Jan. 21, 1941. T. BALZANO ET AL 2,229,320

TABLE LEAF SLIDE

Filed Jan. 24, 1940 3 Sheets-Sheet 1

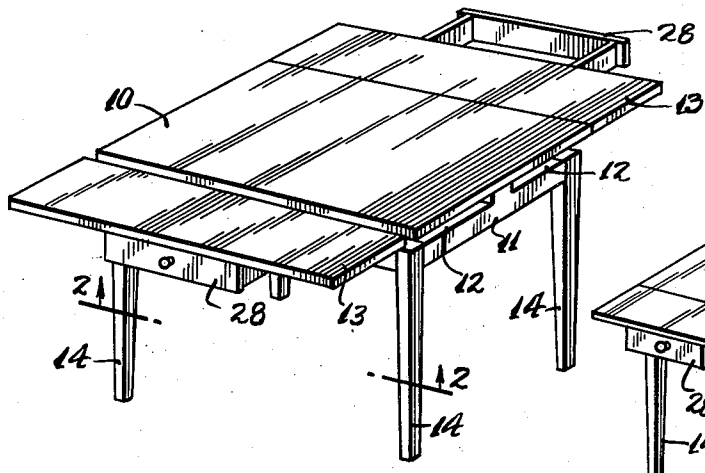


Fig. 1.

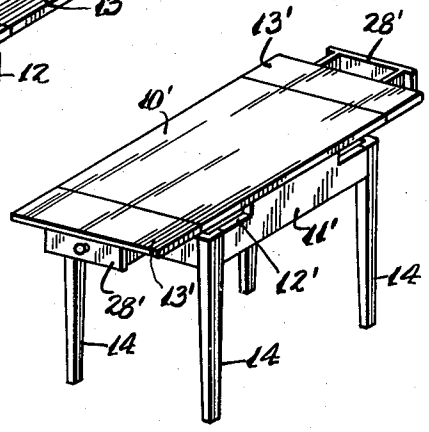


Fig. 1a.

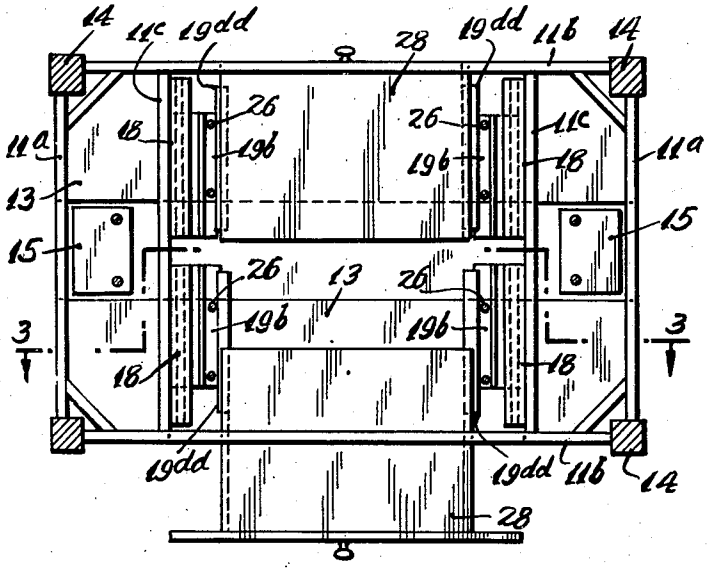


Fig. 2.

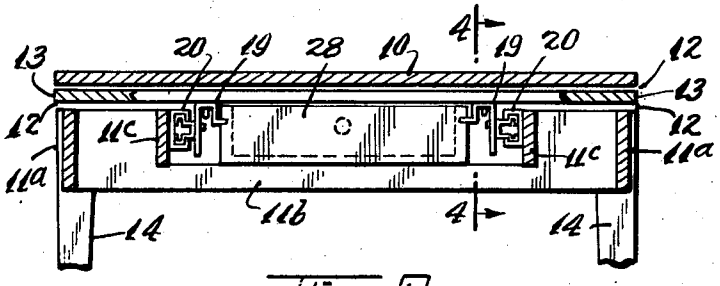


Fig. 3.

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TABLE LEAF SLIDE

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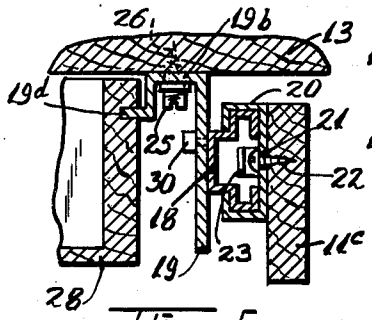


Fig. 5.

