

(No Model.)

C. HAUSER.  
EXTENSION TOP.

No. 442,223.

Patented Dec. 9, 1890.

Fig. 1.

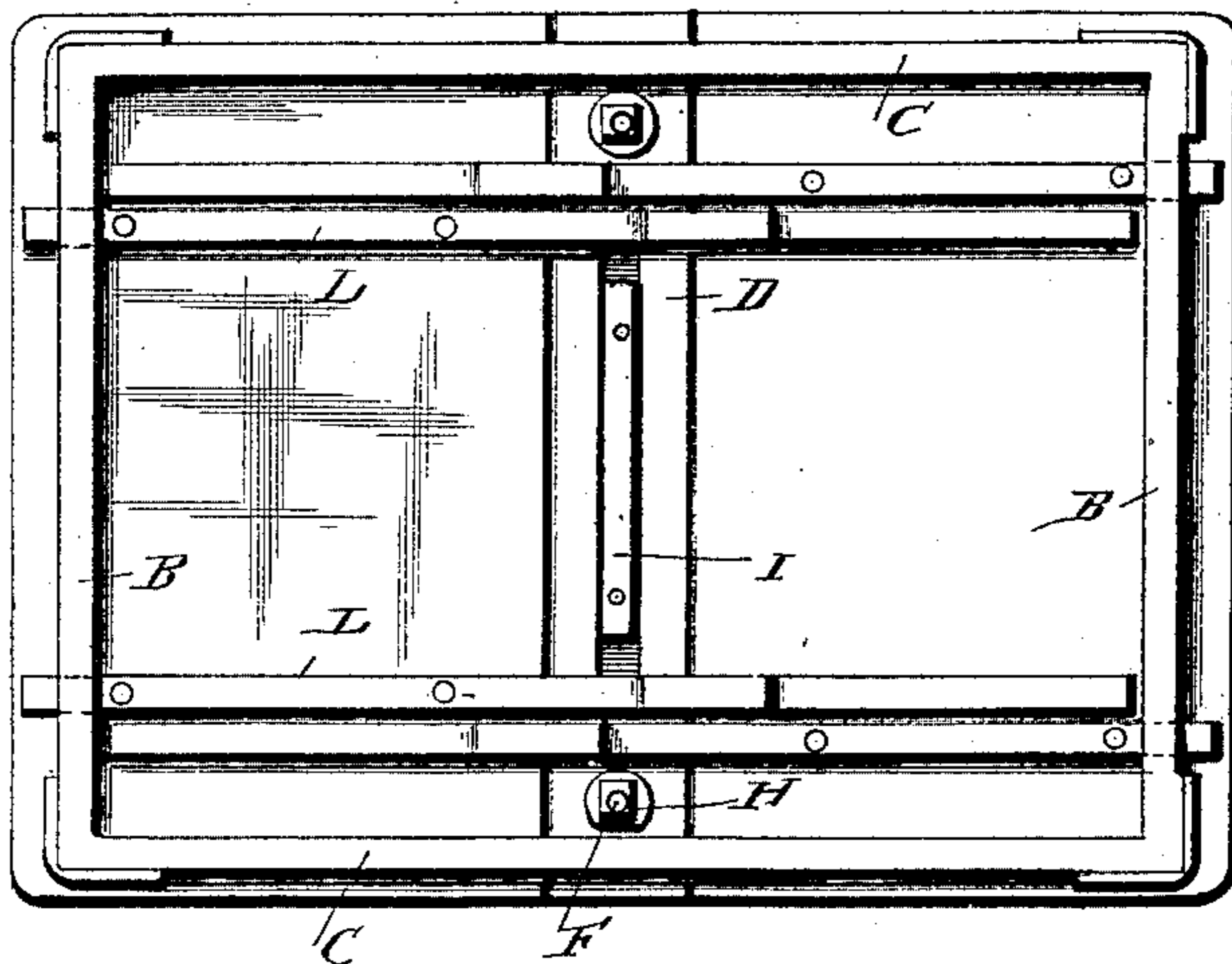


Fig. 2.

