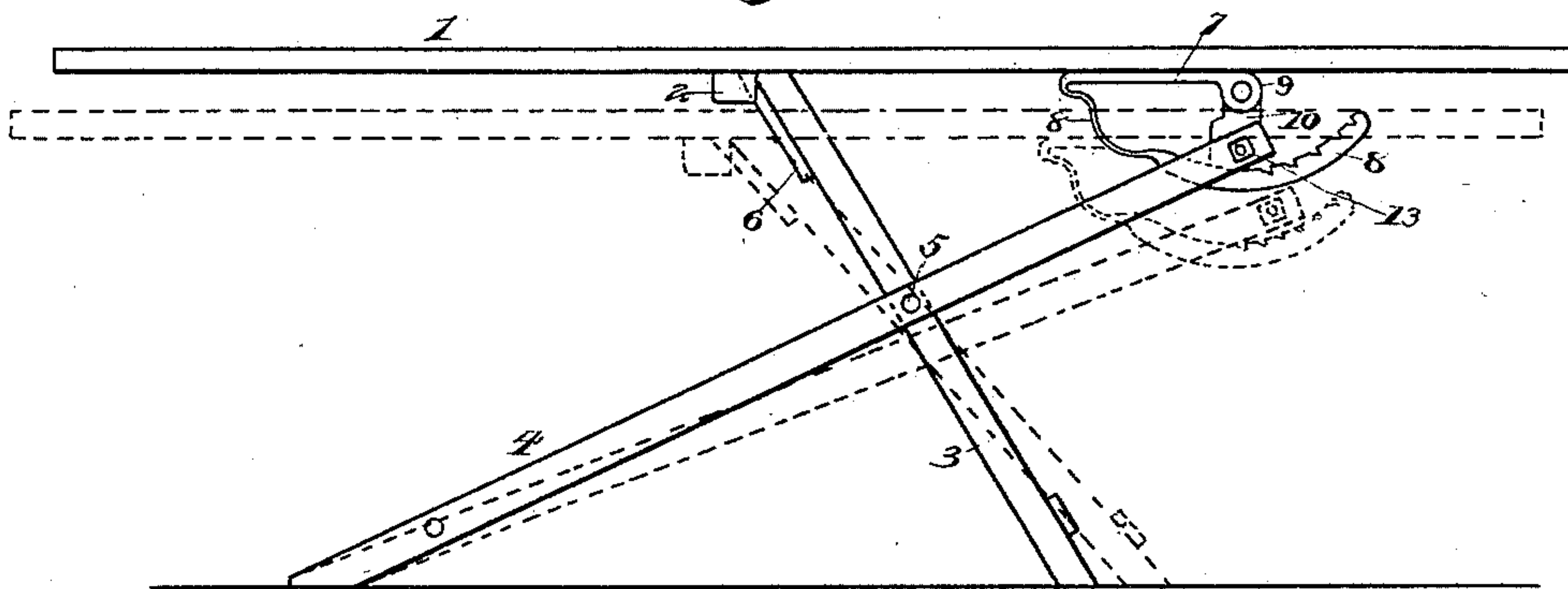


Fig. 2.

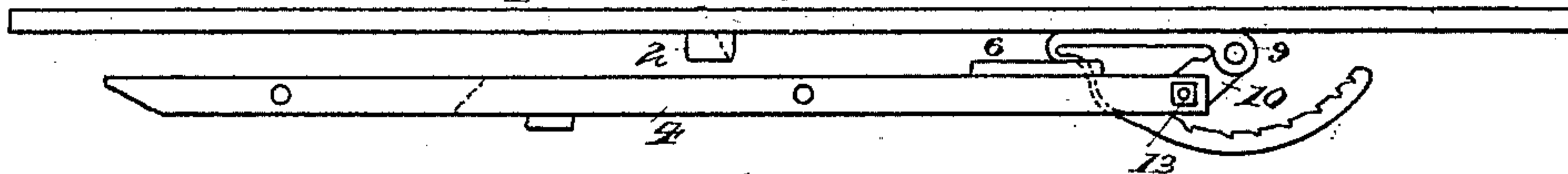


Fig. 3.

