July 10, 1928. 1,676,440

M. G. JACKSON

TRACING TABLE

Filed Feb. 14, 1927 2 Sheets-Sheet 1

Fig. 1.

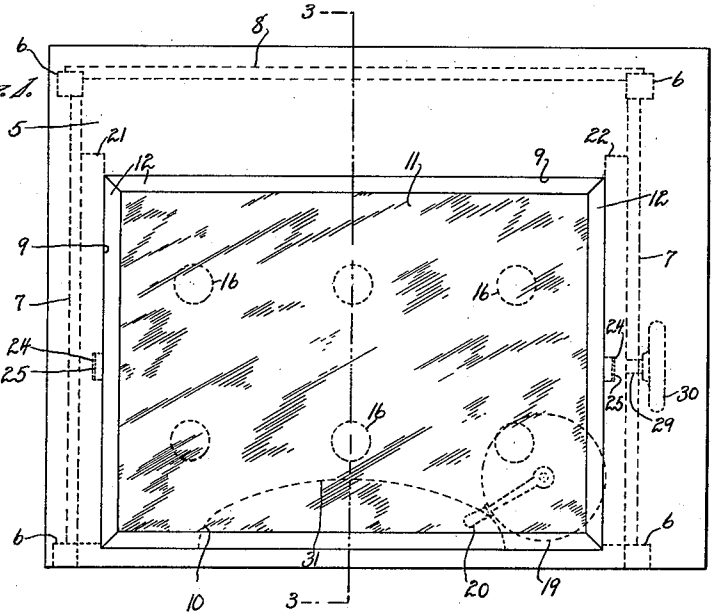
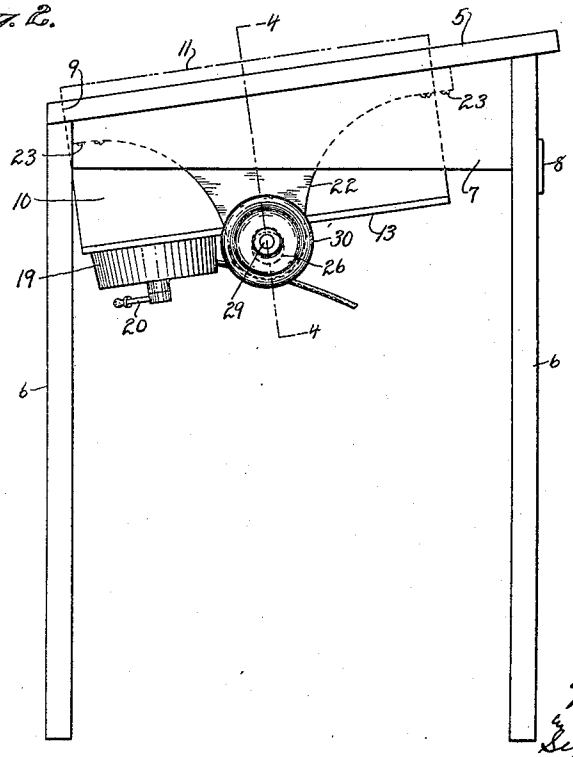


Fig. 2.