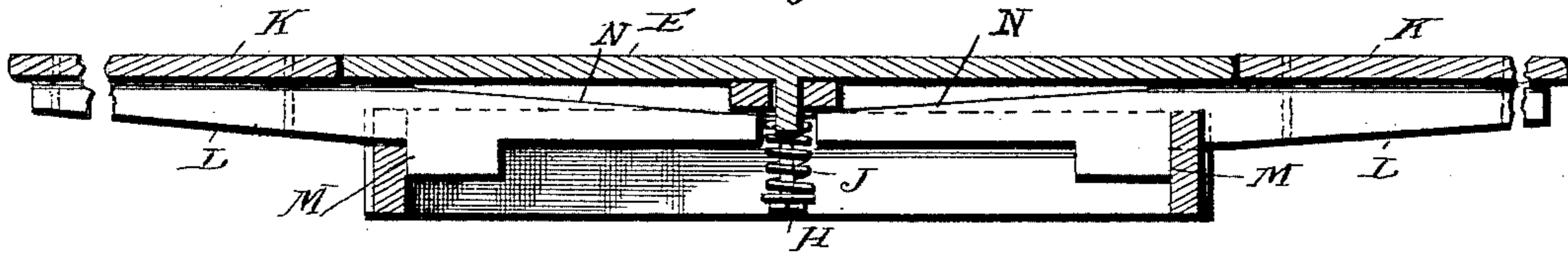


Fig. 3.

