May 16, 1950 J. PIZZONIA 2,507,931

COMBINATION DESK AND DRAWING TABLE

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Fig. 1.

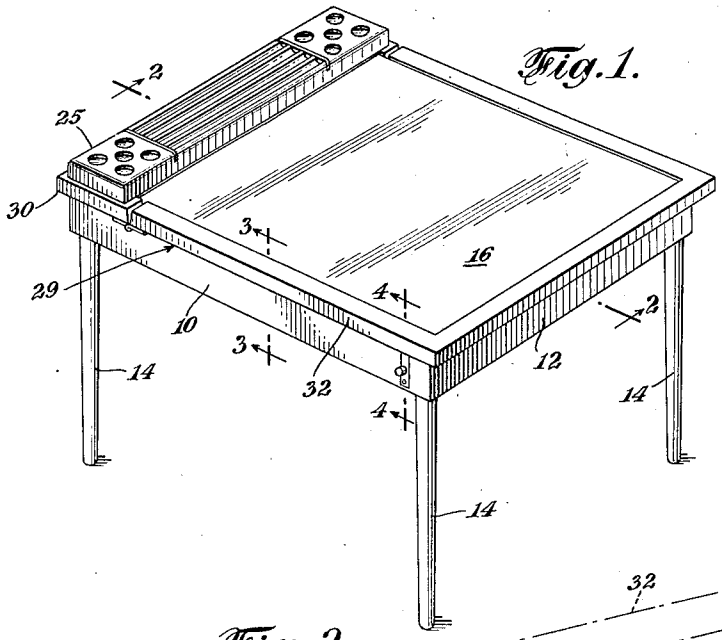


Fig. 3.

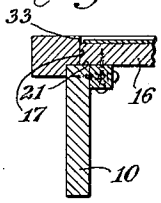


Fig. 4.

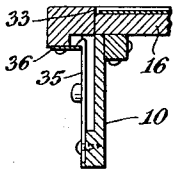


Fig. 2.

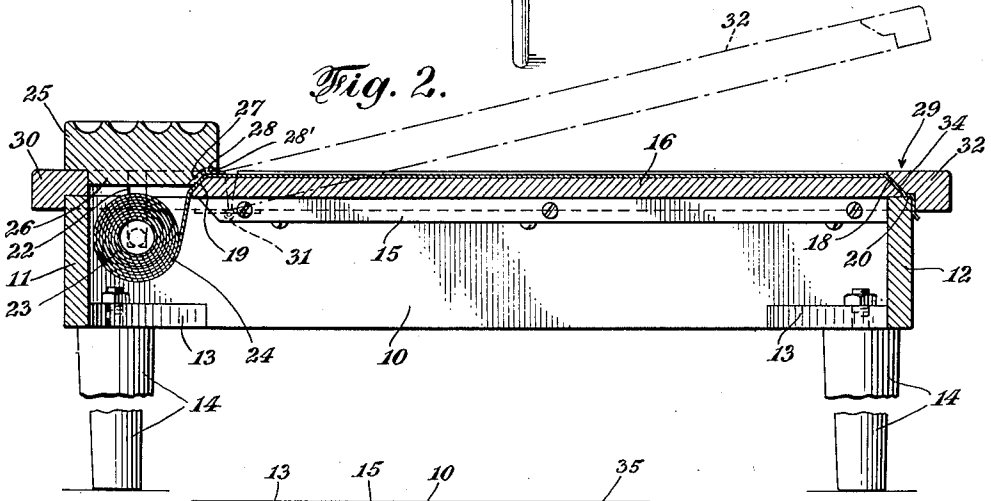
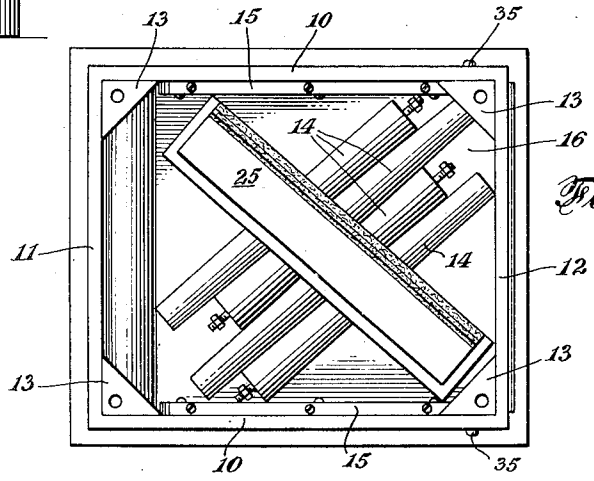


Fig. 5.



