

N. W. SCHRUNNER.
 COMBINED TABLE AND DESK.
 APPLICATION FILED JUNE 24, 1909.

943,794.

Patented Dec. 21, 1909.
 3 SHEETS—SHEET 1.

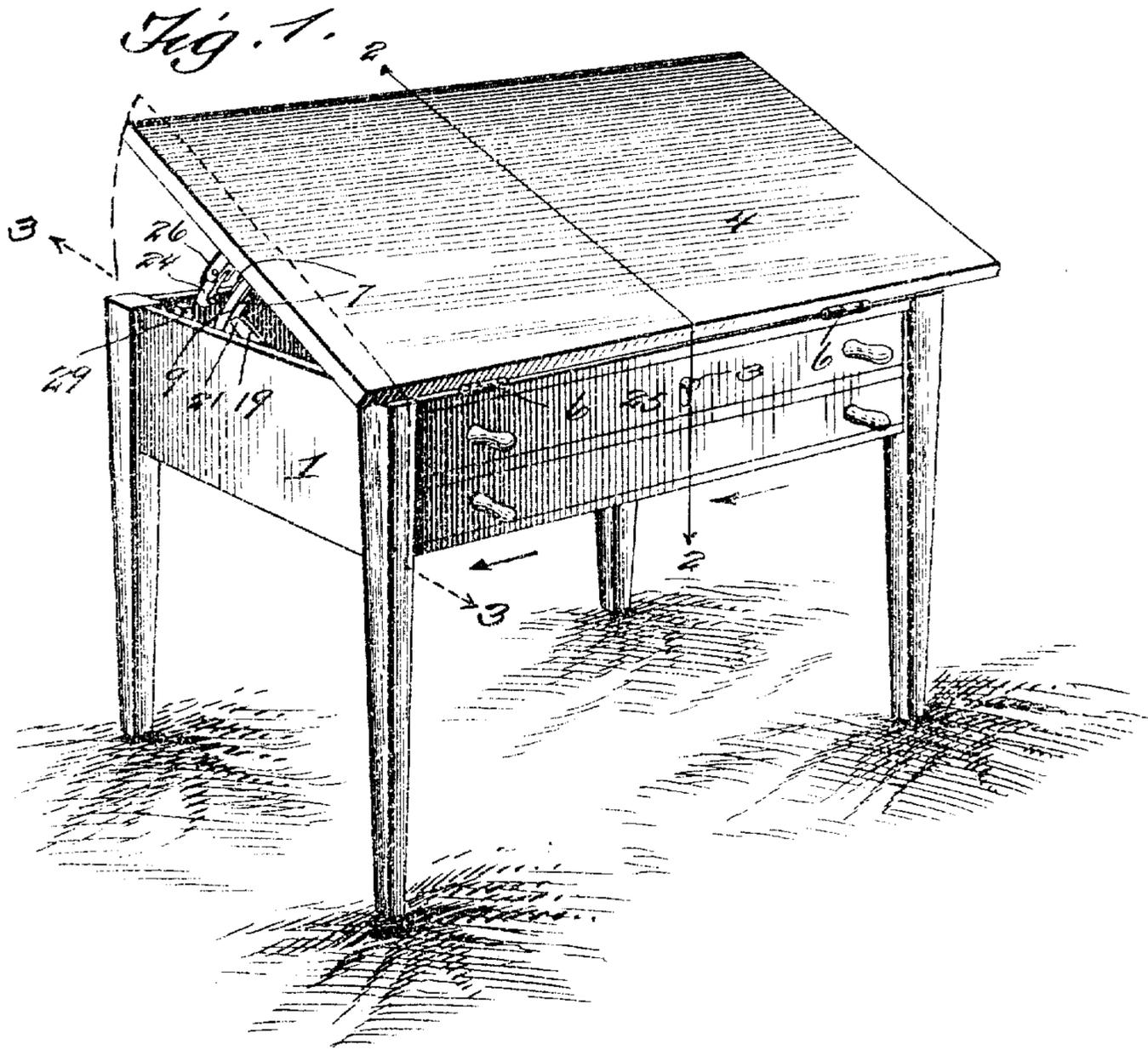
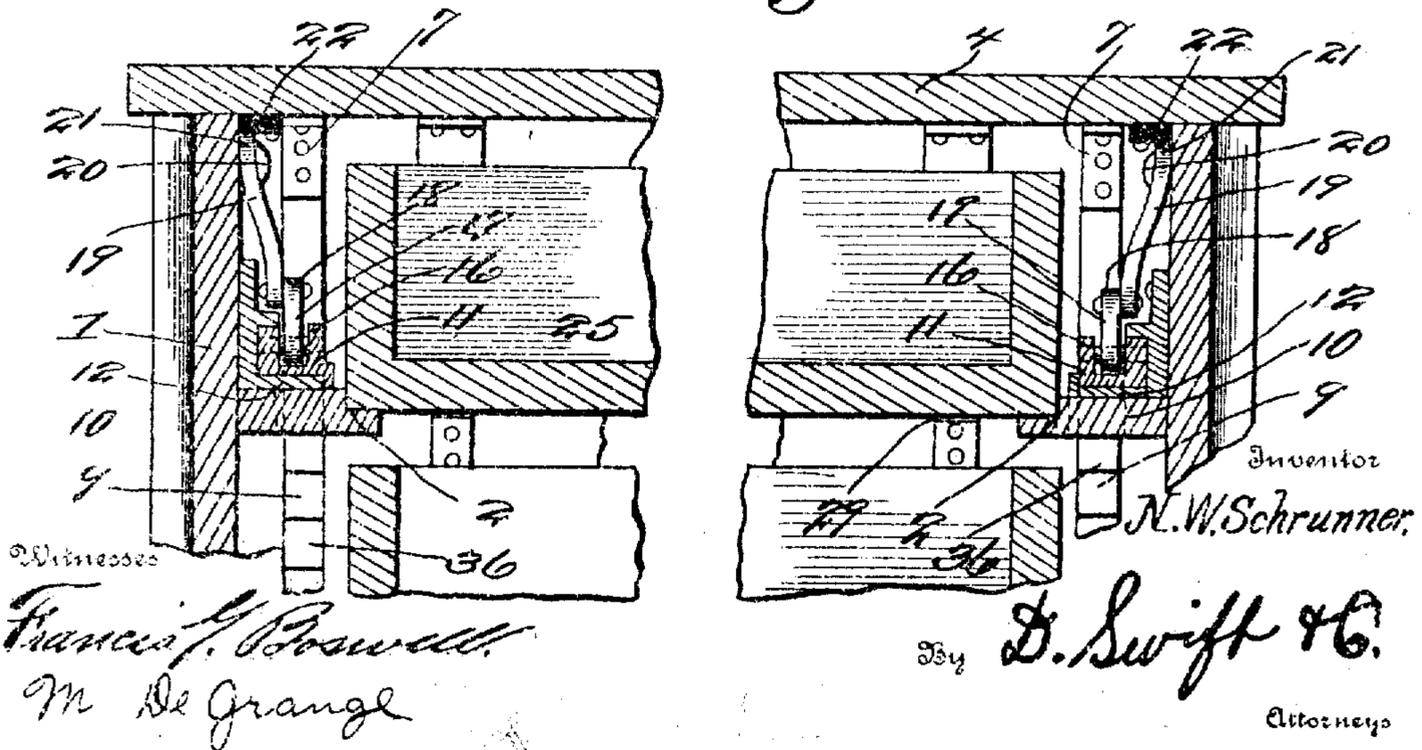