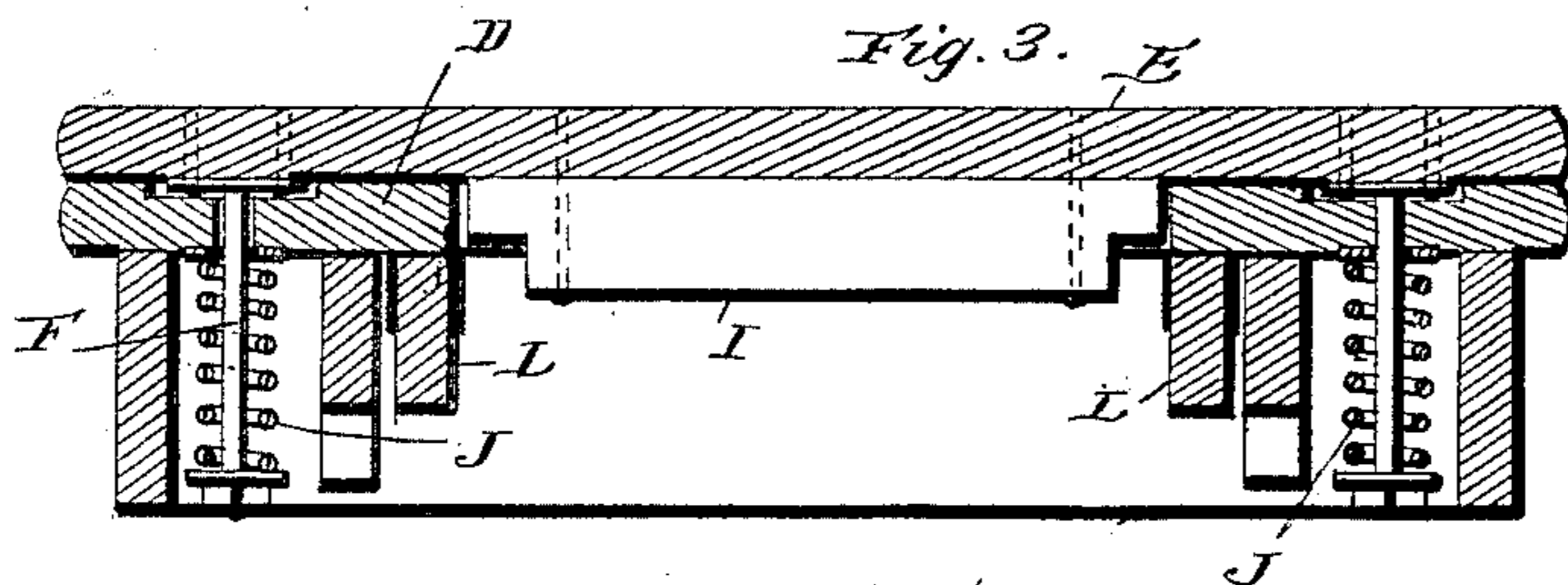
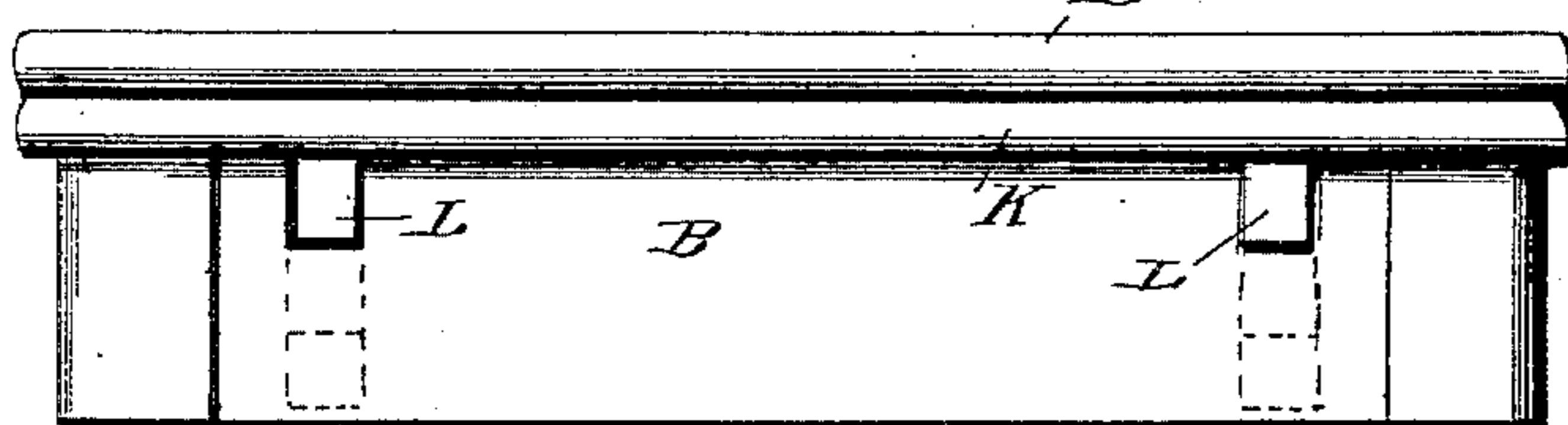


Fig. 4.



Witnesses:

*C. H. Raeder*

*Thomas C. Turpin*

Inventor

*Christian Hauser*

*James Sheehy*

Attorney

# UNITED STATES PATENT OFFICE.

CHRISTIAN HAUSER, OF ELMWOOD, CANADA.

## EXTENSION-TOP.

SPECIFICATION forming part of Letters Patent No. 442,223, dated December 9, 1890.

Application filed September 15, 1890. Serial No. 365,063. (No model.) Patented in Canada January 23, 1890, No. 33,489.

*To all whom it may concern:*

Be it known that I, CHRISTIAN HAUSER, a citizen of the Dominion of Canada, residing at Elmwood, in the Province of Ontario and Dominion of Canada, have invented certain new and useful Improvements in Extension-Tops; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to an improvement in extension-tops, and while it is particularly adapted for use as an extension-top table, yet the improvements may be advantageously used on counters, stands, and supports of various characters.

In the illustration of my invention I have shown a top which may form a table-top by the addition or employment of legs, or the main frame may be provided with any suitable means of support.

