April 29, 1930. M. M. HARDING 1,756,289

DRAFTING BOARD

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Fig. 1.

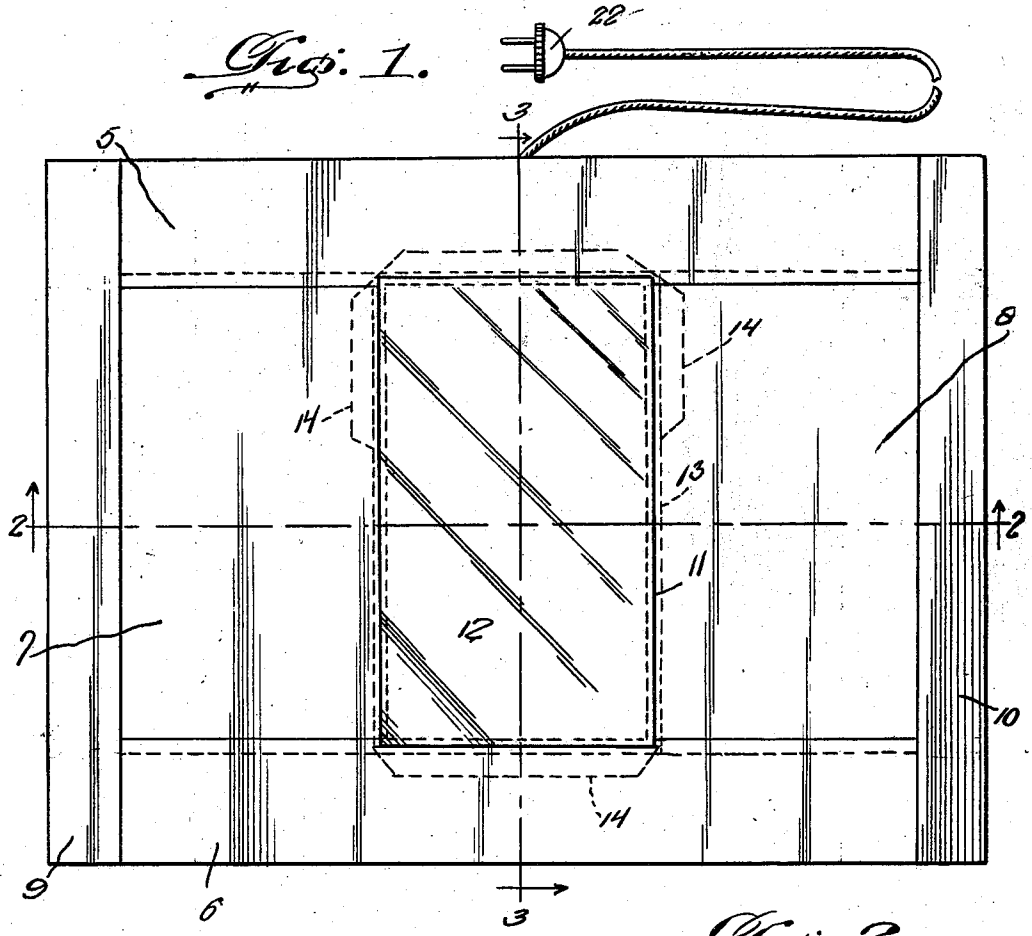



Fig. 2.

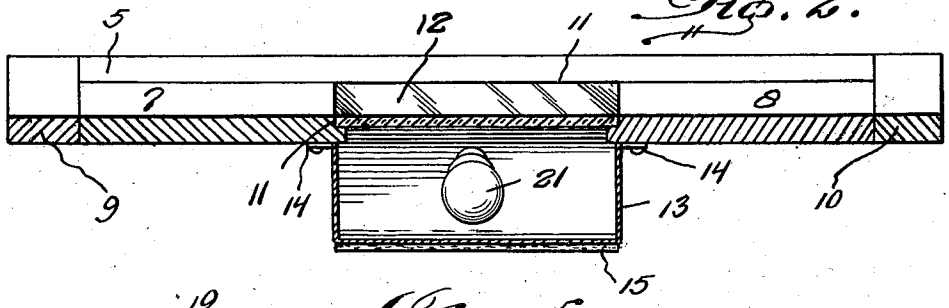
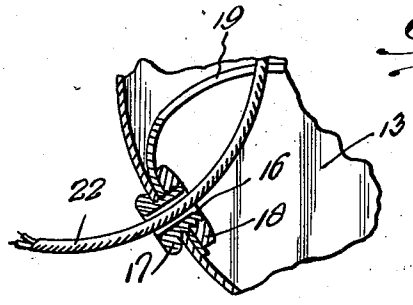



Fig. 5.




Inventor

Milo M. Harding

By J. Stanley Burch

Attorney

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Fig. 3.