Inventor
Mark G. Jackson
by Seymour Earle & Nichols
Attys

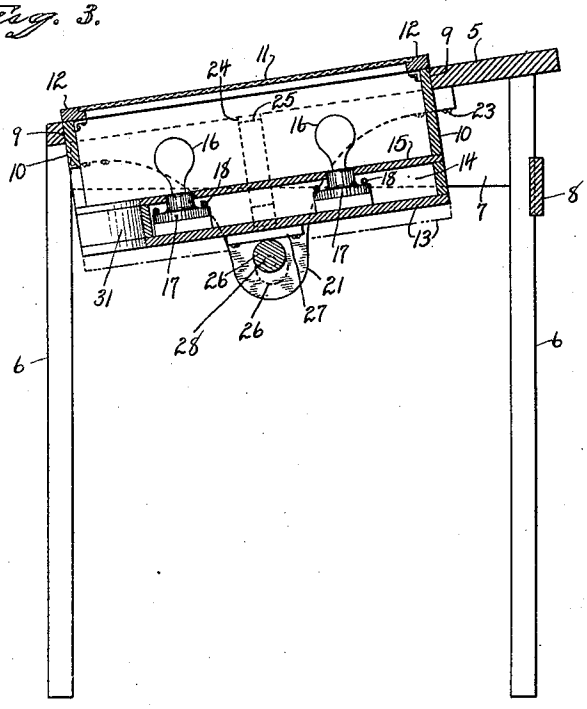
July 10, 1928. 1,676,440

M. G. JACKSON

TRACING TABLE

Filed Feb. 14, 1927 2 Sheets-Sheet 2

Fig. 3.



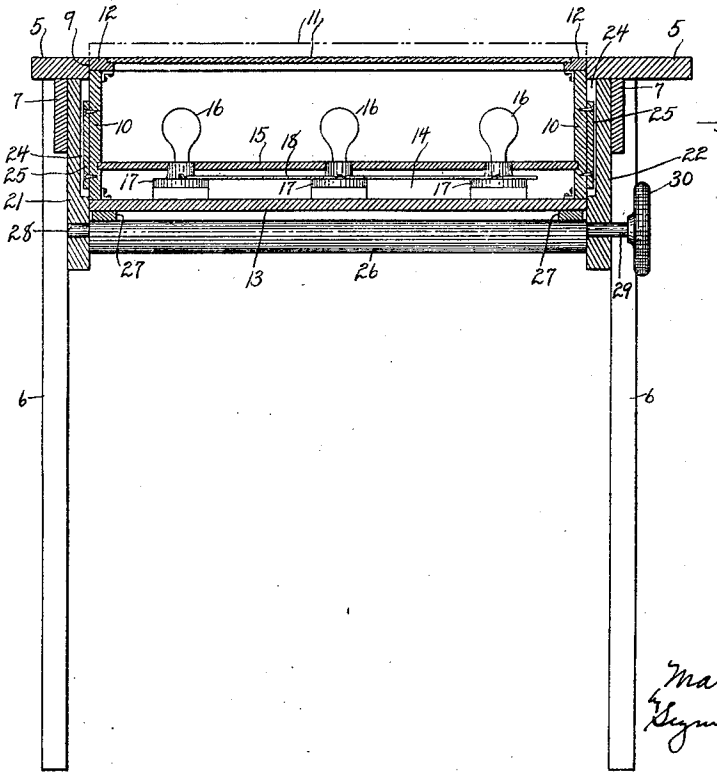


Fig. 4.

Inventor
Mary G. Jackson
Seymour Earle Nichols
Atty

Patented July 10, 1928. 1,676,440

UNITED STATES PATENT OFFICE.

MARY G. JACKSON, OF NEW HAVEN, CONNECTICUT.

TRACING TABLE.

Application filed February 14, 1927. Serial No. 167,933.

This invention relates to improvement in tracing tables, and particularly to tracing tables provided with transluminescent surfaces to facilitate tracing through relatively opaque paper. The object of this invention is to provide a superior tracing table of the class described, constructed with particular reference to being simple and self-contained.

With this object in view, my invention consists in a tracing table having certain details of construction and combinations of parts as will be hereinafter described and particularly recited in the claims.

In the accompanying drawings:

Fig. 1 is a top or plan view of a tracing table constructed in accordance with my invention;

Fig. 2 is a side view thereof;

Fig. 3 is a transverse sectional view on the line 3—3 of Fig. 1; and

Fig. 4 is a longitudinal sectional view on the line 4—4 of Fig. 2.

My improved tracing table, as herein shown, is particularly adapted for draftsmen's use, but has a wide range of use in other fields without departing from my invention.

In carrying out my invention, as shown, I employ a sloping table-top 5 mounted upon four legs 6 which are provided with end-braces 7 and a back-brace 8. The table-top aforesaid is provided with a rectangular opening 9 for the reception of a vertically-movable box-like casing 10 which snugly fits it.