Fig. 4.



N. W. SCHRUNNER.
COMBINED TABLE AND DESK.
APPLICATION FILED JUNE 24, 1909.

943,794.

Patented Dec. 21, 1909.
3 SHEETS—SHEET 2.

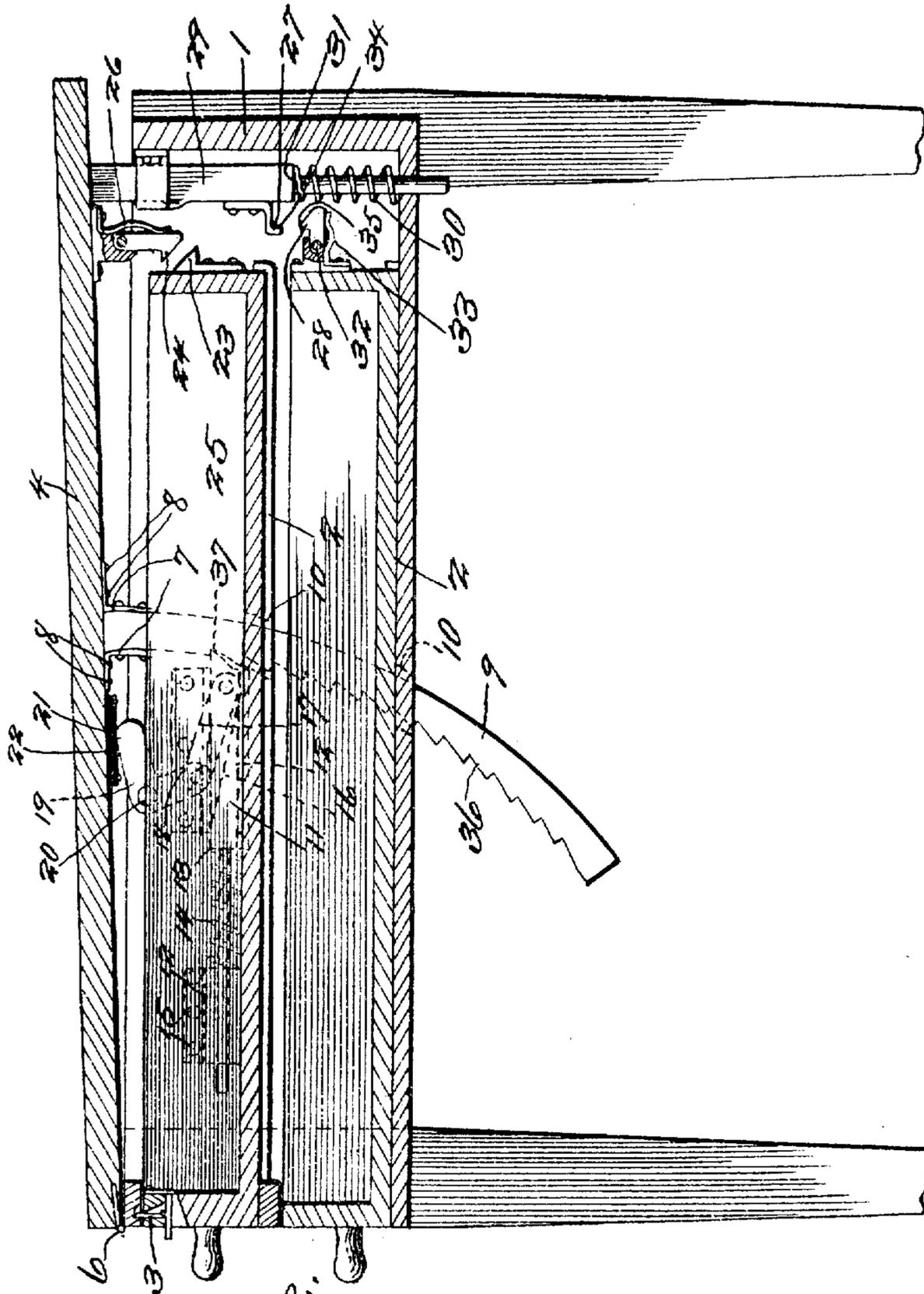


Fig. 2.

Witnesses

Francis J. Boswell
M. De Grange

Inventor

N. W. Schrunner.

By

D. Swift & Co.

Attorneys

N. W. SOHRUNNER,
COMBINED TABLE AND DESK.
APPLICATION FILED JUNE 24, 1909.

Patented Dec. 21, 1909.
3 SHEETS—SHEET 3.

943,794.

