Aug. 11, 1931. N. F. LAMBERTY 1,818,630

SKETCHING DEVICE

Filed July 20, 1927

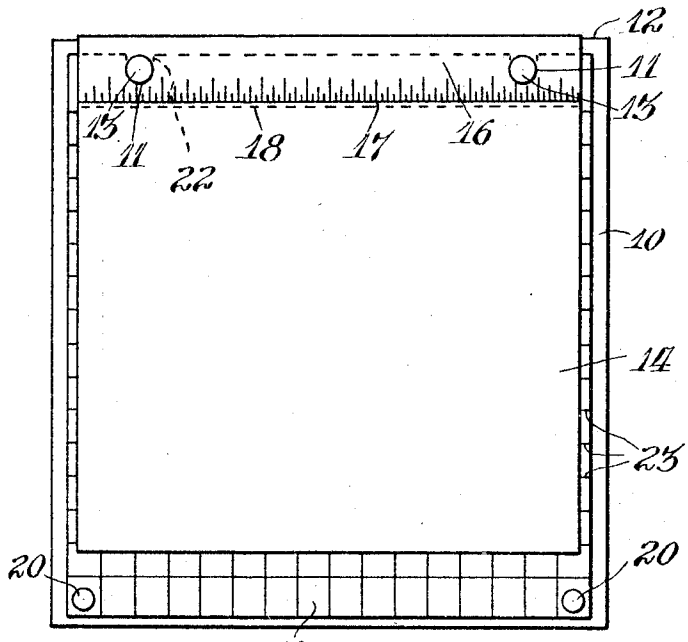


Fig. 1.

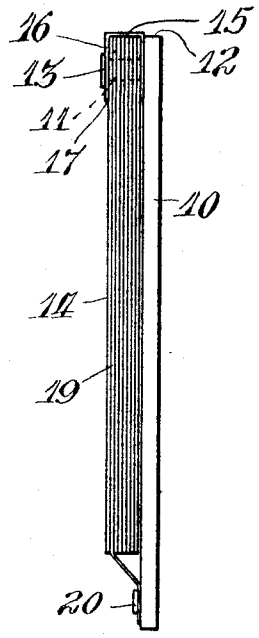


Fig. 2.

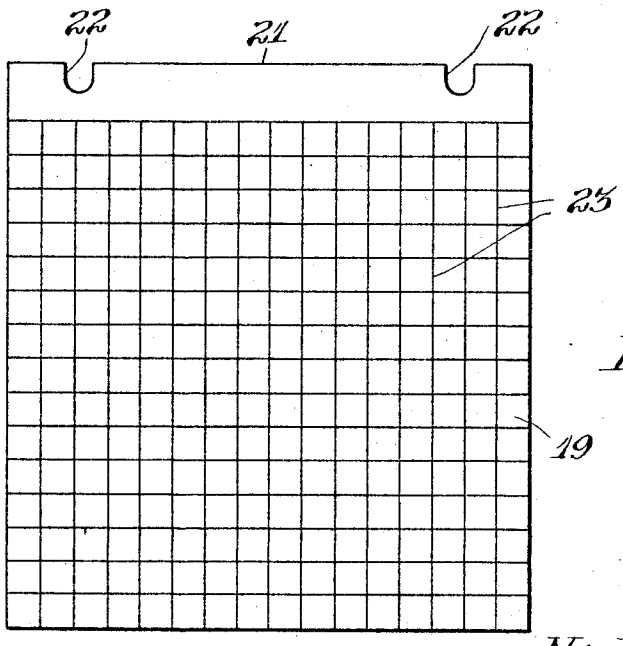


Fig. 3.

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UNITED STATES PATENT OFFICE

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SKETCHING DEVICE

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This invention relates to binders and more particularly to pads enabling proportional sketching thereon with facility, although it may be employed with equal advantages for other purposes.

It contemplates more especially the provision of a plurality of sheets bound in stacked relation in association with a scale which is calibrated to readily enable sketches to be made in the desired proportion without resorting to a ruler or other standard measuring instrument.

Numerous forms of pads have heretofore been proposed; however, these have not proven entirely satisfactory in that their use is restricted to the ordinary purposes which do not require resort to a ruler or like measuring device.

The production of sketches of mechanical contrivances necessitates or at least renders it highly desirable to enable the representation thereof on paper so that the constituent parts thereof may be proportional. It has been found that a ruler does not always prove expedient for such purpose in that sketches are ordinarily made with much rapidity; therefore rulers are cumbersome, inconvenient and not conducive to the desired speed.

With this in view, it is found highly desirable to provide calibrations and guiding means in association with a pad so as to facilitate the proportional reproduction of devices as well as to assist in the preparation thereof with much accuracy without requiring ruled sheets.

