(No Model.) 2 Sheets—Sheet 1.

W. HODGE.

EXTENSION TABLE.

No. 440,356. Patented Nov. 11, 1890.

Fig. 1.

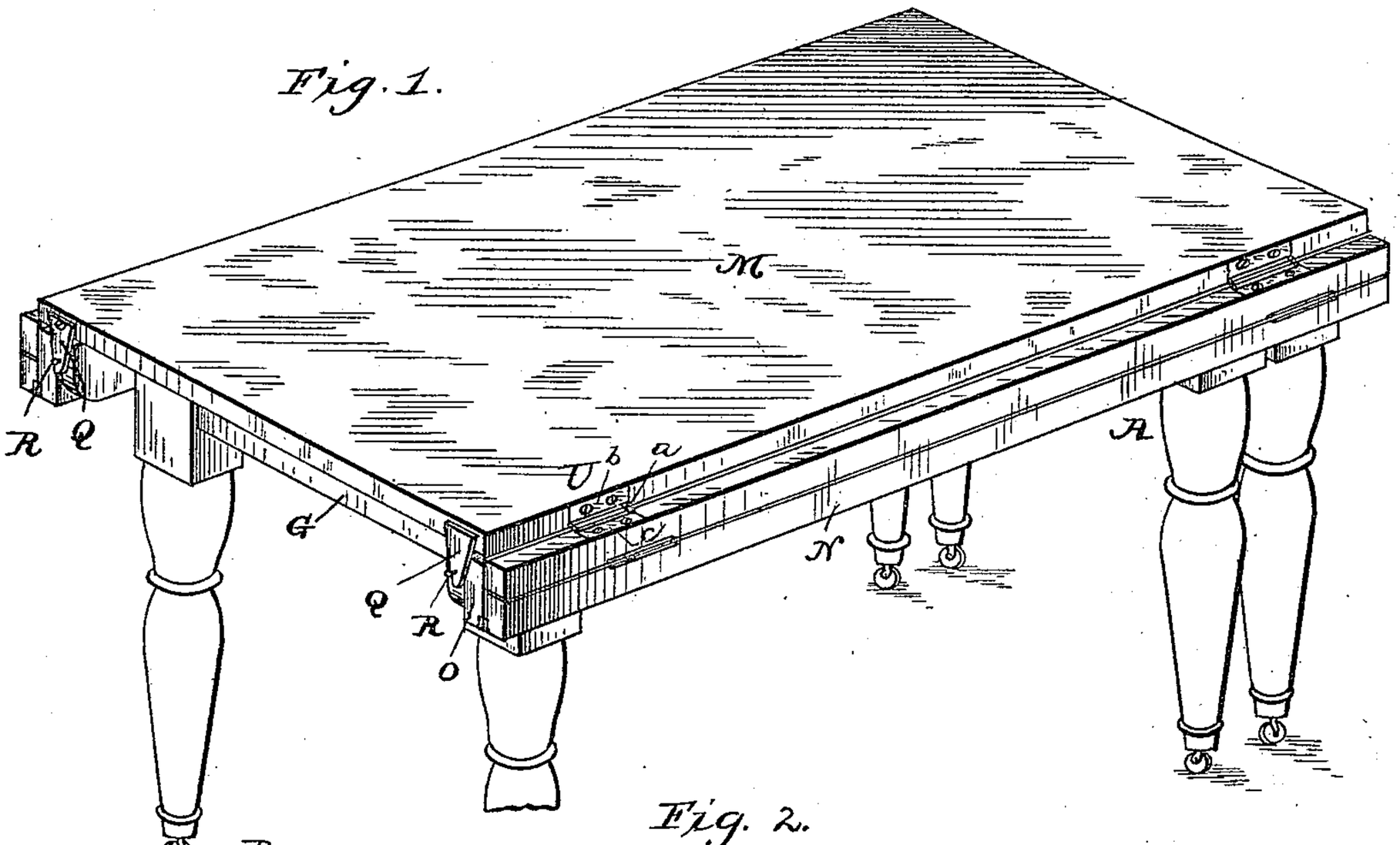

Fig. 2.

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(No Model.) 2 Sheets—Sheet 2.

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Fig. 3.