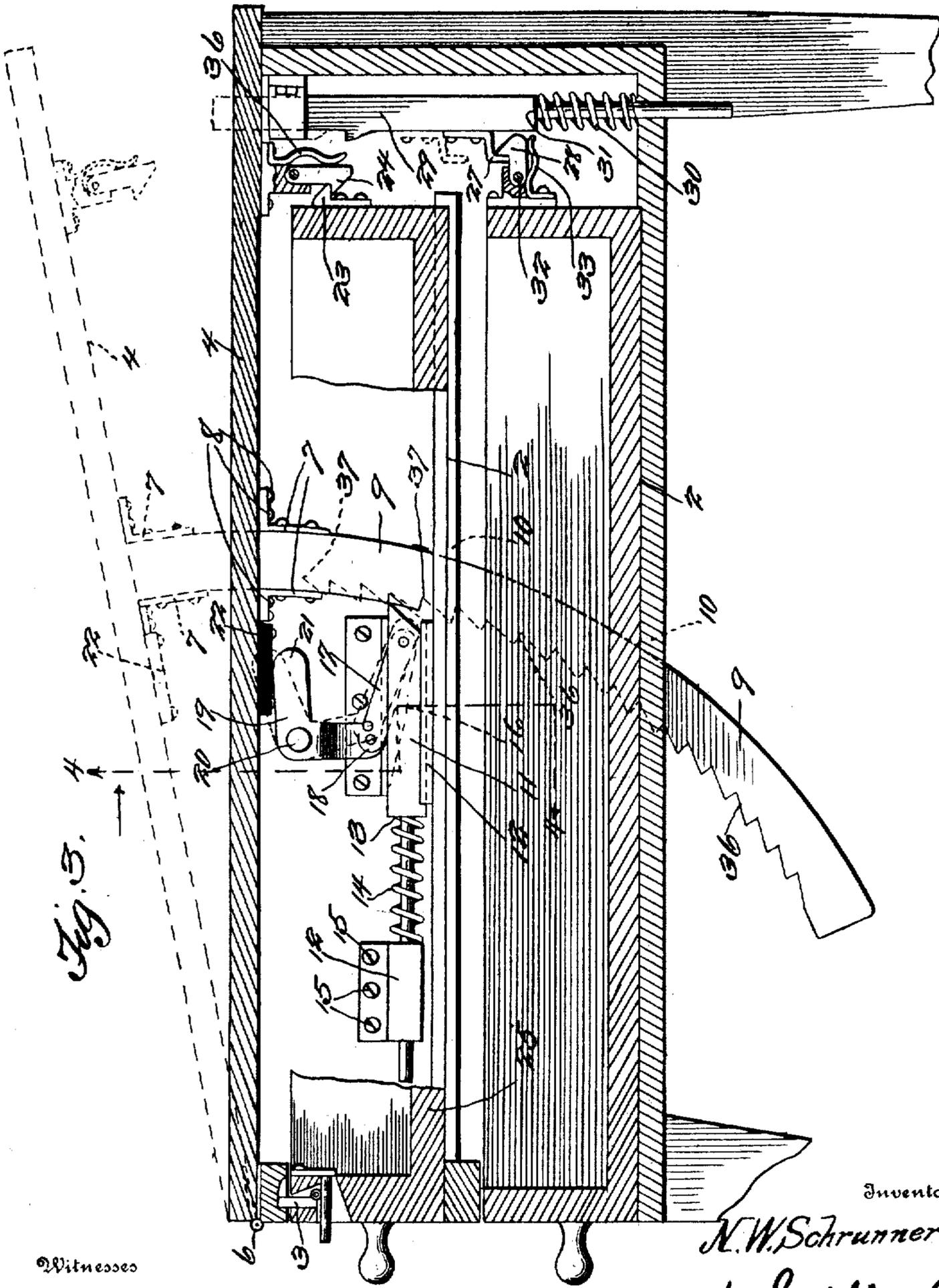


Fig. 3.

Witnesses
Francis J. Boswell.
M. De Grange

Inventor
N. W. Schrunner
D. Swift & Co.
Attorneys

UNITED STATES PATENT OFFICE.

NICKOLOUS W. SCHRUNNER, OF SAN DIEGO, CALIFORNIA.

COMBINED TABLE AND DESK.

943,794.

Specification of Letters Patent. Patented Dec. 21, 1909.

Application filed June 24, 1909. Serial No. 504,152.

To all whom it may concern:

Be it known that I, NICKOLOUS W. SCHRUNNER, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented a new and useful Combined Table and Desk; and I do hereby 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 belongs to the art of household or office furniture, and it particularly pertains to a combination drawing table and writing desk, and the invention in its broadest scope has for its primary object to provide a device of this especial design having a top capable of being angularly disposed, and held in such position by automatically operated means.