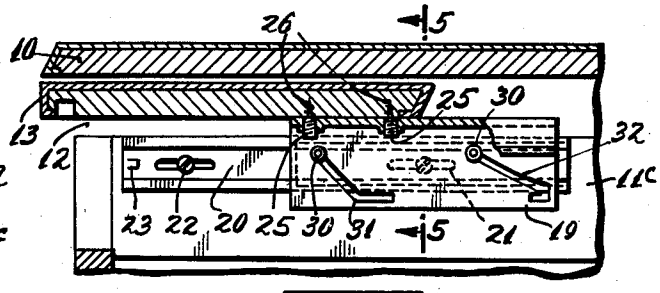


Fig. 4.

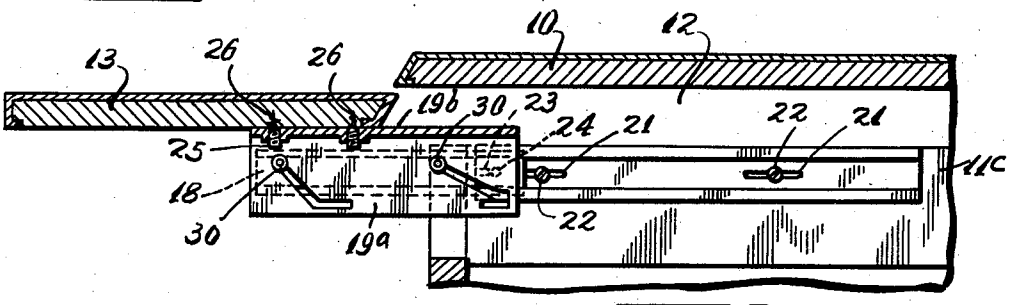


Fig. 6.

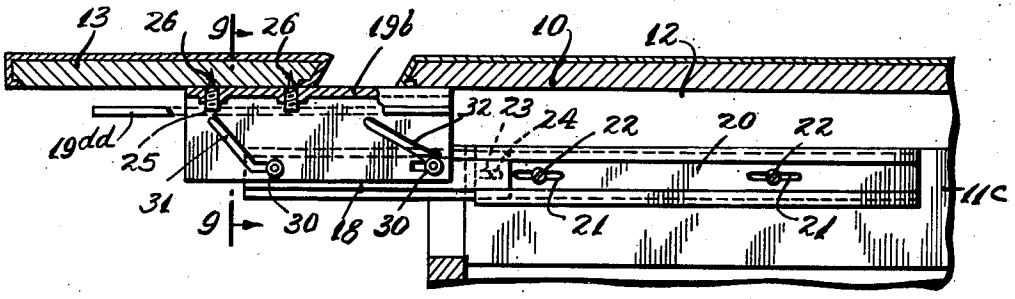


Fig. 7.

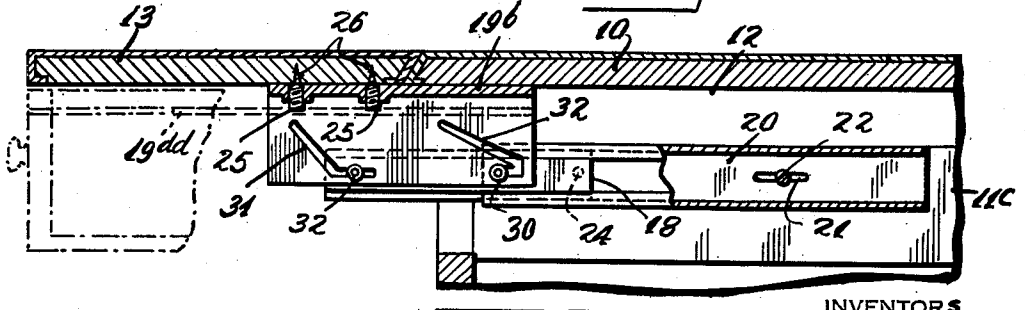


Fig. 8.