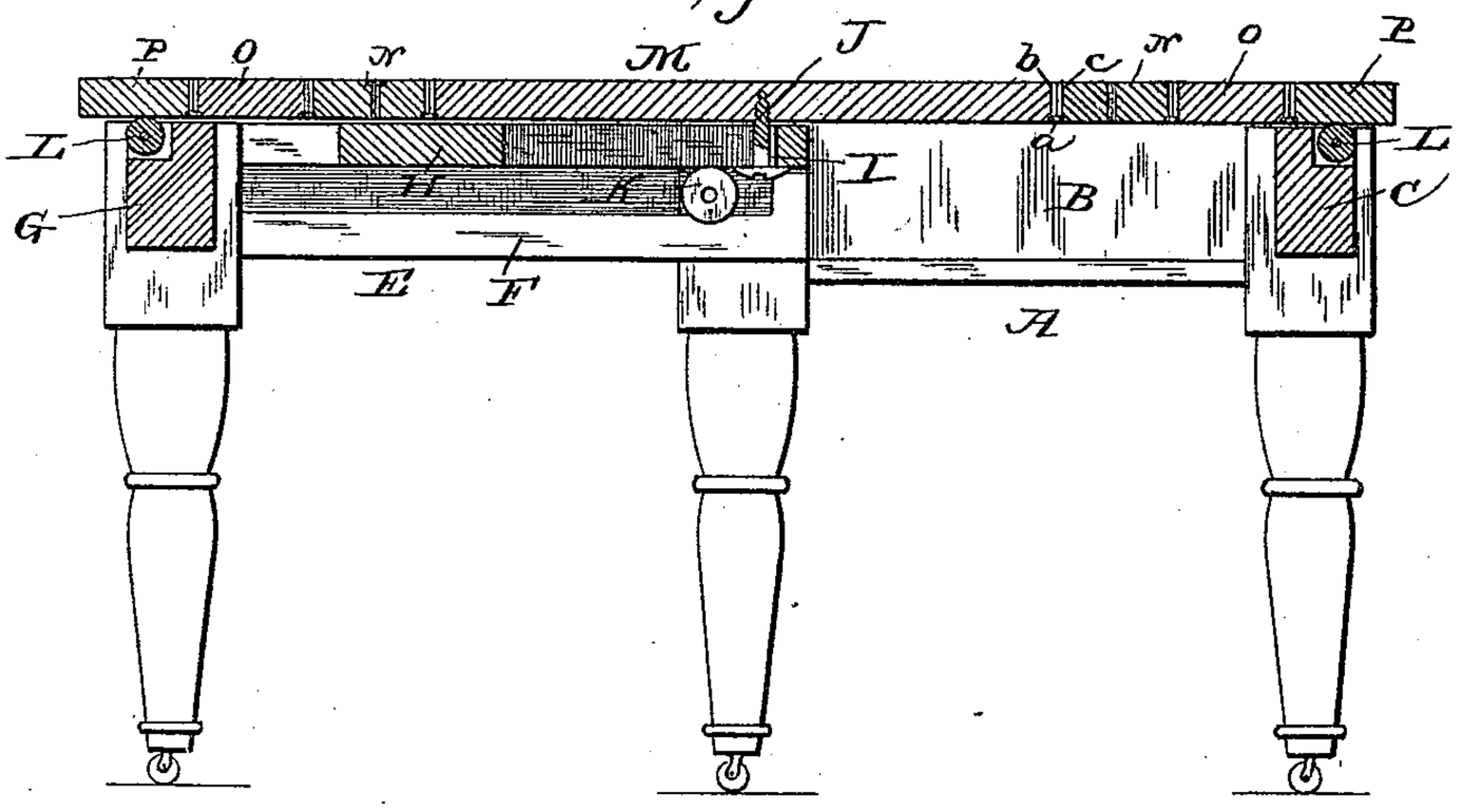


Fig. 4.

