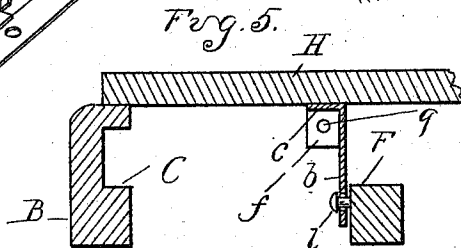
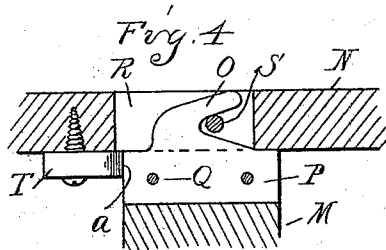
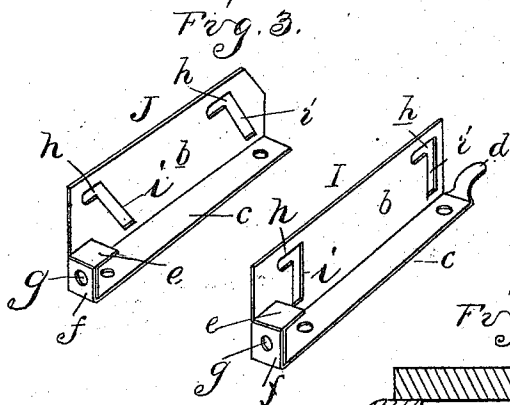
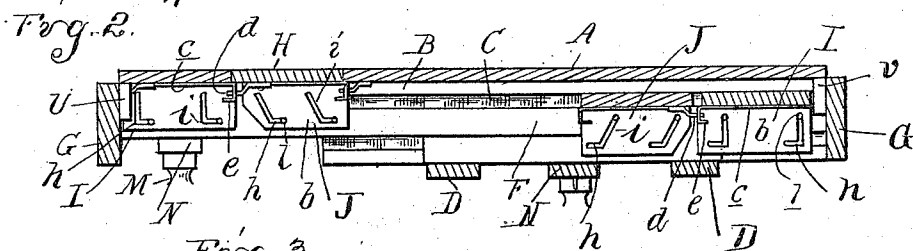
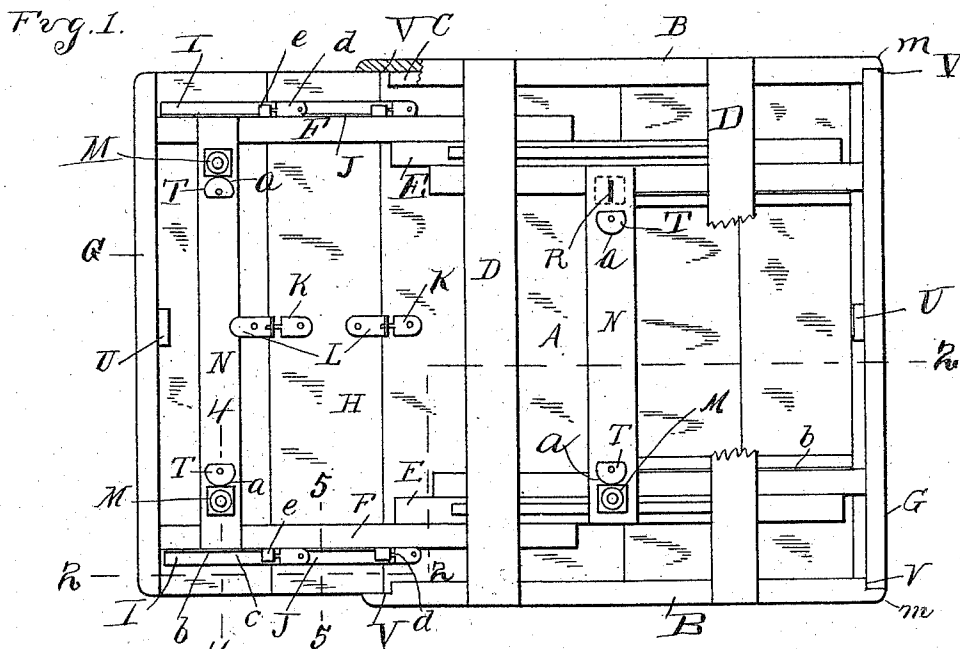


(No Model.)