The improvements will be fully understood from the following description and claim, when taken in connection with the accompanying drawings, in which—

Figure 1 is an inverted plan view of my improved top, the extensible sections thereof being folded or nested. Fig. 2 is a vertical longitudinal sectional view of the same, the sections being illustrated in their extended positions. Fig. 3 is a vertical transverse sectional view, and Fig. 4 is an end elevation of my improved table-top.

In the said drawings similar letters of reference indicate corresponding parts throughout the several views, referring to which—

B indicates the two end rails, and C the two side rails, which constitute the main frame of the top and to which the legs or other supports are attached. This frame, although illustrated as substantially rectangular in form, may be of any desired contour suitable to the purpose.

D indicates the flat transverse bar, which is suitably secured to and connects the side rails C at the middle of the table.

E indicates the permanent top, which rests on the said cross-bar D and is normally held down upon the same through the medium of bolts F passing therethrough. These bolts F are provided with a screw-nut H, and are sur-

rounded by a coiled retracting-spring J, which rests between the nut and the bracket, whereby the table-top E is allowed an upwardly-yielding movement when upper pressure is applied and is normally held down on top of the bar D.

I indicates a transverse depending strip upon the under side of the top E, which takes into a corresponding slotted opening in the transverse flat bar D and serves to guide the top E and prevent longitudinal and lateral play thereof. It is obvious that in some instances a depending lug or pin may be employed to perform the functions of the strip I; but such strip is preferable, inasmuch as it affords a firmer seat for the table.

K indicates the supplementary extension-tops of my improvements, which fit under the permanent top E and are of a length equal to the distance from one end of the permanent top to the bar D. These auxiliary extension-tops K have rails L secured thereto, which extend inwardly and across bar D to a point adjacent to end rails B, and the said end rails are notched, as illustrated, to receive the opposite end of the said inwardly-extending rails. When in a folded position the outer ends of the said rails L will extend from the notches in the rails B, whereby a grip is afforded by which the extension-tops may be drawn out into their extended positions. The rails L taper from a stop projection M adjacent to their middle to the outer ends or handle portions, so that in drawing out the extension-top from under the permanent top E the permanent top will give upwardly, and at the same time exert a downward resistance on the extension-tops, so that when the limit of extension is reached the springs will retract and draw down the permanent top E to the plane of the extension-tops K. Said rails L are also tapered on their upper sides from near a central point to their inner ends, as shown at N, whereby when the leaves are drawn outwardly the said upper inclines or tapers may ride under the cross-bar D. When the extension-tops are to be returned to the closed or nested position, the end of the permanent top is raised by hand against the retracting resistance of the springs, and either one or both of the extension-tops may be pushed under said perma-

5    nent top. By screwing up the nuts and there-  
by contracting the springs their resiliency  
will be decreased and their power or strength  
increased to offer greater resistance to cause  
the permanent top to spring with greater force,  
whereby a greater friction will be presented  
against the extension-top to hold it the more  
firmly.

10    It is obvious from the foregoing description  
that if desirable but one extension-top may  
be employed and that they may be operated  
independent of each other.

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

20    The improved extension-top for tables de-  
scribed, consisting, essentially, of the rectan-  
gular frame comprising the bars B and C, the  
vertically-movable top E, having the strip I  
depending from its under side, the cross-bar  
D, secured to the side rails C in the center of  
the frame, said cross-bar having a vertical

elongated slot to receive the depending strip  
I of the main top, and also having apertures  
near its opposite ends, the bolts F, secured at  
their upper ends to the main top and passing  
through the apertures in the cross-bar, the  
springs J, surrounding said bolts beneath the  
cross-bar, the nuts on the lower ends of the  
bolts, the sliding extension-leaves K, and the  
bars L, secured at their outer ends to the un-  
der sides of the extension-leaves, said bars  
having a stop M on their under side and taper-  
ing on their under sides toward their outer  
ends, and tapering on their upper sides toward  
their inner ends, whereby the extension-leaves  
may be allowed to rise and fall while sliding,  
substantially as specified.

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

CHRISTIAN HAUSER.

Witnesses:

JOSIAH DIRSTEIN,  
ELIAS DIRSTEIN.