The invention has for a further object to produce a device of this character in which one or more drawers are employed, and, when the uppermost drawer is shut and locked and the top is pressed fully downward in engagement with the frame of the device, the remaining drawers below are all securely locked. By this construction, it is clearly evident that it is only necessary to actually lock one drawer. To swing the top of the device angularly, it is first necessary to unlock the top drawer and partially open the same, whereby the said top is allowed to spring open about three-quarters of an inch, thereby releasing the locking mechanism of the lower drawers, after which the top may be disposed upon any desired angle, or it may be disposed in a vertical plane.

This invention comprises further objects and combinations of elements which will be hereinafter more fully described, shown in the accompanying drawings, and the novel features thereof will be pointed out by the appended claims.

The features and elements and the arrangement thereof, for accomplishing the objects of this device or apparatus, may be changed and varied, that is to say, in an actual reduction to practice, the understanding, however, is that the changes and variations accruing from said reduction to practice, are comprehended by the appended claims.

To obtain a full and correct understanding of the details of construction, combinations of features, elements and advantages,

reference is to be had to the hereinafter set forth description and the accompanying drawings in connection therewith, wherein—

Figure 1 is a perspective view of the combination drawing table and writing desk. Fig. 2 is a sectional view through the device upon line 2—2 of Fig. 1, showing the means for locking the drawers and also showing the means for holding the top in various adjusted positions. Fig. 3 is a sectional view upon line 3—3 of Fig. 1 taken slightly to one side of the drawers, in order to clearly disclose in full lines the means for holding the top in various adjusted positions and showing the top closed in full lines and open in dotted lines. Fig. 4 is a sectional view transversely through the table upon line 4—4 of Fig. 3.

Referring to the annexed illustrations, 1 designates the frame of the combination drawing table and writing desk, having suitable guides 2 for one or more drawers, the uppermost drawer of which is provided with the usual lock 3, as shown clearly in the drawings. This frame is provided with the usual table top 4, which is hinged to the frame of the device by means of suitable hinges 6. The under face of the table top, near its forward portion is provided with pairs of metallic angle members 7, which are secured to the table top by means of screws 8. Fastened between these angle members are segment racks 9, one upon each side of the table top. These racks extend through openings 10 of the frame of the device and are engaged by the spring tensioned sliding bolts 11, as clearly shown. These sliding bolts are mounted and guided in casings 12, between which and the shoulders 13 of the bolts, coiled springs 14 are interposed, the function of which is to normally hold the bolts outwardly extended. These casings 12 are secured to the frame of the device by means of suitable screws 15, as shown clearly in the sectional views of the drawings.

Pivoted to and within recesses 16 of the bolts are links 17, to the ends 18 of which the angle levers 19 are pivoted. These angle members are pivoted to the frame of the device by means of screws, bolts or other means 20, and their ends 21 are disposed a slight distance above the upper surface of the frame of the device, when the said bolts are held outward in their normal position, as shown thoroughly in the drawings.

When the top of the device is thoroughly pressed downward, the buffer member 22, of any suitable material, for instance, such as rubber or the like, engages the ends 21 of the angle levers 19, thereby disengaging the bolts from the teeth of the segment racks. To move the lid 4 downwardly, in order to operate the lever 21, that is, when the bolt 11 is engaging the notch 37, the finger of an operator or user of the device may be inserted below the lid or top 4, so as to move the lever 21 upon its pivot, so that the bolt 11 may be withdrawn from engagement with the notch 37, as will be understood clearly from Fig. 2. If it is desired the buffer member 22 may be made slightly thicker, as shown in Fig. 3, than as shown in Fig. 2, so that the lever 21 will begin to move before the bolt 11 is in a position to engage the notch 37, and as soon as the upper portion of the notch 37 arrives at a position to properly receive the bolt 11, the bolt 11 will be free of the notch, so that the lid or top 4 may be thoroughly pushed downwardly, so that the cooperating lugs 23 and 24 will engage, thereby securely locking the lid or top 4 in its fullest downward position. Even though the table top may be pressed thoroughly down and held in such position, by means of the cooperating lugs 23 and 24, the same cannot be released, to allow it to rise the said three-quarters of an inch, as hereinbefore stated, until the uppermost drawer 25, carrying the lug 23, is partially drawn open, sufficient to disengage the lug 23 from the lug 24. The lug 24 is carried by and projects from the under surface of the top, and the engaging portion proper which is the lower free end thereof, is pivoted and spring-retained, as clearly shown, the spring being designated by the numeral 26. If it is so desired, the upper drawer may be thoroughly closed and locked, whether the top and the lower drawers are closed or not, in which case, the said top and lower drawers may be securely closed and locked, without disturbing the upper drawer.