INVENTOR
Joseph Pizzonia.
BY
ATTORNEY

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COMBINATION DESK AND DRAWING TABLE

Joseph Pizzonia, Richmond Hill, N. Y.

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2 Claims. (Cl. 45—131)

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This invention relates to drawing tables or desks in general, and particularly to the type employing sheet material in roll form, from which portions of the material may be successively fed over the table top and may be clamped in position for use.

One of the objects of the present invention is to provide a simple, inexpensive and effective device of this type especially designed for use by children, and wherein the construction of the different parts is such as to reduce to a minimum the possibility of injury to the child when operating the table.

Another object of the present invention is to provide a drawing table construction wherein is employed a concealed roll of drawing paper from which portions thereof may be successively fed over the top of the table to be clamped in position, and wherein the means for clamping the paper in place comprises an upper frame arranged above the table frame, and which upper frame may be operated to only a limited extent in upward direction so as to preclude pinching of the child's hand when the upper frame is brought to its paper clamping position against the table frame.

The foregoing and still further objects and advantages of the present invention will become more fully apparent from the ensuing description, in conjunction with the accompanying drawings, wherein:

Fig. 1 is a perspective view of the presently preferred form of the table;

Fig. 2 is an enlarged section taken on line 2—2 of Fig. 1;

Fig. 3 is a typical fragmental section through a longer side of the table as taken on a plane indicated by line 3—3 of Fig. 1;

Fig. 4 is a similar section taken on a plane indicated by line 4—4 in Fig. 1 and depicting the locking arrangement of the device; and

Fig. 5 is a bottom view of the table with its legs and the rear weight member employed therewith nested within the table frame.

Referring now specifically to the figures, numeral 10 denotes the relatively long side members of the table frame, whereas numeral 11 and numeral 12, respectively, indicate the shorter rear and front members thereof. As seen in Figs. 2 and 5 there are provided at the corners of the table frame triangular braces 13, aligned with the bottom edges thereof, and serving for the attachment of table legs 14. Secured to the interior faces of sides 10, and flush with their upper edges are supporting bars 15 extending from

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front member 12 towards rear member 11, but terminating short of the latter. These bars serve as partial supports for table top member 16 which has perpendicular sides 17 and beveled front and rear edges 18 and 19, respectively. Both the side edges as well as the front edge of the top member partly overlay the upper edges of side members 10 and front member 12, respectively, so as to leave free edge margins as indicated at 20 in Fig. 2, and at 21 in Fig. 3.

Rear beveled edge 19 of the top member is distanced from rear table frame member 11, whereby an opening or well in the top rear portion of the table is provided. Within this well, at the interior faces of side members 10 of the table frame are arranged vertical grooves 22, as seen in Fig. 2, which serve for accommodating pintlets of a cylinder 23 about which is wound a roll of sheet material 24 such as drawing paper. The paper is passed over rear beveled edge 19 of top member 16 and is placed over its top surface and is directed over frontal beveled edge 18 of the top member, over margin 20 and over the outer face of table frame front member 12.

Arranged above and fitting into the opening or well at the rear of the table is a weight member 25 provided with an enlarged upper portion having substantially horizontal, peripheral bottom edges adapted to overlay all four horizontal top edge portions of the table well, the enlarged upper weight member portion having a depending extension 26, the front edge of which is provided with a beveled surface 27, corresponding in shape to the beveled rear edge 19 of the top member, and a horizontal extension surface 28, forming one of the four peripheral bottom edges of the enlarged upper portion of the weight member. Beveled edge 27 and its horizontal extension 28 is preferably covered or lined with a felt layer 28', by means of which, due to the weight of member 25, paper sheet 24 is frictionally held at its rear end.

Overlying the upper edges of the table frame is an upper or clamping frame, generally indicated at 29, composed of a fixed rear portion 30, permanently attached to rear member 11 of the table frame and the rear ends of side members 10. Hingedly connected at 31 with fixed portion 30 is a movable portion 32 which may be swung upwardly to but a limited extent as indicated in broken lines in Fig. 2.

