

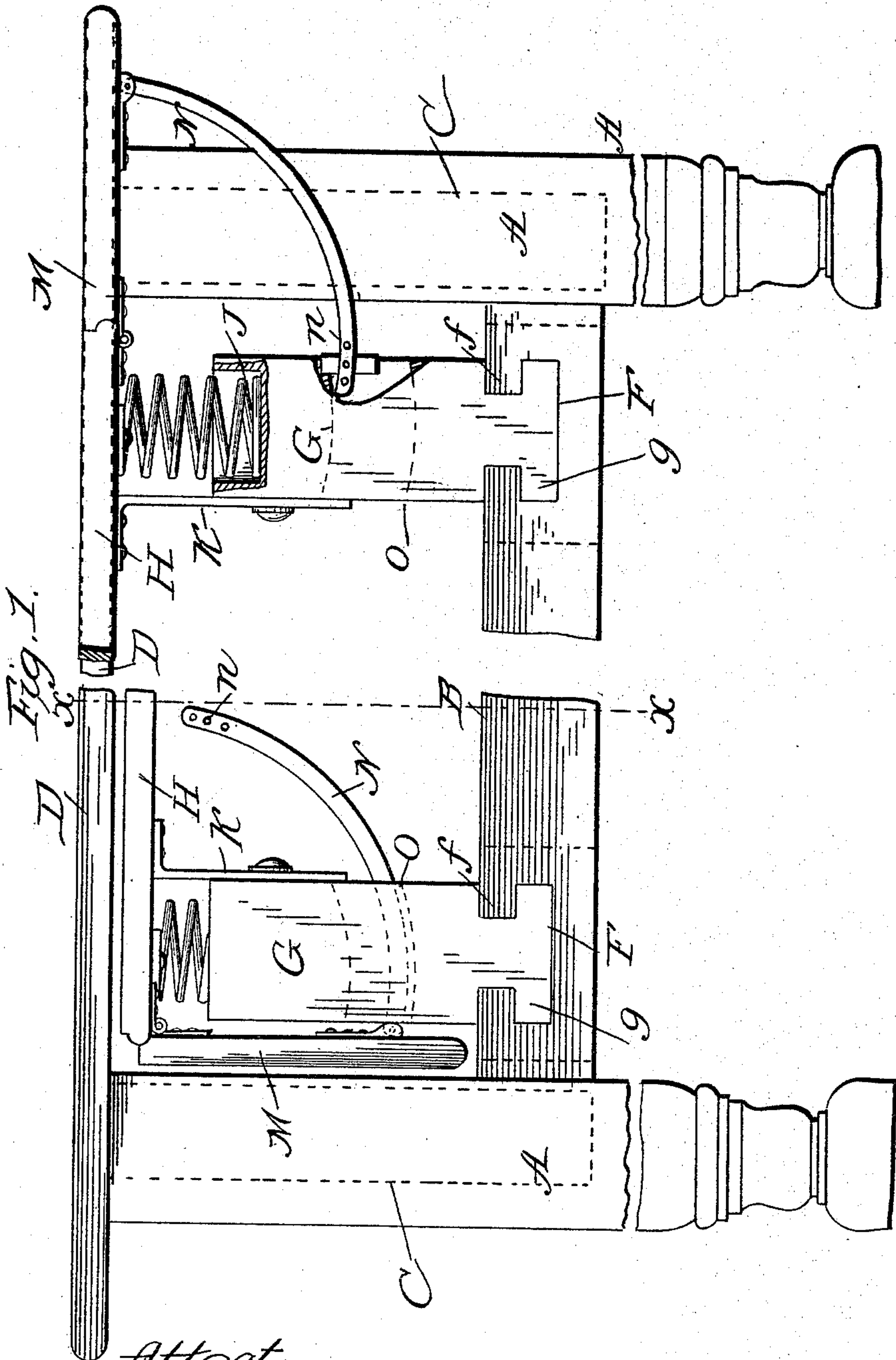
(No Model.)

2 Sheets—Sheet 1.

S. S. SINGER.
EXTENSION TABLE.

No. 497,080.

Patented May 9, 1893.



Attest
Miller Donaldson
James M. Spear

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Samuel S. Singer
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ATTY.