C. W. MUNZ.
EXTENSION TABLE.

No. 580,417.

Patented Apr. 13, 1897.



Witnesses
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Attys.

UNITED STATES PATENT OFFICE.

CHARLES W. MUNZ, OF DETROIT, MICHIGAN.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 580,417, dated April 13, 1897.

Application filed June 29, 1896. Serial No. 597,382. (No model.)

To all whom it may concern:

Be it known that I, CHARLES W. MUNZ, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Extension-Tables, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the means employed for connecting the leaves with the sliding rails; further, in the means for detachably connecting the legs to the table, and, further, in the peculiar construction, arrangement, and combination of parts, as more fully hereinafter described and claimed.

In the drawings, Figure 1 is a bottom plan view of my table, showing the leaves at one end stored and on the other end extended. Fig. 2 is a vertical longitudinal section thereof on line 2 2. Fig. 3 is a perspective view of the connections between the leaves and sliding rails, detached. Fig. 4 is a section on line 4 4, Fig. 1, showing the detachable connection for the legs; and Fig. 5 is a cross-section on line 5 5, Fig. 1.

A is the stationary top of the table, secured to the side bars B, which are provided on their inner sides with the longitudinal grooves C.

D are cross-bars secured at their ends to the under side of the bars B.

E are stationary rails secured to the bars D, to which are slidably secured the rails F of the extension-sections of the table.

G are bars connecting the outer ends of the sliding rail F and forming the end bars of the table.

H are the leaves, which are secured to the rails F, so as to admit of being raised and lowered, by means of the connections I and J. These connections are preferably formed of sheet metal comprising a downwardly-extending flange *b* and the securing-flange *c*, bent at right angles thereto, adapted to be secured to the lower side of the leaf.

d are pins or dowels projecting from one end of the flange *c*, and a corresponding socket is formed at the other end, preferably by the flanges *e* and *f*, having the aperture *g* formed therein.

This flange *b* is provided with parallel slots

comprising a laterally-extending portion *h* and the upwardly-extending portion *i*.

The connections I and J are secured to the leaves H, so that the flanges *b* will extend beside the rails F, to which they are secured by pins *l*, projecting from said rails and engaging with the slots in the flanges. The end leaves H are provided with the connections I and the intermediate leaves with the connections J, the only difference being that the upwardly-extending portion of the slots in the members J are preferably inclined, so as to give the leaves to which they are attached a greater lateral movement in relation to the slides.

K are dowels at the center of the leaves, adapted to engage with sockets L on the adjoining leaves.

M are legs detachably secured to the cross-bars N below the center and the extension-sections of the table. The detachable connection between the legs and cross-bars comprises the hooked tongue O, projecting from the upper end of each leg and preferably attached thereto by means of the shank P, extending into a slot in the leg and secured therein by the screw or pins Q.

R are slots in the bars N, adapted to receive these tongues, and S are cross pins or lugs in said slots, all so arranged that by entering the tongues into the slots R and then moving them laterally said tongues will engage with the pins S and bind the legs to the bars. Means for locking the tongues in engagement with the pins is provided, preferably consisting in the turn-buttons T, secured to the bars N, the eccentric face *a* of which is adapted to bear against the sides of the leg and hold it in position.

U are blocks on the inner sides of the end bars G, on which the end leaves H are adapted to rest.

The bars G have square ends, which are flush with the ends of the leaves and are adapted to fit into the rabbets V in the ends of the side bars B, said ends of side bars being rounded off at *m*.