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TABLE LEAF SLIDE

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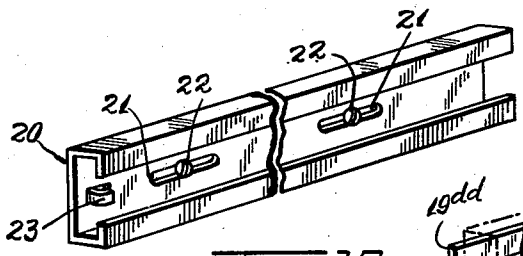


Fig. 10.

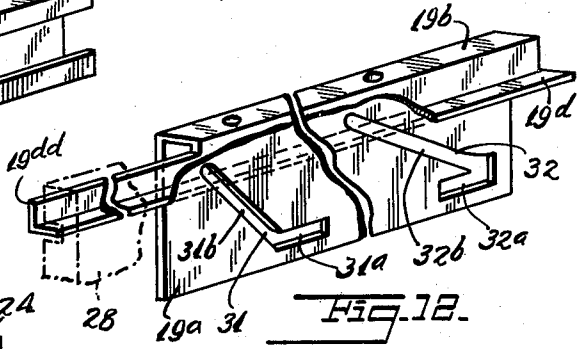


Fig. 12.

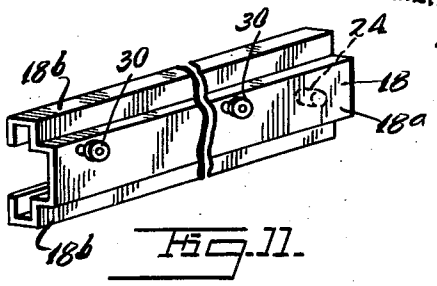


Fig. 11.

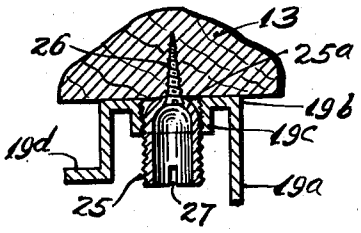


Fig. 13.

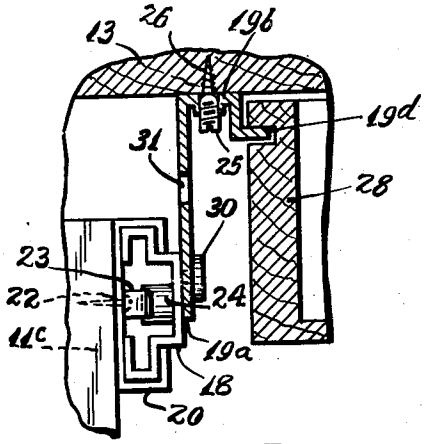


Fig. 9.

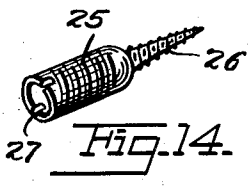


Fig. 14.

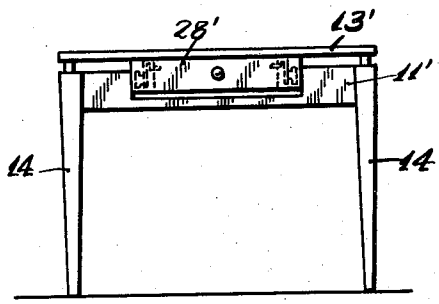


Fig. 16.

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UNITED STATES PATENT OFFICE

2,229,320

TABLE LEAF SLIDE

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New York, N. Y.

Application January 24, 1940, Serial No. 315,290

2 Claims. (Cl. 311—58)

This invention relates to new and useful improvements in tables.

The invention has for an object the construction of a table which is characterized by a table top, a frame supporting the table top and having recesses in the sides, or in the ends, into which a table top leaf or leaves may repose in a position parallel to and adjacently beneath the table top, and a novel arrangement for supporting the table top leaf or leaves in a manner so that they may be extended and elevated to have their top faces in the same plane with the top face of the table top, and for supporting a table drawer at the free edge of the extendable leaf for the convenience of the housewife and to cover the operating mechanism.

More specifically the invention contemplates characterizing the supporting means for each table top leaf by pairs of parallel slides slidably mounted on the frame of the table beneath the table top leaf, and pairs of parallel members adjacent said slides and attached to and supporting the table top leaf, and a novel cooperative means connecting the adjacent slides and members together for making the members movable forwards and upwards relative to the slides and latchable in the said raised position.

Still further the invention contemplates a novel means for holding the table top leaf in various elevated positions on the members so that it is possible to obtain an extra fine adjustment to make the top face of the table top leaf absolutely flush with the top face of the table top.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a perspective view of a table constructed in accordance with this invention.

