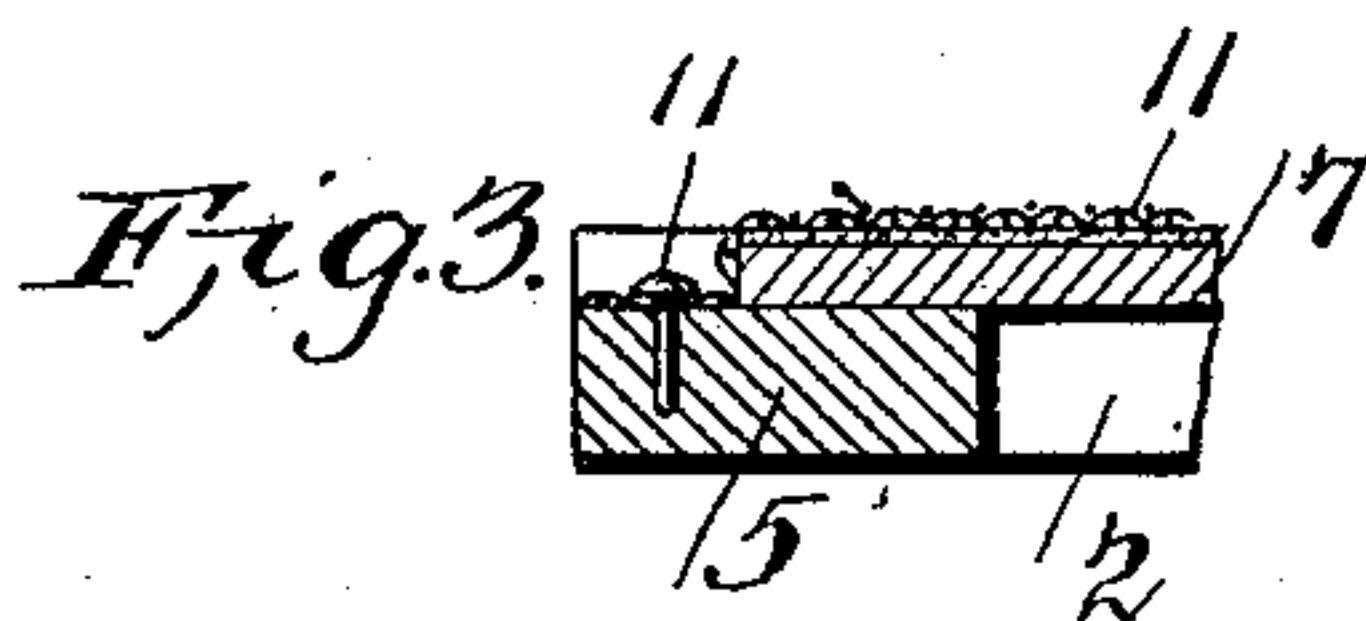
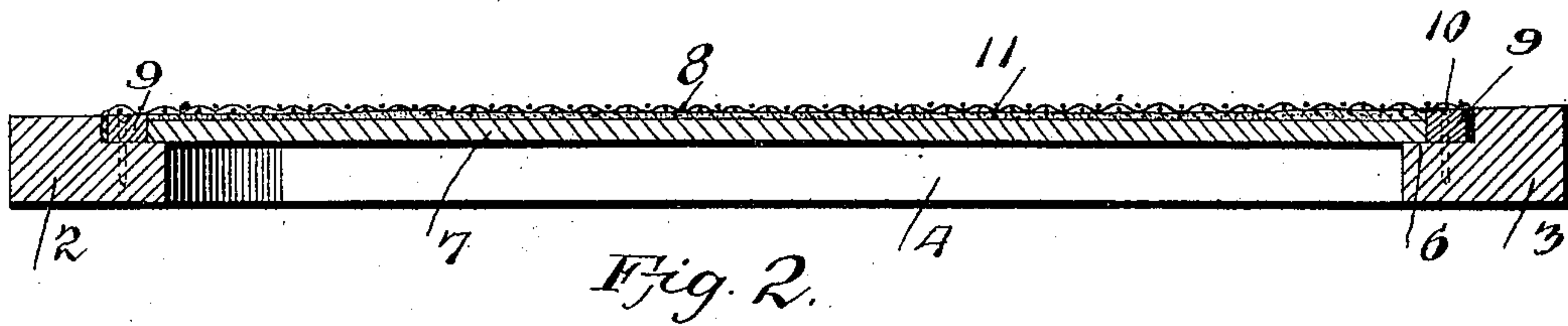