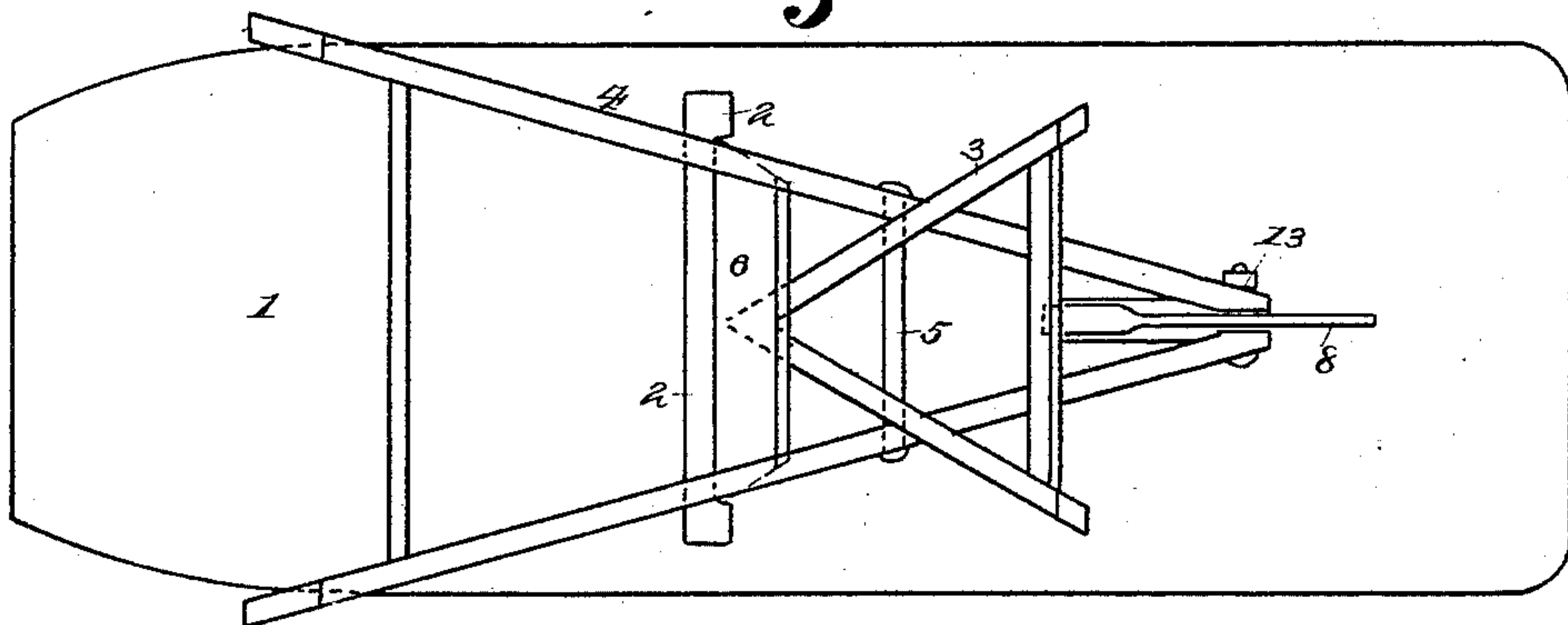
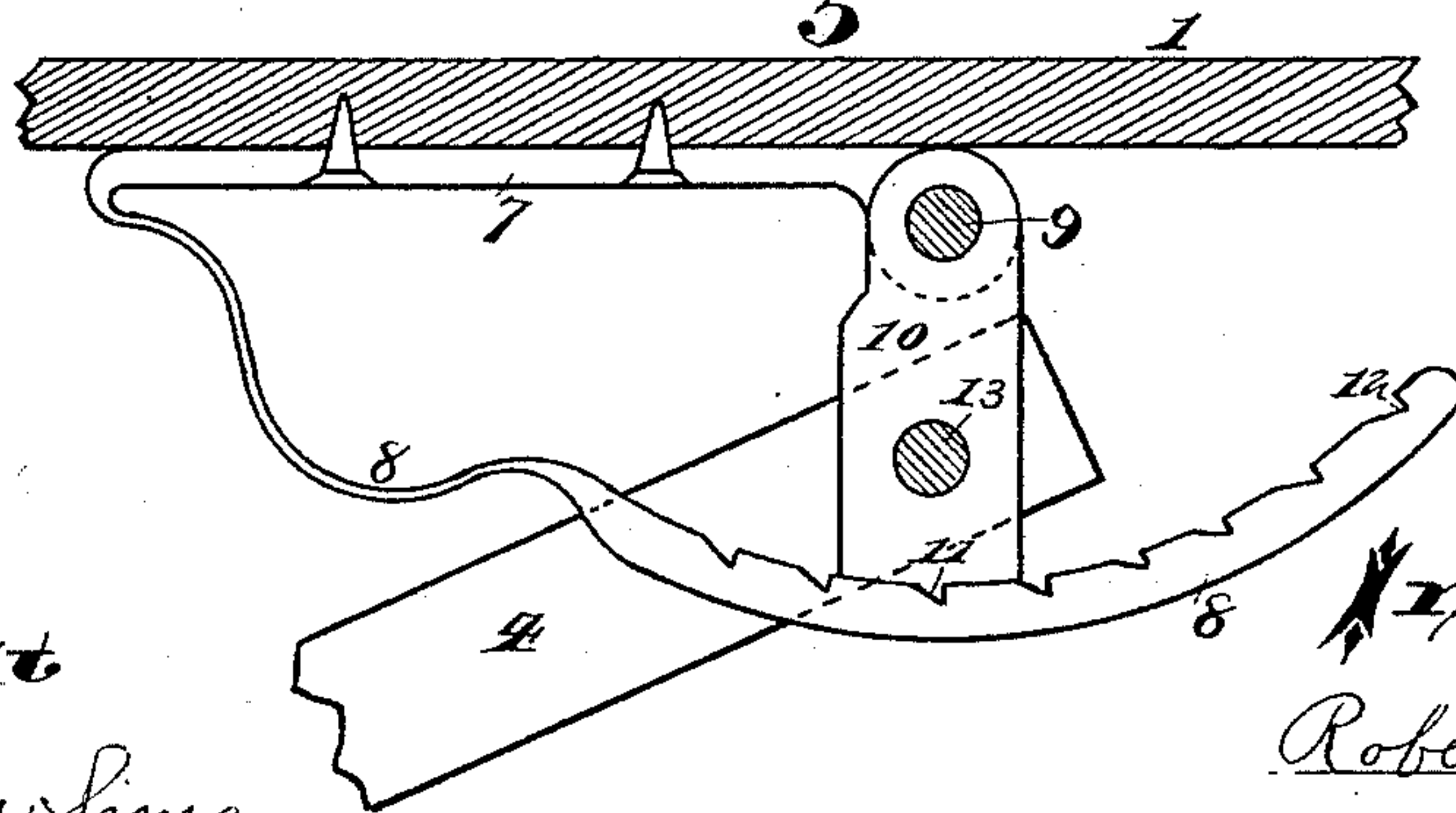