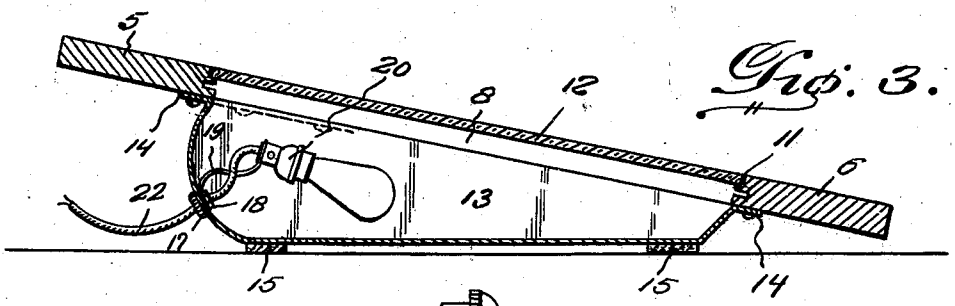
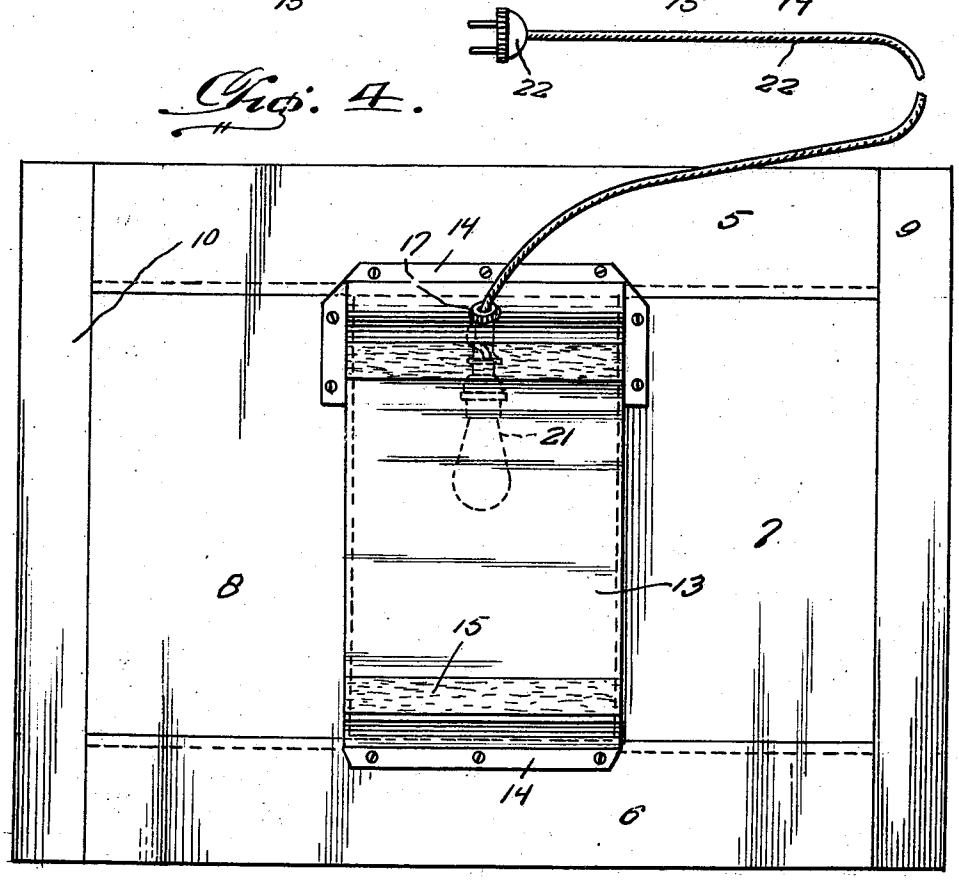



Fig. 4.




Inventor

Milo M. Harding.

By J. Stanley Bunch

Attorney

Patented Apr. 29, 1930 1,756,289

# UNITED STATES PATENT OFFICE

MILO M. HARDING, OF LOS ANGELES, CALIFORNIA

## DRAFTING BOARD

Application filed January 23, 1929. Serial No. 334,469.

This invention relates to drafting boards, and has more particular reference to devices of this kind adapted for use in making either drawings or tracings.

The primary object of the present invention is to provide a drafting board of the above kind which is very simple and durable in construction, and efficient in use.

A more specific object of the invention is to provide a simple and compact portable drafting board of the above kind including a board member having a central opening closed by a glass panel, a hollow open-top sheet metal reflector secured to the underside of said board member beneath the glass panel and adapted to form a base to effectively support the board member on top of a desk or table at a desired inclination, and a source of light mounted in said reflector to illuminate the paper secured over the glass panel of the board member so that a tracing may be easily made.