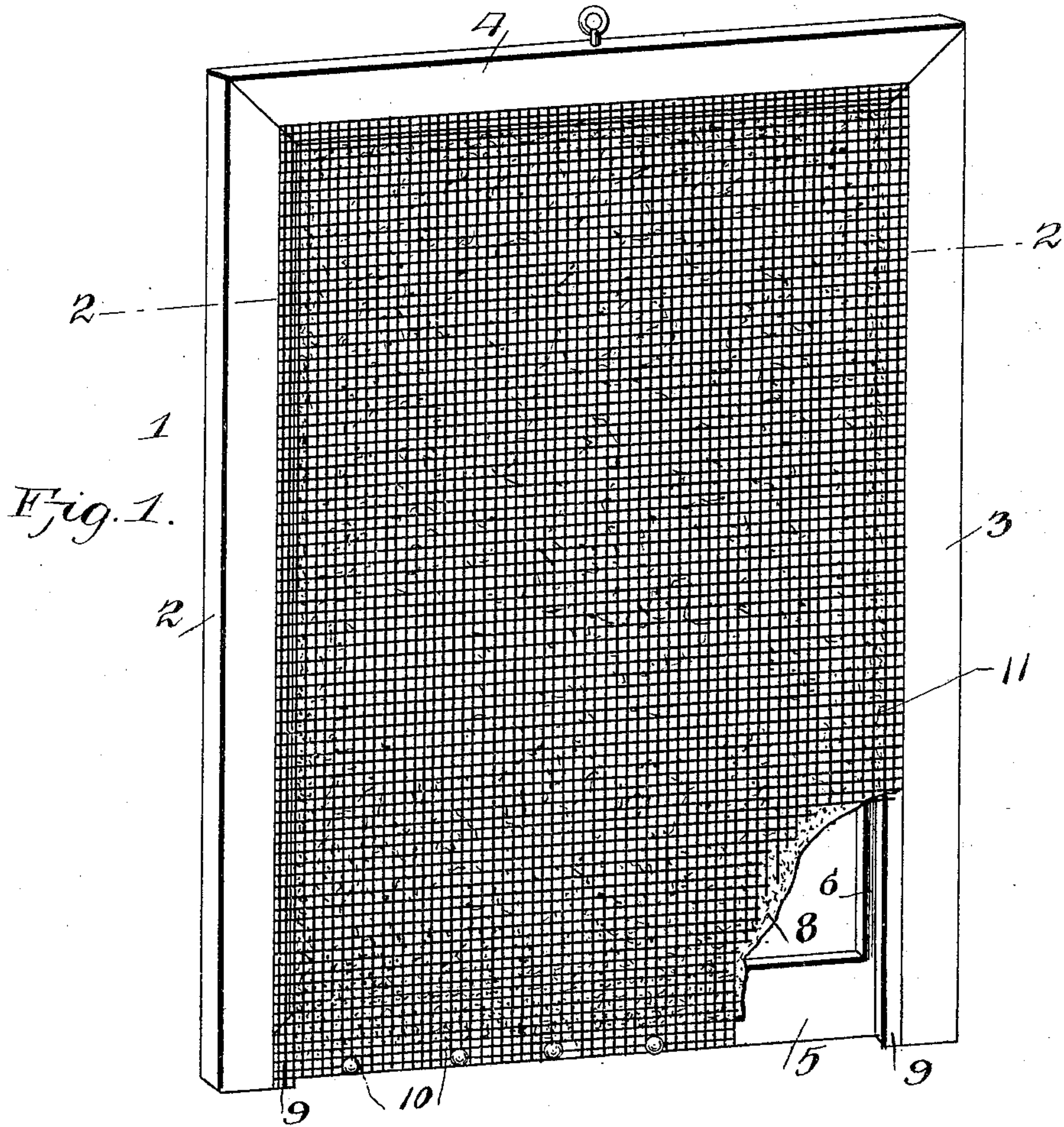