When the top is thoroughly pressed down in contact with the frame of the device to cause the interengagement of the lugs 23 and 24, thereby locking the said top, the said lower drawers are then locked, by the interengagement of the lugs 27 and 28. The lugs 27 are carried by the vertically movable bolts 29, which act against the tension of the springs 30 when depressed. These springs surround contracted portions of the bolts 29 and are interposed between portions of the frame of the device and shoulders 31 of the said bolts 29, as will be clearly evident. The lugs 28 are pivoted to the lower drawers, as at 32, that is to say, to the rear portions of said drawers, and are spring-retained by means of the springs 33, in order that, when the top is thoroughly pressed

down and the upper drawer is also locked and the bolts 29 depressed, the said lugs 28 will spring under the lugs 27, in order to allow the portions 34 and 35 to interengage, as shown clearly in the sectional views of the drawings. When the top is disposed upon an angle, or, in a vertical plane, and it is, at any time, desired to close or lower it, the ends 21 of the angle levers 19 may be manually depressed, thereby releasing the bolts 11 from engagement with the teeth 36 of the segment racks, thereby allowing the top to be closed for about three-quarters of an inch from the upper surface of the frame of the device, after which it is necessary to thoroughly depress the top in order to further lower the same, for the reason that when the top is lowered to about three-quarters of an inch from the surface of the frame, hand pressure must be relieved upon the angle levers 19, which allows the said bolts to spring into the uppermost recess 37 of the said segment racks; therefore, it is absolutely necessary to withdraw the bolts 11 from engagement with these recesses 37 in order to thoroughly close the top.

From the foregoing, the essential features, elements and the operation of the device, together with the simplicity thereof, will be clearly apparent.

Having thus fully described the invention, what is claimed as new and useful is:—

1. In a device as set forth, a frame having a hingedly connected top and provided with one or more drawers, said top having segment racks, spring tensioned bolts to engage the racks, said bolts having links pivoted thereto, angle levers manually depressed for a partial movement of the top when the same is in the act of lowering and when the manual pressure is relieved thereupon, the same is again depressed by further movement of the top in order to disengage the bolts from the said segment racks, the uppermost of the drawers having stationary lugs and spring-retained means carried by the top to engage said stationary lugs to hold the top fully depressed.

2. In a device as set forth, a frame having one or more drawers, a partially spring-actuated top hingedly connected to the frame, the uppermost of the drawers and the top having cooperating devices, whereby, when disengaged by the opening action of the said uppermost of the drawers, the top is allowed to partially rise.

3. In a device as set forth, a frame having one or more drawers, a partially spring-actuated top hingedly connected to the frame, the uppermost of the drawers and the top having cooperating devices, whereby, when disengaged by the opening action of the said uppermost of the drawers, the top is allowed to partially rise, said frame having spring-actuated sliding bolts, links con-

ected thereto, manually depressed angle levers pivoted to the links and segment racks carried by the top to be engaged by the bolts.

5 4. In a device as set forth, a frame having one or more drawers and provided with a hingedly connected top, vertically movable spring-actuated members for partially raising the top, the uppermost of the drawers
10 and the top having cooperating devices whereby, when disengaged by the opening action of the said uppermost of the drawers, the top is allowed to partially rise by the action of the spring-actuated members.

15 5. In a device as set forth, a frame having one or more drawers and provided with a hingedly connected top, vertically movable spring-actuated members for partially raising the top, the uppermost of the drawers
20 and the top having cooperating devices whereby, when disengaged by the opening

action of the said uppermost of the drawers, the top is allowed to partially rise by the action of the spring-actuated members, said frame having horizontally disposed spring-
25 actuated sliding bolts, links connected thereto, angle levers adapted to be manually depressed for a partial movement of the top when the same is in the act of lowering connected to the links and when manual pres-
30 sure is relieved thereupon, the same are again depressed by further movement of the top in order to operate said last-named bolts, segment racks carried by the top to be en-
gaged by the last-named bolts. 35.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

NICKOLOUS W. SCHRUNNER.

Witnesses:

EDWARD W. JONES,
C. R. HAMMOND.