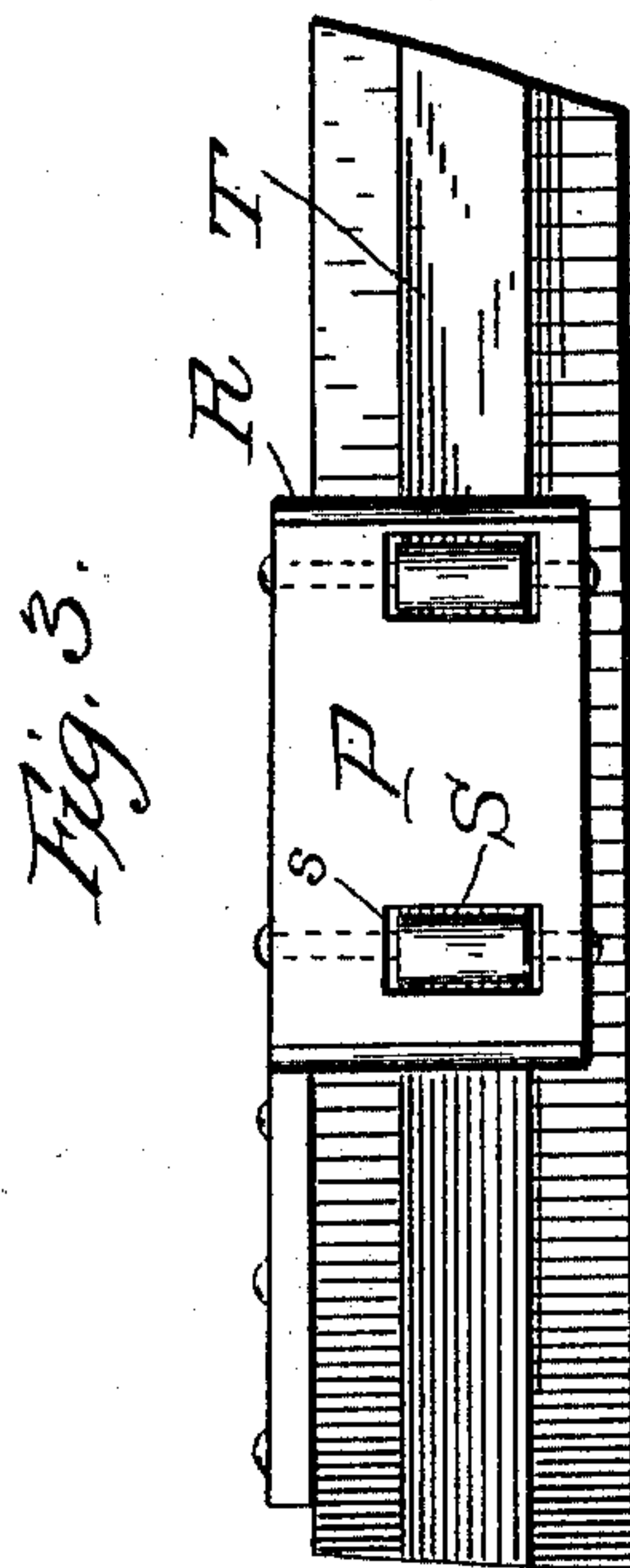
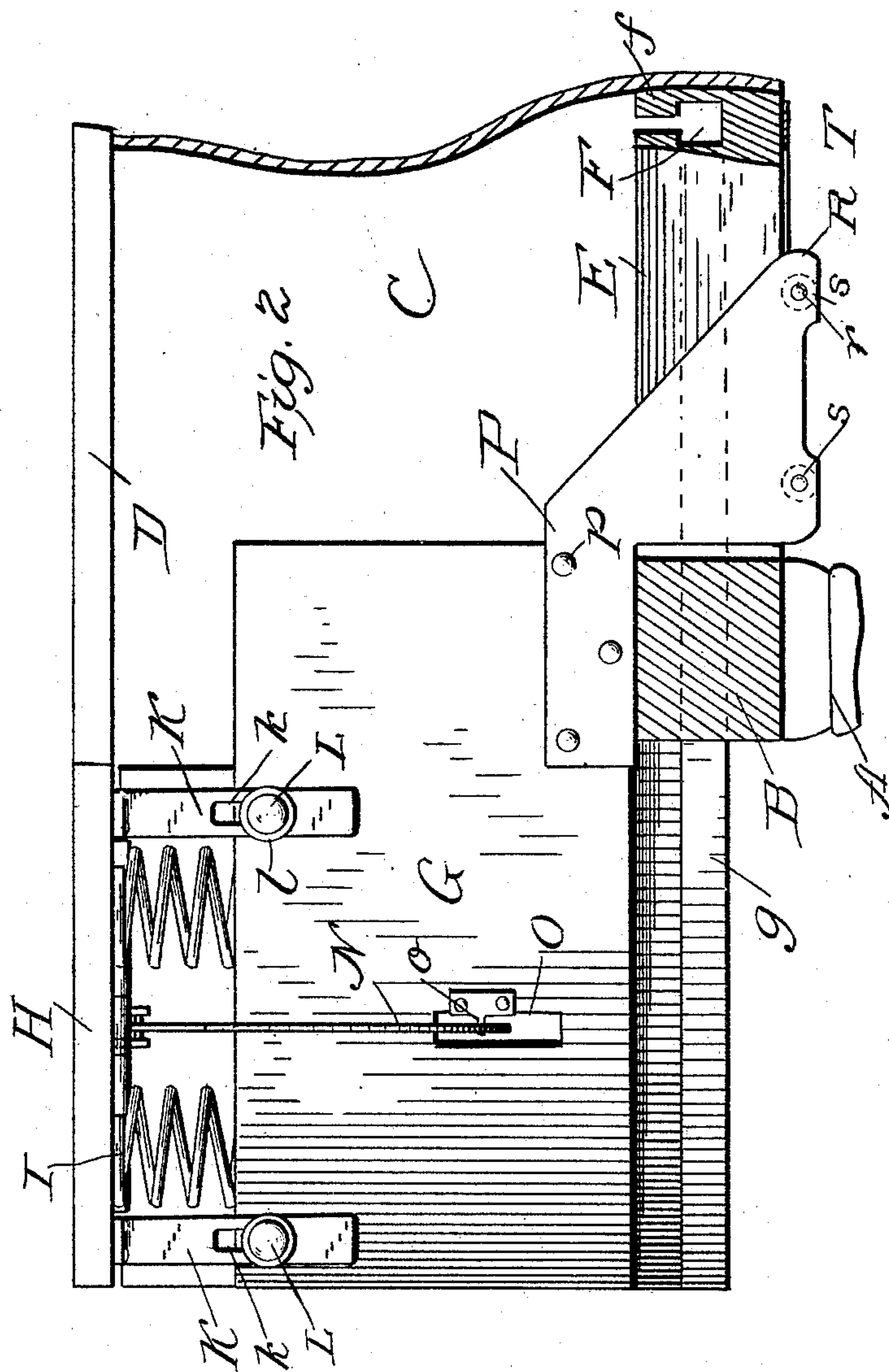
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2 Sheets—Sheet 2.

