

E. L. DEARBORN.
 PLATING BOX.
 APPLICATION FILED MAR. 14, 1911.

1,018,607.

Patented Feb. 27, 1912.

Fig 1

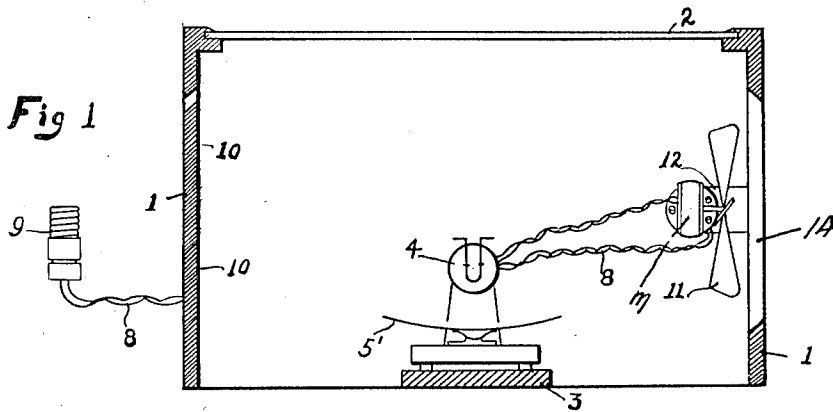


Fig 2

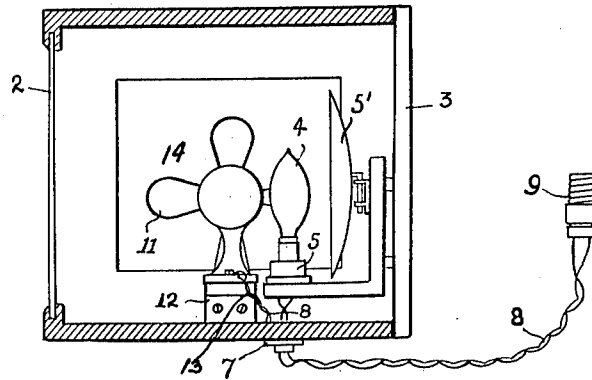
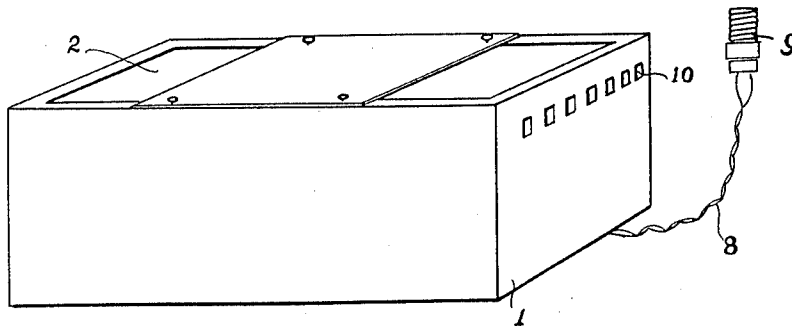


Fig 3



WITNESSES

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EUGENE L. DEARBORN, OF FAIRFIELD, CALIFORNIA.

PLATTING-BOX.

1,018,607.

Specification of Letters Patent.

Patented Feb. 27, 1912.

Application filed March 14, 1911. Serial No. 614,315.

To all whom it may concern:

Be it known that I, EUGENE L. DEARBORN, citizen of the United States, residing at Fairfield, in the county of Solano and State of California, have invented a new and useful Plating-Box, of which the following is a specification in such full and clear terms as will enable those skilled in the art to construct and use the same.

This invention relates to a box for the purpose of transferring drawings from one sheet to another sheet.

It will be understood by those skilled in the art that it frequently becomes necessary to copy plats or other drawings in making reports and the work involves considerable labor if the drawing is made anew by hand. However, if the drawing can be copied upon tracing paper, it can be very quickly and easily made. It is not always convenient to use tracing paper for this purpose and many reports must be upon a much heavier paper, which would be quite impossible to trace through in the ordinary way, but with this invention it is possible to trace through thick sheets of paper quite easily.

In the drawings in which the same numeral of reference is applied to the same portion throughout the several views, Figure 1 is a longitudinal vertical section through the apparatus, Fig. 2 is a transverse vertical section therethrough, and Fig. 3 is a perspective view thereof.

The apparatus comprises a box having vertical sides 1 at the top of which a glass plate 2 is suitably secured, said plate being enough smaller than the box proper to permit thumb-tacks to be pressed into the frame of the box at the edges of the plate to hold papers down thereon. The box is open at the bottom, but has a cross piece 3 connecting the sides upon which an electric lamp 4 is mounted. This lamp is secured to a socket 5 which has electric wires 6 leading therefrom to a socket 7 on the outside of the box. The socket 7 is adapted to be connected by means of a suitable cable 8 with any desired source of electricity. The plug 9 is connected in the ordinary lamp socket. The bar 3 supports a reflector 5 which is of such shape as to scatter the light over the entire under-surface of the glass plate 2.

Since the heat generated from the lamp

is considerable, the glass plate becomes quite warm where the box is used a considerable length of time, and this is unsatisfactory, since it causes the ink being used to dry too rapidly. This defect is remedied by placing ventilation openings 10 in the ends of the box, said openings being so formed as to direct the incoming air against the under side of the glass plate 2.

In a plating box in which a lamp of high candle power is used, the motor *m* is installed, said motor having a fan 11 on its shaft and bracket 12 supporting the motor in place. This motor may be a very small one and may be connected by means of wires 13 with the same circuit which operates the lamp. The gentle current of air thus produced, keeps the box cool and prevents the heat from the lamp from interfering with the operations of the draftsman. The air from the fan is discharged from the box through the opening 14, in the end of the box adjacent the fan.

In operation, the drawing to be copied is placed upon the glass plate 2 and the drawing to be made is placed upon the top of the completed drawing. The lamp is then illuminated, when it is very easy to trace the complete drawing upon the fresh sheet.

Tracings on thick card board can be easily made with this apparatus.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is as follows:

In a tracing apparatus, the combination with a box having a glass top and inlet openings formed therein to direct incoming air against the underside of said glass top and having a discharge opening, a lamp in said box and an electric fan mounted in said box, said fan being adapted to direct air into the box through the inlet openings and to discharge the air through said discharge opening, substantially as described.

In testimony whereof I have hereunto set my hand this 6th day of March A. D. 1911, in the presence of the two subscribed witnesses.

EUGENE L. DEARBORN.

Witnesses:

C. P. GRIFFIN,
L. H. ANDERSON.