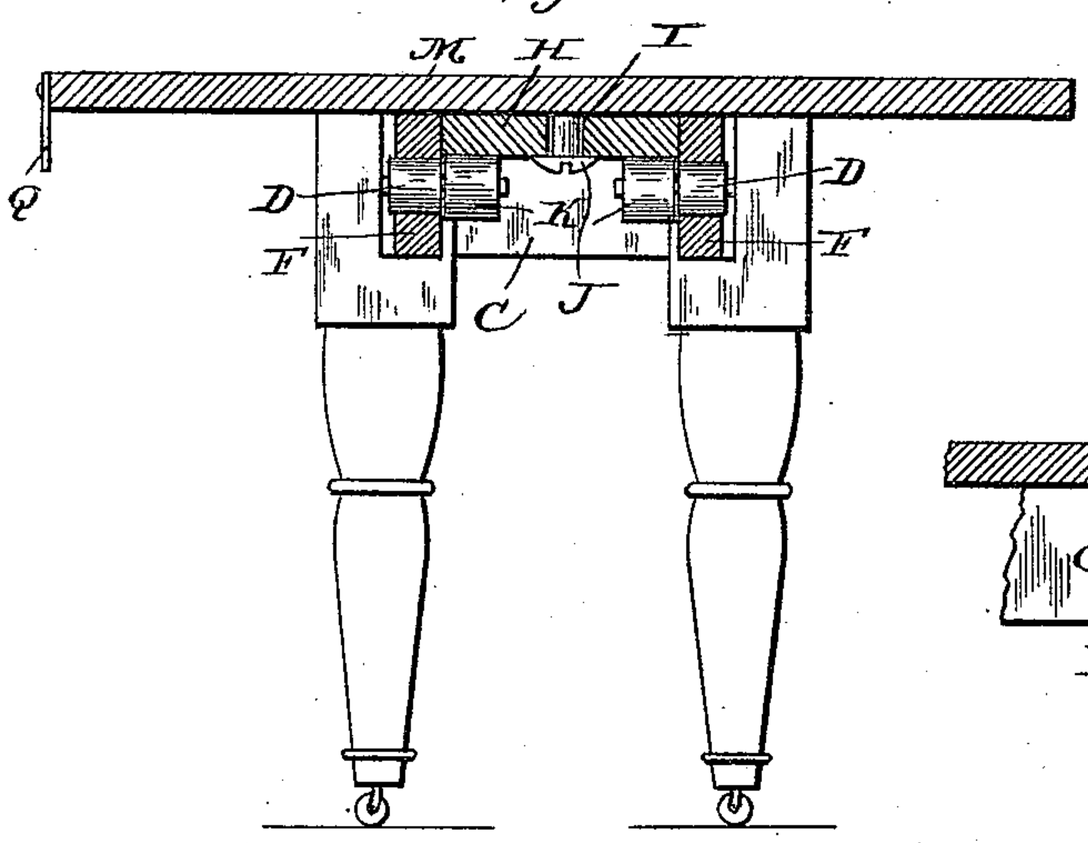


Fig. 6.

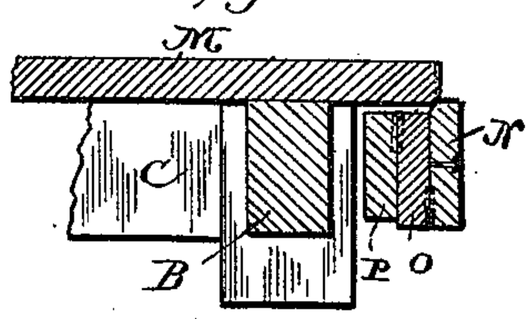
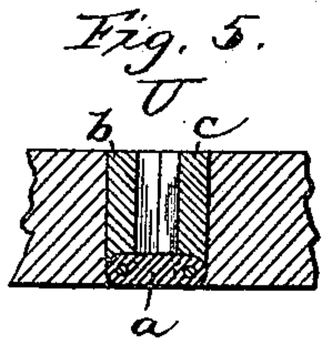


Fig. 5.



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WILLIAM HODGE, OF EASTON, PENNSYLVANIA.

EXTENSION-TABLE.

SPECIFICATION forming part of Letters Patent No. 440,356, dated November 11, 1890.

Application filed February 28, 1890. Serial No. 342,113. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HODGE, a citizen of the United States, residing at Easton, in the county of Northampton and State of Pennsylvania, have invented a new and useful Extension-Table, of which the following is a specification.

My invention relates to improvements in extension-tables; and it consists in certain novel features hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view showing the device folded, Fig. 2 is a bottom plan view showing it extended. Fig. 3 is a longitudinal vertical section showing it extended. Fig. 4 is a transverse vertical section. Fig. 5 is a detail sectional view on an enlarged scale of one of the hinges. Fig. 6 is a detail section representing one end of the table and showing that end in a folded position.

In the drawings, A designates the main supporting-frame, consisting of the side bars B and the end bar C and suitable supporting-legs. At the inner open end of the frame A, I provide the friction-rollers D, and the extension-frame E is mounted on the said rollers. This extension-frame consists of the longitudinally-slotted side bars F, the end bar G connecting the same, and suitable supporting-legs. The rollers D pass through the slots of the side bars F, and the said bars travel on said rollers. A supporting-plate H is secured between the upper side bars of the extension-frame, and is provided with a longitudinal slot I, through which the pivot-pin J, secured centrally in the main leaf of the table, passes. In order to further facilitate the easy movement of the frames upon each other I provide the rollers K K, which are mounted on the ends of the axles of the rollers D, and bear against the under side of the plate H so as to aid in supporting the same and allow it to move easily and readily. The end bars C G are provided in their upper sides with the anti-friction rollers L, which bear against the under side of the table-leaves and thereby allow the table-leaves to move easily and smoothly over the frames when the table is being extended.