Fig. 4.



Attest

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UNITED STATES PATENT OFFICE.

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FOLDING TABLE.

SPECIFICATION forming part of Letters Patent No. 424,830, dated April 1, 1890.

Application filed September 3, 1889. Serial No. 322,855. (No model.)

To all whom it may concern:

Be it known that I, ROBERT SMITH, a citizen of the United States, and a resident of Sidney, in the county of Shelby and State of Ohio, have invented certain new and useful Improvements in Folding Tables, of which the following is a specification.

This invention has for its object to provide a table-top with novel means whereby it may be adjusted vertically and its horizontal position preserved.

To accomplish this object my invention involves the features of construction and the combination or arrangement of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of my invention in position for use. The dotted lines show the table adjusted in a lower position. Fig. 2 is a side elevation showing the same in a folded position. Fig. 3 is a bottom view. Fig. 4 is an enlarged central section of the adjusting device.

1 represents the table.

2 represents a cleat rigidly secured to the table, which serves as a stop to hold the pair of detachable legs 3 in position. These legs are connected in form of a V and pivoted to a similar-shaped pair of legs 4 by means of the rod 5. The point ends of these legs are provided with a cleat 6, rigidly attached to said point. When the legs are in position for use, they bear against the cleat 2.

7 represents a bracket securely attached to the table.

8 represents a spring firmly secured at one end to the bracket 7 and having its other and free end portion formed into the segment of a circle, with its upper curved edge provided with a series of notches 12.

9 represents ears attached to the bracket, to which is hinged a latch-block 10, provided with one or more teeth 11, that engage with the notches 12 of the segment. To this latch-block are pivoted the V-shaped pair of legs 4 by the rod 13. It will be observed that the legs 3 and 4 are fitted together in the center in the form of an X, and as the points 3 and 4 approach the table is raised, and lowered as they recede from each other. The point of the legs 3 is stationary against the cleat 2;

hence to adjust the height of the table it is necessary to change the position of the latch-block and its relation to the segment 8.

In order that the legs 4 may be shifted in the angle of inclination, draw the points nearer to or farther from the ends of legs 3. The free end of segment 8 rises or descends as the latch-block 10 is released to allow the adjusting of the latch-block 10, the teeth of which engage with the notches 12 to hold it in a fixed position. In the full lines shown in Fig. 1 the teeth of latch-block 10 are engaged with the inner notch of segments 8 and the table is in its highest position. As it is desired to lower the table, the free end of the spring-segment 8 is pressed down to release the engagement of the latch-block, which is swung on its center to engage with the notch near the end and lower the plane of the table, as shown in dotted line, Fig. 1, or the table may be readily raised from a lower position by raising the lock of the spring-segment 8 and moving the latch-block 10 backward as the table is raised.

In order to have the table folded into as compact a space as possible, the legs 3 fold within the legs 4. The position when folded is indicated in dotted lines, Fig. 2, and approximately by dotted lines, Fig. 3. The object of making these two sets of legs of V shape is simply to strengthen the same with less material than would be required if they were of a parallel form.

The device herein shown will be readily folded or set up at any desired height while in working position.

Having described my invention, what I claim is—

1. The combination of the table-top, the legs 3, connected therewith, the bracket 7, having a pivoted pendent latch-block 10, the legs 4, pivoted to the other legs and at their upper ends pivoted to the latch-block below its pivot-pin, and the spring 8, secured to the bracket and having its free end portion formed into the segment of a circle and provided at its upper edge with notches to engage the lower end of the pendent latch-block, substantially as described.

2. The combination, with the table-top and the legs 3, connected therewith, of the pendent latch-block 10, pivotally connected at its

upper end with the table-top and having a tooth 11 at its lower end, the legs 4, pivoted to the other legs and having their upper ends pivoted to the latch-block above its toothed 5 end, and a spring having notches with which the tooth of the latch-block engages, substantially as described.

In testimony whereof I have hereunto set my hand.

ROBERT SMITH.

Witnesses:

HAYWARD D. GATCH,
WM. F. ROSS.