The inner faces of the longer sides of this upper frame are perpendicular, as shown in Figs. 3 and 4 at 33, and register with the perpendicular side edges 17 of top member 16. The interior

portion of the movable upper frame member 32 is beveled at 34, which bevel corresponds to front bevel 18 of the top member. The outer peripheral portions of upper frame 29 extend beyond and below the table frame members. Continuing from the vertical side edges and from beveled edge 34 of the front member of the upper frame are horizontal marginal edge portions which correspond to the marginal edge portions 20 and 21, respectively, provided at the side and front members of the table frame.

For the purpose of securing the movable frame member 29 in clamping position against the table frame, there are provided resilient, hook-shaped and depressible detent elements 35, as clearly seen in Fig. 4, which are adapted to engage with their hook-formations plates 36 secured to the bottom faces at the sides of the upper frame. Weight member 25 is preferably provided at its upper surface with differently shaped depressions, as clearly seen from Fig. 1, for the reception of colors, pencils, brushes or other drawing utensils.

Operation

In order to insert a roll of drawing paper into the table, weight member 25 is removed and the pins of cylinder 23 are placed into grooves 22. The free end of the paper is then passed over and somewhat beyond beveled edge 19 of top member 16. Weight member 25 is now replaced to assume its normal position shown in Fig. 2. Then the paper is pulled, while frictionally engaged between beveled edge 19 of top member 16 and felt-lined beveled edge 17 of weight member 25, until a sufficient length of paper is unrolled to extend over and below beveled edge 18 at the front of top member 16. The upper frame member 29 is now lifted, the end of the paper is passed beneath the front of movable frame portion 32, whereupon the latter is pressed downwardly until the front edge of the paper is clamped in position, as shown in Fig. 2. As the upper movable frame portion 32 is thus pressed into place, the paper is stretched between the front and rear beveled edges of top member 16, and detents 35 secure movable frame portion 32 in fixed position against the table frame. It will be observed that the interior vertical sides of the upper frame structure extends somewhat above table top member 16 to serve as side guides for the edges of the paper portion clamped in the table.

In Fig. 5 there is illustrated the table with legs 14 and weight member 25 nested within the table frame. Such arrangement facilitates packing and shipment of the device.

While in the foregoing a specific structure of the present invention is described, changes and improvements may be incorporated therein without departing from the scope of this disclosure as claimed below.

I claim:

1. In a device of the class indicated, a table frame having relatively long sides and shorter front and rear members, a top member having perpendicular side edges and beveled front and rear edges, supports for the top member attached to the long sides of the table frame, the perpendicular edges of the top member partially overlapping the upper surface portions of the long table frame sides, the beveled front edge of the top member partially overlapping the upper surface of the front table frame member, the beveled rear edge of the top member being distanced from the rear table frame member whereby an elongated opening is provided between said member and the rear edge of the top member, oppositely disposed grooves provided in the long table frame members in the vicinity of but spaced from the rear table frame member, a roll of sheet material rotatably and removably suspended in said grooves, the sheet material extending from the roll over the rear beveled edge of the top member, over the upper surface of the latter, over the front beveled edge of the top member and over the front portion of the front table frame member, an upper frame for the table frame composed of a fixed rear portion and a movable front portion hingedly attached to the fixed portion, said upper frame extending partly over and partly below the upper edges of the table frame members, its longer interior side edges being perpendicular and register with the side edges of the top member and extend above the latter, thus serving as side guides for the sheet material, the interior edge of the front end of the upper frame being beveled and register with the beveled front end of the top member, a removable weight member having an enlarged upper portion covering said elongated opening and a depending extension, the latter registering with that opening provided between the rear edge of the top member and rear table frame member and having a lined, beveled edge registering with and exert pressure against the beveled rear edge of the top member.

2. In a device of the class indicated, as per claim 1, releaseable detent means secured to the table frame side members and engaging said upper frame to hold the latter in fixed position relative to the table frame, said detent means comprising resilient hook-shaped elements associated with the table frame and corresponding plates secured to said upper frame for engagement by said elements.

JOSEPH PIZZONIA.

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