Fig. 2 is a horizontal sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a fragmentary transverse vertical sectional view taken on the line 4—4 of Fig. 3.

Fig. 5 is a fragmentary vertical sectional view taken on the line 5—5 of Fig. 4.

Fig. 6 is a fragmentary sectional view similar to Fig. 4 but showing the table top leaf extended.

Fig. 7 is a fragmentary sectional view similar to Fig. 6 but showing the table top leaf in its raised position.

Fig. 8 is another view similar to Fig. 7 but illustrating the table top leaf pushed rearwards adjacent the edge of the table top with the top faces of these parts flush with each other.

Fig. 9 is a fragmentary vertical sectional view as though taken on the line 9—9 of Fig. 7 but illustrating the table top leaf in a partially raised position.

Fig. 10 is a perspective view of one of the track elements used for supporting one of the slides of the device.

Fig. 11 is a perspective view of one of the slides per se.

Fig. 12 is a fragmentary perspective view of one of the parallel members used in the construction.

Fig. 13 is a fragmentary enlarged vertical sectional view of a portion of Fig. 5 illustrating particularly a portion of the means for holding the table top leaf in various elevated positions on one of the members.

Fig. 14 is a perspective view of certain parts illustrated in Fig. 13.

Fig. 15 is a perspective view of a table constructed in accordance with another embodiment of this invention.

Fig. 16 is an end elevational view of Fig. 15.

The table, according to this invention, includes a table top 10 which is supported on a frame 11 having recesses 12 into which supplementary table top leaves 13 may repose. The frame 11 is supported by several legs 14 which rest upon the floor. The frame 11 comprises end wall boards 11a, side wall boards 11b, and transverse boards 11c mounted between the side boards 11b. The table top 10 is secured to the frame 11 by several metallic plates 15 attached to the end walls 11a and attached to the bottom face of the table top 10. A novel means is provided for supporting each of the leaves 13 and this means is identical for both of the leaves, and consequently but one of the means will be described in this specification.

A pair of parallel slides 18 are slidably mounted on the boards 11c of the frame 11 and are arranged to slide parallel with and beneath the table top leaf 13. A pair of parallel members 19 are disposed adjacent the slides 18 and are attached to and support the leaf 13. A cooperative means is provided connecting adjacent slides 18 and the members 19 for making the members 19 movable forwards and upwards relative to the slides 18, and to be latchable in raised

positions, as hereinafter more fully described. A novel means is also provided for holding the table top leaf 13 in various elevated positions on the members 19 as hereinafter more fully described.

Each slide 18 is formed from a relatively long strip of material bent so as to have an outwardly projecting central portion 18a and edge flanges 18b. These edge flanges are slidably engaged in a track 20 which is mounted upon the board 11c. The track 20 is formed with slots 21 through which fastening elements 22 pass. These fastening elements comprise screws and engage into the material of the board 11c. The slots 21 permit the tracks 20 to be adjusted forwards or rearwards as may be required for the proper operation of the table top leaf. The forward end of the track 20 is provided with a stop 23, in the nature of a lug stamped from the material of the track and extended inwards. The slide 18 is provided within an inwardly projecting pin 24 (see Fig. 6) which is engageable against the lug 23 to limit forward motion of the slide 18 in relation to the supporting track 20.

Each of the said members 19 is formed from a strip of material bent to have a vertical wall 19a disposed adjacent the outwardly projecting central portion 18a of the slide. The member 19 also has a top wall 19b which is secured in a novel way with the leaf 13. Specifically, the wall 19b is formed with several downwardly extending tubular socket portions 19c which are formed with internal threads. A hollow tubular member 25 threadedly engages each tubular socket 19c. The tubular member 25 has a closed end 25a through which a fastening element, such as the screw 26 passes and said screw 26 threadedly engages in the leaf 13. The arrangement is such that each tubular member 25 is turnably supported by the screw 26. The bottom end of each tubular member 25 is formed with diametrically opposite slots 27 for receiving a screw driver, or other turning tool by which the tubular member 25 may be turned. When the tubular members 25 are turned the leaf 13 will be raised and supported at various elevated positions from the top walls 19b of the members 19.