One object of the present invention is to simplify the construction and facilitate rapid proportional sketching.

Another object is to provide means in association with a plurality of sheets to facilitate the attachment thereof to a flat surface to permit sketches to be readily inscribed thereon.

Still another object is the provision of a ruled sheet in association with plain sheets arranged in stacked relation, so as to facilitate the disposition thereof beneath the surface sheet to permit the rulings to be viewed therethrough.

A further object is the provision of a plurality of sheets arranged in stacked relation for securance to a member, so as to permit the individual detachment thereof.

A still further object is the provision of a calibrated linear edge in association with a series of superposed sheets disposed in association therewith to enable proportional sketching thereon without a measuring device.

Other objects and advantages will be apparent from the following description of an illustrated embodiment of the present invention:

In the drawings:

Figure 1 is a plan view of a device embodying features of the present invention.

Figure 2 is a side view in elevation of the device disclosed in Figure 1.

Figure 3 is a plan view of a ruled sheet which constitutes an element of the structure illustrated in Figure 1.

The structure selected for illustration comprises a flat member 10 preferably of a rectangular configuration, it being composed of any suitable material such as wood or the like which is capable of sustaining spaced posts 11 in proximity to an edge 12 thereof so as to facilitate the securance of a pad of paper of other suitable writing material thereto. The posts 11 preferably terminate in enlarged heads 13 which are in threaded engagement with the shanks 11 so as to retain the sheets in association with the base 10 in a manner to be described more fully hereinafter.

The pad associated with the board 10 consists, in this instance, of a plurality of plain sheets of writing paper 14 arranged in superposed stacked relation, they being bound along an edge 15 thereof by means of any suitable material such as a fabric strip 16 adhesively or otherwise applied thereto in the usual manner. As shown, the edges 15 of the sheet material 14 are maintained in aligned position by the adhering fabric 16 which terminates along a linear transverse line 17 disposed inwardly of the edges 15. The edge 17 has a suitable scale thereon divided into inches or centimeters and frac-

tions thereof to suit any particular purpose.

Obviously, such an arrangement permits well proportioned sketches to be made on the sheets 14 with a great facility in the preparation thereof without resort to the ordinary ruler or straight edge which can be dispensed with. This is highly desirable in that it requires much time and entails considerable inconvenience to manipulate a ruler, especially where there is no accommodation as a table in the vicinity of the devices which are viewed for the purpose of making sketches thereof. To enable the sheets 14 to be easily detached, a linear perforation defining a line 18 is provided thereon in proximity and parallel to the linear edge 17 so as to enable the removal of the sheets 14 wtih facility independent of the binding.

Obviously, sketching on the surface sheet 14 will doubtless result in undesirable impressions on the sheets disposed thereunder, and in avoidance thereof a sheet 19 of comparatively heavy texture is disposed on the board 10 for securance thereto near the lower edge thereof by means of any suitable fastener such as the thumb tacks 20. The sheet is then disposed between the superposed sheets 14 preferably beneath the surface to preclude indentations occasioned by writing thereon.

As shown, an edge 21 of the sheet 19 is provided with perforations 22 spaced to correspond with the binding posts 11 so as to cooperate therewith to maintain the sheet 19 in position. The sheets 14 are preferably of such thinness and texture that ruled cross-sectional lines 23 inscribed on the sheet 19 may be viewed therethrough. It is to be noted that the cross-sectional lines 23 supplemented by the scale 18 enable sketches to be produced on the sheets 14 in any desired proportions, thereby facilitating accurate proportional reproductions for any desired purpose without manipulation of a ruler.

With the arrangement of parts above described, the pad consisting of the sheets 14 is associated with the flat member 10 so that the apertures therein will receive the posts 11, thereby maintaining the sheets 14 thereon owing to the binding caps 13 constituting a part of the posts 11. The ruled sheet 19 is then disposed between the surface sheet 14 so that the perforations 22 in the edge thereof will cooperate with the posts 11 to prevent relative movement therebetween. The sheets 14 are then capable of use for the purpose described therein, and subsequently thereto can be readily detached without disturbing the binding posts 16 owing to the linear perforations 18 provided therein.

Various changes may be made in the embodiment of the invention herein specifically described without departing from or sacrificing any of the advantages thereof as defined in the appended claims.

What I claim is new and desire to procure by Letters Patent of the United States, is:

A device of the class described comprising a flat base member; spaced binding posts adjacent one side thereof; a pad of superposed sheets bound together at one edge, the opposite edges of said sheets being free, there being perforations through the bound edges to fit over said binding posts; and a ruled sheet of heavy material secured to said base adjacent the free edges of said sheets, insertable between said sheets and notched at its inserted edge to engage said binding posts.

NICHOLAS F. LAMBERTY.