No. 806,738.

PATENTED DEC. 5, 1905.

L. C. EDMUND.
TRACING OR DUPLICATING PAD.
APPLICATION FILED FEB. 1, 1905.



Witnesses
Frank W. Hough

Katharine Allen.

Inventor
L. C. Edmund.

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

LOU CAL. EDMUND, OF NEW YORK, N. Y.

TRACING OR DUPLICATING PAD.

No. 806,738.

Specification of Letters Patent.

Patented Dec. 5, 1905.

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To all whom it may concern:

Be it known that I, LOU CAL. EDMUND, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Tracing or Duplicating Pads, of which the following is a specification.

This invention relates to a tracing or duplicating pad for making impressions in accordance with a desired pattern on paper, leather, wool, cotton, silk, and other materials.

The object of the invention is to provide a simple, cheap, and efficient construction of pad by which patterns may be readily and conveniently marked on various materials and in which provision is made for securing the essential parts in such manner as to permit of their easy application to a supporting-frame and their ready removal therefrom when occasion requires.

With this and other objects in view the invention consists of the features of construction, combination, and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a tracing-pad embodying my invention, a portion being broken away to show the arrangement of the pad proper and screen layer. Fig. 2 is a cross-section of the same, taken on line 2 2 of Fig. 1; and Fig. 3 is a detail section through one end of the frame, showing the manner of securing the free edge of the screen layer.

The numeral 1 in the drawings represents a suitable inclosing and supporting frame, the same being shown in the present instance as being of oblong rectangular form and comprising side pieces 2 and 3 and end pieces 4 and 5, suitably fastened together. The frame, however, may be of any other preferred form adapted for the purpose.

As shown, the side pieces 2 and 3 and the end piece 4 are grooved around their upper inner edges to form a recess 6 around three of the sides of the frame, the fourth side or end piece 5 having its upper surface lying in the plane of the base-wall of the recess to form an entrance thereto, as hereinafter described. Supported by the frame is a tracing or duplicating pad 7, composed of cardboard, porous wood, or other suitable material, said pad being provided upon its upper surface with a coating of pigment 8, said pigment consisting of suitable coloring-matter combined with sufficient adhesive material to hold

the pigment to the pad except when a portion of the same is loosened by a marking-wheel or similar tool. The edges of the pad contiguous to the side pieces 2 and 3 and the end piece 4 project sufficiently into the recess 6 to be firmly supported by the base-wall thereof, and between these edges of the pad and the side walls of the recess are arranged beads or strips 9, which are permanently fastened to the frame by means of tacks or like fastenings 10 passing downward through the strip and the base-wall of the recessed portions 6. These strips limit the width of the open portions of the recess 6 and properly serve as guides for the pad 7, whose side edges fit sufficiently tight against the strips on the side pieces 2 and 3 to normally prevent the pad from accidentally dropping out of the frame, but not with sufficient friction to prevent the pad from being inserted into the frame and withdrawn therefrom by a sliding movement through the open space or entrance afforded by the cut-away upper surface of the end piece 5, which, as before stated, lies in the plane of the base-wall of the recess 6, and therefore forms a surface over which the pad 7 may be slid in applying it to and removing it from the frame.