S. S. SINGER.
EXTENSION TABLE.

No. 497,080.

Patented May 9, 1893.



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UNITED STATES PATENT OFFICE.

SAMUEL S. SINGER, OF HELENA, MONTANA, ASSIGNOR OF ONE-HALF TO
HERMAN KLINE, OF SAME PLACE.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 497,030, dated May 9, 1893.

Application filed November 19, 1892. Serial No. 452,510. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL S. SINGER, a citizen of the United States of America, residing at Helena, in the county of Lewis and Clarke and State of Montana, have invented certain new and useful Improvements in Extension-Tables, of which the following is a specification.

My invention is an improvement in extension tables of the form in which a series of spring supported leaves are normally held in a depressed position beneath the main portion of the table top and are thus concealed from view, but are held in a convenient manner ready to spring into position when the sliding portions of the table are extended.

The invention is illustrated in the accompanying drawings, in which—

Figure 1, is an end view of a table constructed in accordance with my invention, the supplemental top being shown down on the left and drawn out and raised on the right of the said figure. Fig. 2, is a sectional view on line $x-x$ of Fig. 1 looking toward the left with the supplemental table drawn out from beneath the main table and raised. Fig. 3, is an enlarged plan view of the under side of the track and the guide piece.

Referring more particularly to these drawings A, A, represent the legs of the table, these legs being connected by the cross bars B, B, and by the side pieces C, C, as shown in Figs. 1 and 2. D, represents the main top of the table, which is secured rigidly to the upper edges of the side pieces C, C, in the ordinary or any desired manner.

It will be observed that the cross bars B, are located with their upper faces below the tops of the table legs, so that a space is formed between the said cross bars and the table top D.

E, E, are bars located one at each side of the table and extending between the cross bars B, B, with which they are rigidly connected.

A longitudinal groove or way is formed in each bar E, as at F, this groove or way extending through the cross bars B to the outer faces thereof and the bed of the way is preferably formed enlarged so as to provide the overhanging shoulders or flanges f .