Other objects will become more apparent as the nature of the invention is better understood, and the same consists of the novel form, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings, and claimed.

In the drawings:

Figure 1 is a top plan view of a drafting board embodying the present invention.

Figure 2 is a transverse vertical section on line 2—2 of Figure 1.

Figure 3 is a longitudinal vertical section on line 3—3 of Figure 1.

Figure 4 is a bottom plan view of the device shown in Figure 1; and

Figure 5 is an enlarged fragmentary section showing the manner of attaching the lamp supporting bracket to the reflector.

Referring more in detail to the drawings, the present drafting board embodies a rectangular board member composed of spaced relatively narrow top and bottom strips 5 and 6, spaced relatively wide side strips 7 and 8 fitted between the opposite ends of the top and bottom strips 5 and 6, and longitudinal end strips 9 and 10 extending across and secured to the outer edges of the side strips 7 and 8 and the end edges of the top and bottom strips 5 and 6 so as to rigidly secure said strips 5, 6, 7 and 8 together and prevent buckling of the board and breaking of the glass panel, to be referred to later. This forms a board member which is transversely elongated and has a central relatively large rectangular opening elongated longitudinally or from top to bottom of the board member. The upper edge portions of the strips 5, 6, 7 and 8 about this opening are rabbeted as at 11 to receive the margin of a frosted glass plate or panel 12 which closes such opening and is set with its upper surface flush with the upper surface of the board member, the panel 12 being preferably set at its edges in cement to firmly hold it in place. The wide side strips 7 and 8 adapt the board member for efficient use in general drawing work with paper sheets of various sizes which may be readily fastened in place by thumb tacks. In this respect, the present device essentially differs from mere tracing boards having a uniformly narrow frame in which is set a glass panel forming substantially the entire paper-supporting surface.

Fastened to the underside of the board member directly under the glass panel 12 is a hollow open-top sheet metal reflector 13 which gradually increases in depth from front to rear and forms a base to support the board member on top of a table or desk at an inclination, as clearly shown in Figure 3. The inner surface of the base 13 may be painted white to provide a reflecting surface, and the ends of the same are preferably flanged as at 14 to receive screws or the like to fasten such base or reflector to the board member, as shown clearly in the several views. Soft strips 15 may be secured on the bottom of the reflector or base 13 to prevent

marring of the finish of the desk or table top.

The rear end of the reflector 13 has a central opening in which is fitted the shank of a tubular bushing 16 having a head 17 on its outer end and a nut 18 threaded on its inner end. A curved strip of stiff sheet metal is provided to form a supporting bracket 19 having a lamp socket 20 secured on one end and formed with an opening at the other end to fit over the shank of the bushing 16, between the nut 18 and the rear wall of the reflector. The nut 18 is tightened to firmly secure the bushing 16 in place and to also firmly mount the bracket 19 in the deeper rear end of the reflector. It is thus apparent that an incandescent electric lamp 21 may be placed in the socket 20 and thereby supported in position to effectively illuminate the portion of a paper sheet lying over the glass panel 12. An attachment cord 22 extends through the bushing 16 into the reflector, the inner ends of the conductor wires of said cord being connected to the terminals of the socket 20, and the outer ends of such wires being connected to the terminals of an attachment plug 22 so that current for the lamp 21 may be taken from a wall or lamp socket of a house wiring system.

To employ the present drafting board in making tracings from sheets of paper or the like, the sheet having the subject to be traced is placed on the board member and over the glass panel, and then a sheet of blank paper or linen is laid over the first sheet to receive the tracing. The sheets are then fastened in place by thumb tacks and the lamp 20 is lighted to illuminate the paper and render the subject to be traced readily discernable so that a copy of the latter may be easily taken. Obviously, the present invention may be used for many forms of copying, tracing, art and drawing work.

Minor changes are contemplated within the scope of the invention as claimed.

What I claim as new is:

1. A drafting board comprising a board member having a central opening, a glass panel set in said opening, a hollow open-top reflector secured to the underside of said board member beneath said panel and gradually increasing in depth from front to rear of the board member to form a base adapted to support said board member at an inclination on a desk or table top the rear of the reflector being curved inwardly for assuring maximum reflection, and a lamp socket mounted in the deeper rear end of said reflector.

2. A drafting board comprising a board member having a central opening, a glass panel set in said opening, a hollow open-top reflector having an inwardly curved portion at the rear secured to the underside of said board member beneath said panel and gradually increasing in depth from front to rear of the board member to form a base adapted to support said board member at an inclination on a desk or table top, and a lamp socket mounted in the deeper rear end of said reflector, a tubular headed bushing piercing the rear wall of said reflector, a bracket carrying said lamp socket, a clamping nut securing the bushing and bracket to the reflector, and an attachment cord for the lamp socket extending through said bushing.

In testimony whereof I affix my signature.

MILO M. HARDING.