The top walls 19b of the members 19 continue into angular shaped track side portions 19d. A drawer 28 for the table is supported between the track portions 19d of the said members 19. This drawer may be moved outwards and inwards relative to the leaf 13, and may move along with the leaf as a unit. The tracks 19d have forwardly extending end portions 19dd for facilitating the proper support of the drawer 28. This drawer covers the slide mechanism and is furnished for the convenience of the housewife. The drawers 28 may be extended relative to the leaves 13. This is possible when the leaves are in their extended positions, as well as when they are in their retracted positions.

The cooperative means connecting the adjacent slides 18 and the members 19 for making the members 19 movable forwards and upwards relative to the slides, and latchable in raised positions, include headed studs 30 projecting inwards from the slides 18 and extending through slots 31 and 32 formed in the vertical wall portions 19a of the members 19. The slots 31 are disposed towards the front of the slots 32. Each slot 31 has a rear horizontal portion 31a which connects with a front upwardly extending portion 31b. Each slot 32 has a bottom rearwardly extending portion 32a which connects with an upwardly forwardly extending portion 32b.

In Fig. 15 another embodiment of the invention has been disclosed distinguishing from the prior form merely in the fact that the table top leaves are arranged upon the ends of the table rather than upon the sides. More specifically, the table shown in Fig. 15 includes a table top 10' supported by a frame 11' which is provided with recesses 12' at the ends thereof. Table top leaves 13' are disposable within the recesses 12' and are extendable therefrom. These leaves are supported by mechanism identical to that previously described. Each leaf 13' is also provided with a drawer 28' identical to the arrangement previously described. In other respects this form of the invention is similar to the previous form and similar parts may be identified by like reference numerals.

The operation of the table constructed according to this invention is as follows:

In Fig. 4 the table top leaf 13 is shown in its inoperative position disposed within the recess 12 and located immediately below the table top 10. To extend the leaf 13 it is merely necessary that it be manually gripped and first pulled outwards to the position indicated in Fig. 6. When the leaf 13 is pulled outwards the slides 18 merely move outward on the tracks 20 to positions in which the stop pins 24 of the slides 18 strike the stop lugs 23 of the tracks 20. Then the leaf 13 is pulled forwards and upwards so that the slots 31 and 32 travel forwards on the studs 30. This motion is continued until the forward studs 30 engage into the bottom horizontal projections 31a of the front slots 31 and the rear studs 30 are disposed at the rear ends of the horizontal portions 32a of the rear slots 32. Then the leaf 13 is pushed slightly rearwards so that the rear studs 30 engage into the front ends of the slots 32. This locks the leaf 13 in a raised position. The parts are now as illustrated in Fig. 7. Then the leaf 13 is moved rearwards so that the slides 18 move slightly inwards on the tracks 20 until a position is reached in which the rear edge of the leaf 13 intimately engages the front edge of the table top 10. The parts are now in the position illustrated in Fig. 8 and the leaf is fully extended.

While we have illustrated and described the preferred embodiments of our invention, it is to be understood that we do not limit ourselves to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described our invention, what we claim as new, and desire to secure by United States Letters Patent is:

1. In a table, a table top, a frame supporting said table top and having recesses into which a table top leaf may repose in a position parallel to and adjacently beneath said table top, a table top leaf within said recess, a pair of parallel slides slidably mounted on said frame parallel with and beneath said table top leaf, a pair of parallel members adjacent said slides and attached to and supporting said table top leaf, cooperative means connecting said adjacent slides and members for making said members movable forwards and upwards relative to said slides and be latched in said raised position, and means for holding said table top leaf in various elevated positions on said members, said cooperative means comprising studs projecting from one of the parts and engaging into slots formed in the other of the parts,

said slots including front slots having horizontal portions, the front ends of which connect with forwardly and upwardly inclined portions, and rear slots having horizontal portions the rear ends of which connect with forwardly and upwardly inclined portions.

2. In a table, a table top, a frame supporting said table top and having recesses into which a table top leaf may repose in a position parallel to and adjacently beneath said table top, a table top leaf within said recess, a pair of parallel slides slidably mounted on said frame parallel with and beneath said table top leaf, a pair of parallel members adjacent said slides and attached to and supporting said table top leaf, cooperative means connecting said adjacent slides and members for making said members movable forwards and upwards relative to said slides and be latched in said raised position, and means for holding said table top leaf in various elevated positions on said members, comprising tubular members axially rotatively mounted upon the bottom of the said leaf and having external threads threadedly engaging socket portions upon said members.

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