The table-top is composed of a central main leaf M and a series of smaller leaves N O P, &c., hinged to the side edges of the central leaf and to each other. The pivot-pin J is secured to the under side of the central leaf and allows the table-top to be swung around in a horizontal plane on the frames, and at the same time permits the said frames to be moved from each other so as to support the table-top when it is extended. When the table is not extended, the leaves N O P, or more, are folded together under the projecting side edges of the central leaf M, and are supported in this position by the spring-catches Q, secured on the end edges of the central leaf and engaging-pins R in the ends of the outer leaves. The central leaf is further provided on its under side near its opposite ends with the depending studs or pins S, which are adapted to engage the recesses T in the corners of the supporting-frames, so as to limit the circular movement of the main leaf and prevent the folding side leaves from being brought against the sides of the supporting-frames so as to bend or otherwise injure the hinges or other parts.

The inner side leaf N is preferably divided longitudinally and provided with hinges U between its parts, so that the remaining side leaves can be turned over onto the top of the main leaf M when desired.

The hinges are composed of three leaves *a b c*, as shown, the side leaves *b c* being pivotally secured to the opposite side edges of the central leaf *a*. The side leaves are secured in suitable recesses in the adjacent edges of the table-leaves, so that by reason of the peculiar construction of the hinge the leaves can be folded flatly against each other, or swung either up or down, and when the table is extended the hinges will be flush with the upper side of the table.

The normal position of the table is that shown in Fig. 1. When it is desired to extend the table, the leaves O P are unfolded and turned on the hinges U, so as to be thrown on top of main leaf M, and the table-top is then swung around upon the pivot until it reaches a position at right angles to its former position, after which the supporting-frames are drawn out so as to assume the position shown in Fig. 2.

When it is desired to fold the table, the supporting-frames are pushed together, and the table-top then swung toward its original po-

sition until the studs S engage the recesses in the supporting-frame, after which the side leaves are folded together, as clearly shown. After the side leaves have been folded together the catches Q are engaged over the studs R and the leaves thereby supported out of the way.

It will be observed that I have provided a very simple table, which when extended will provide a large supporting-surface and when folded will occupy but very little room. The table can be quickly extended or folded, and is so constructed as to be free of any inconvenience attending the use of the detachable leaves heretofore employed. By the use of the rollers shown and described the friction between the contacting parts is reduced to a minimum, so that the said parts can move easily and readily upon each other. The slotted constructed of the plate H permits the same to be moved endwise, so as to extend the frames to the degree necessary to support the table when unfolded.

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

1. The combination of the sliding supporting-frames, having recesses in the upper portions of their legs, and the table-top pivoted upon the supporting-frames and having depending studs adapted to engage said recesses, as set forth.

2. The combination of the supporting-frames A E, the frame E sliding on the frame A, the plate H, secured to the frame E and having a longitudinal slot I, and the table-top having a pivot-pin engaging the said slot, as set forth.

3. The combination of the sliding supporting-frames, the central leaf pivoted on the said frame, the side leaves hinged to the central leaf and to each other and provided with the studs R on the outer leaves, and the spring-catches secured to the central leaf and adapted to engage said studs, as specified.

4. The combination, with the supporting-frames A E, the latter having longitudinally-slotted side bars F and supporting-plate H, of the pins carried by the side bars of the frame A, rollers D thereon engaging the slots in the bars F, and end rollers K thereon bearing against the lower face of the supporting-plate, substantially as described.

5. In an extension-table, the sliding frames A E, the plate H, secured to the frame E and having slot I, the table-top M, having pivot J fitted in the said slot, the said frame E having longitudinally-slotted side bars F, and the rollers D, carried by the frame A and sliding in the slots of frame E, as set forth.

6. In an extension-table, the sliding frames A E, the plate H, secured to the frame E and having slot I, the table-top M, having pivot J fitted in the said slot, the said frame E having longitudinally-slotted side bars F, the rollers D, carried by the frame A and sliding in the slots of frame E, and the end rollers K, mounted on the same journals as the rollers D and engaging the under side of the plate H, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM HODGE.

Witnesses:
W. H. ARMSTRONG,
JAMES S. DOWNS.