The operation of the parts is as follows: When the table is contracted, the leaves H rest upon the rails F and are stored in the space between said rails and the top of the

table, their ends extending into the grooves C in the side bars B. To extend the table, the end bars G are drawn out, carrying with them the sliding rails F and leaves H. The end leaf is then raised by the operator to the level of the stationary top A, the pins *l* sliding in the slots *i*, and is then moved laterally to bring the pins *l* to the end of the slots *h*. In this position the leaf will rest upon the pins *l*, its outer edge resting upon the block U beside the bar G. The next leaf is then raised in a similar manner and moved laterally, which brings the dowels *d* and K into engagement with the sockets *g* and L. When all or the required number of leaves are raised, the end is moved in sufficiently to bring the sockets L and *g* on the inner leaf into engagement with the dowels K and *d* on the stationary top. To again contract the table, the leaves H are moved laterally to disengage the pins *l* from the lateral slots *h* and dowels *d* and K from the sockets *g* and L, after which they may be lowered to rest on the rails F. The inclination of the slot *i* in the connection J is to permit the inner leaves to move relatively farther in a lateral direction, so that the leaves will be separated sufficiently to disengage the dowels from their sockets. This same object may be accomplished, however, by making the laterally-extending portions of the slots progressively longer from the outer to the inner leaves.

What I claim as my invention is—

1. In an extension-table, the combination with the sliding rail and a leaf carried thereby, of a connection between said rail and leaf, comprising a flange depending from the leaf beside the rail having a laterally and upwardly extending slot formed therein, and a pin projecting from the side of said rail and engaging with said slot.

2. In an extension-table the combination with the sliding rail and a leaf carried thereby, of a connection between said rail and leaf, comprising a flange depending from the leaf beside the rail, having parallel slots formed therein, each slot consisting of a laterally and an upwardly extending portion, and pins projecting from the side of said rail and engaging with said slot.

3. In an extension-table, the combination with the sliding rail and a plurality of adjoining leaves carried thereby, having a dowel engagement with each other, of flanges depending from said leaves beside the rail having laterally and upwardly extending slots formed therein, the lateral extent of said slots

being progressively greater in the succeeding flanges from outer to inner leaves, and pins projecting from the side of said rail engaging with said slots.

4. In a table, the combination with the table-body provided with the slotted bar N having the lug or pin S in the slot, of a leg provided with the upwardly-extending hooked tongue adapted to enter the slot in said bar and be engaged with said lug by a lateral movement, and means, such as the turn-button T, for locking said tongue and lug in engagement.

5. In an extension-table, the combination with a stationary top provided with grooved side bars, having the rabbets V formed at their ends, of the extension-section comprising sliding rails, an end bar connecting said rails and having square ends adapted to fit in the rabbets V and one or more leaves carried by said sliding rails having their ends flush with the ends of said end bar.

6. In an extension-table, the combination with the stationary top and the sliding rails, of an end bar connected to said rails provided with the block U, a leaf carried by said rails, flanges depending from said leaf beside said rails having laterally and upwardly extending slots formed therein and pins projecting from the side of said rails engaging with said slots, said pins and flanges forming a raising and lowering connection whereby said leaf may be made to rest on either the rails or the block U.

7. In an extension-table, the combination with the sliding rails and a leaf carried thereby, of a sheet-metal connection between said leaf and rail comprising the securing-flange *c*, the depending flange *b* having parallel slots formed therein, each slot having a laterally and upwardly extending portion, the dowel *d* at one end and an apertured flange forming a socket at the other end, and the pins *l* projecting from the side of said rails engaging with said slots.

8. In an extension-table, the combination with the sliding rail and a leaf carried thereby, of a flange depending from said leaf beside the rail and having an upwardly and laterally sliding engagement therewith.

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

CHARLES W. MUNZ.

Witnesses:

M. B. O'DOHERTY,
OTTO F. BARTHEL.