The top of the casing just mentioned is formed by a rectangular sheet of glass 11 or other transparent material mounted in a narrow frame 12 of soft wood, so as to adapt it to readily receive thumbtacks or other fastening means for securing the paper in place over the glass. Parallel with and spaced slightly above the bottom 13 of the casing 10, so as to form a chamber 14, is a partition 15, the top surface of which is painted or otherwise treated to afford a reflecting and diffusing surface for the light emanating from a group of incandescent bulbs 16 which are located above it and beneath the glass 11 aforesaid.

The chamber 14, just described, serves to house the socket 17 from which the bulbs 16 upstand, and the wires 18, which supply them with current under the control of a rheostat 19 of any approved type. This rheostat is secured to the underface of the bottom 13 of the casing and is furnished with the usual control handle 20.

At the opposite ends of the rectangular opening 9 of the table-top 5 I locate two corresponding depending brackets 21 and 22 which are secured to its under surface by screws 23. Each of these brackets is formed on its inner face with a vertical guide-groove 24 for the reception of a guide-rib 25 secured to the opposite ends respectively of the casing 10 aforesaid for the guidance of the latter in its vertical movement, which is effected by means of a cylindrical eccentric bar 26 adapted to engage cleats 27 secured to the bottom 13 and which is provided with offset trunnions 28 and 29 at its opposite ends. These trunnions have bearing in the adjacent brackets 21 and 22 respectively. The trunnion 28 is provided upon its projecting outer end with a hand-wheel 30, by means of which the eccentric bar 26 may be turned so as to raise and lower the casing 10 with the effect of projecting the top faces of the glass 11 and frame 12 above the surface of the table-top 5, as shown in Fig 3, or of retiring them into the plane thereof, as shown in Fig. 4.

Preferably and as shown, the front of the casing 10 is curved inward as at 31 to provide clearance for the knees of the user when seated.

By my invention, therefore, the transluminescent tracing-surface may be raised above the level of the table-top 5, so as to provide a convenient edge for the guidance of a T-square or, on the other hand, when it is desired to employ the entire area of the table-top, the tracing-surface may be lowered so as to lie in the same plane and virtually constitute part of its surface.

Furthermore, by providing variable illumination, I am enabled to regulate the light so as to accommodate its strength to the character of the work to be done, as I have found that the character of the lines to be traced, the color, opacity and thickness of the paper superimposed upon the tracing-surface, are factors which must be taken into account in determining the strength of light required to avoid blurring and to obtain the best results.

I claim:

1. As a new article of manufacture, a tracing table comprising a table-top, supports therefor, a bodily-movable rectangular transluminescent tracing-surface of less length

and breadth than the said table and adapted to set therein, and means for raising the said surface above the table-top and retiring it to the plane thereof.

2. As a new article of manufacture, a tracing table comprising a table-top, supports therefor, an opening formed in the said table-top, a vertically-movable rectangular casing installed in the said opening, a transparent top for the said casing, electric lights mounted in said casing, and means for raising the said transparent top of the casing above the surface of the said table-top and for retiring it to the plane thereof.

3. As a new article of manufacture, a tracing table comprising a table-top, supports therefor, an opening formed in the said table-top, guide-brackets adjacent the opposite ends of the said opening, a vertically-movable rectangular casing installed in the said opening, guides formed on the said casing for engagement with the said guide-brackets, a transparent top for the said casing, electric lights mounted therein, and means for raising the said transparent top of the casing above the surface of the said table-top and for retiring it to the plane thereof.

4. As a new article of manufacture, a tracing table comprising a table-top, supports therefor, an opening formed in the said table-top, a vertically-movable rectangular casing installed in the said opening, a transparent top for the said casing, electric lights mounted therein, an eccentric bar extending from end to end of said table for raising the said transparent top of the casing above the surface of the said table-top and for retiring it to the plane thereof.

In testimony whereof, I have signed this specification.

MARY G. JACKSON.