G, G, are sliding bars which have their lower edges provided with the flanges g , formed by cutting grooves near the lower edges of the bars G, so that the bars will be held firmly in the ways, while at the same time free sliding movement is permitted. Upon these sliding bars, of which there are four, as shown, two at each end of the table, are mounted the supplemental leaves H, H, which are designed to form an extension of the main top at each end thereof. These supplemental leaves are mounted upon springs I, which tend to keep the leaves forced upward in the position shown in Fig. 2, and on the right of Fig. 1 but they may be forced downward against the pressure of said springs, into the position shown on the left in Fig. 1, in order that the sliding bars and leaves may be shoved beneath the rigid top D when the table is closed.

I prefer to provide a counter sink or recess as at J, in which the lower end of each spring is seated to allow for the compression of the spring and aid in holding it in the proper position.

For the purpose of guiding the supplemental leaves in their vertical movement and causing them to be retained with their upper surfaces flush with the surface of the main top, the clips K, are provided secured to the under side of the supplemental top by means of screws. These clips have a slot k , which is engaged by a screw L, secured to the sliding piece. I find it desirable to provide a washer l , between the head of the screw and the clip to permit more free action and prevent wear.

As the ends of the supplemental leaves extend out flush with the edges of the main top it is necessary to hinge the portions which extend out beyond the sliding bars, as at M, to permit them to be folded down into the position shown on the left in Fig. 1, in order that they may not come in contact with the legs of the table when the sliding bars are pushed back beneath the main top. These hinged portions are attached by means of any suitable hinges and near the outer edge of each is pivotally connected the end of a curved arm or brace N, which has its other end sliding within a recess O formed in the sliding bar.

The arm N is provided with a series of holes *n* which are adapted to be slipped over a pin or projection *o*, secured in the wall of the opening or recess O, by a slight sidewise movement of the arm which has sufficient play for this purpose, and by this means the pivoted portion of the leaf may be held in the same plane with the remaining portion.

For facilitating the reciprocation of the sliding bars, and also for preventing them from being entirely with-drawn from the ways in which they travel I have provided the mechanism illustrated more clearly in Figs. 2 and 3. This consists of a guide piece P, which is secured to the side of the sliding bar, by means of screws *p*, and is adapted to conform to the face of the connecting bar E. The lower edge of the piece P is provided with a horizontal flange R, which extends beneath the bar E. Openings S, are formed in this flange in which are located rollers *s*, journaled upon transverse rods *r*. Preferably a track T is secured to the under face of each bar E, against which the rollers bear. This construction aids very materially the sliding action of the bars as it is possible to have a very close fit between the rollers and the track, thus preventing any loose movement of the bars, and rendering the supplemental portions firm and steady, while at the same time the rollers prevent any binding action as the bars are drawn out or in.

In the form of table illustrated in Figs. 1, 2 and 3, I have shown my invention as embodied in a table in which the central portion of the top is rigid, and the supplemental leaves are adapted to be drawn out and to enlarge or extend the table by forming an addition to each end thereof, and while I have shown but one supplemental leaf it will be understood that I do not limit myself in this respect as any number may be mounted upon the sliding bars as is found desirable, the said

bars being of course lengthened sufficiently to carry the additional levers.

I claim—

1. In combination, the main top, the bars sliding beneath the same, supplemental leaves mounted upon yielding springs upon said bars and adapted to be depressed below said top, said leaves having their outer portions hinged and adapted to fold down against the sliding bars, substantially as described.

2. In combination, the table frame carrying the main top, rigid bars supported by the frame and provided with longitudinal ways, sliding bars resting in the ways, brackets secured to the sliding bars and terminating beneath the rigid bars and supplemental leaves supported upon yielding springs upon the sliding bars, substantially as described.

3. In combination, the frame carrying the main top, rigid bars supported by the frame provided with longitudinal ways, sliding bars mounted in the ways and carrying supplemental leaves, brackets secured to the sliding bars having their lower ends extending beneath the rigid bars, with rollers journaled in said brackets and bearing against the under surfaces of the rigid bars, substantially as described.

4. In combination, the table frame having the main top, the rigid bars having guide-ways therein, bars sliding in said ways, with suitable retaining means, supplemental leaves mounted on yielding springs on the sliding bars, with slotted clips secured to said leaves for guiding and limiting the movement thereof, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

SAML. S. SINGER.

Witnesses:

HERMAN FLIGELMAN,
DAVID FICHMAN.