Arranged over the pigmented surface 8 of the pad 7 is a screen layer 11, composed of wire or other suitable mesh or reticulated material having open meshes of suitable size to permit of the passage of the loosened portions of the pigment therethrough for transfer to the surface of the material on which the pattern is to be duplicated. This layer is superposed upon the pigmented surface in such manner that the meshes are normally out of contact with said surface, and thus prevent the uneven distribution of the pigment and smearing or discoloration of the material to which the pattern is to be transferred. Three of the edges of the screen layer 11 are secured to the side portions 2, 3, and 4 of the frame by arranging them between the side wall of the recess 6 and clamping them thereagainst by the strips 9, which thus serve to hold the screen layer in place, while forming guides for the pad 7. The other or fourth edge of the screen 11 extends over upon the upper surface of the end piece 5, which, as before described, is unprovided with a strip 9 and instead of being permanently fastened to said end piece 5 is detachably secured thereto by means of thumb-tacks or like securing devices 12, which may be readily withdrawn to free

the said edge of the screen, and thus permit of the ready insertion and removal of the pad 7.

In assembling the parts it will be understood that the frame is first formed and the strips 9 placed in the recess 6, after which the screen layer 11 is arranged in position with three of its side edges tucked down between the side walls of the recess and the strips 9 on the side and end pieces 2, 3, and 4, after which the strips are adjusted to clamp the edges of the screen and then fastened in clamping position by the securing devices 10. The pad 7 is then slid into place over the upper surface of the end piece 5 and the free edge of the screen then tacked down or secured to said end piece by the freely-detachable fastenings 12.

In using the device the material to which the pattern is transferred is laid flatwise upon the screen 11, the pattern laid upon the upper surface of the material, and a marking-wheel or like device employed to trace the outline of the pattern, the depression of the material by the same causing the underlying portions of the pigment layer 8 to be loosened and transferred through the open meshes of the screen to the material in an obvious manner. If desired, the material to be marked may be folded with one of its folds lying upon the screen 11 and a similar pad arranged beneath its other or upper fold, a pattern laid upon the upper fold, and a tracing-wheel or marker employed to effect the transfer in the manner described, the pressure causing the transfer of a portion of the pigment from each of the pigmented surfaces to the two folds of the fabric, thus effecting a double transfer. In this manner several layers or folds of fabric or other material may be readily and conveniently marked.

It will be seen that my invention provides a simple, cheap, and convenient device for the purpose described and that by confining the parts in the manner set forth in the supporting-frame the pad 7 when depleted of its coating or pigment may be quickly removed by simply detaching the securing devices 12 and sliding it outwardly over the upper surface of the end piece 5, after which a new pad may be conveniently inserted into position and the free edge of the screen layer 11 secured by the fastenings 12 again to retain the pad in place. When it is desired to disassemble the parts of the device for any purpose, this may be readily accomplished by first removing the fastenings 12 and then detaching the strips 9 by withdrawing their fastenings 10, as will be readily understood.

While I have shown in the present instance a frame of oblong rectangular form composed of what I have hereinbefore termed "side" and "end" pieces, it will of course be under-

stood that I may use a square frame and that the parts 4 and 5 may properly be termed "sides" of the frame. With this understanding I have set forth in the following claims a structure in which provision is made for the convenient insertion and removal of the pad by securing the screen layer at three of its sides to the frame, leaving the fourth side free or detachably secured, so that it may be quickly adjusted to admit of the passage of the pad. Such an organization is readily applicable to a square frame, and it will be understood that the claims are designed to cover the application of the invention to a square, oblong, rectangular, or any other suitable form of frame in connection with which the described arrangement of the parts may be employed.

Having thus described the invention, what is claimed as new is—

1. A tracing or duplicating device comprising a frame, a pad having a coloring-pigment on its surface, said pad being supported upon and removable through one side of the frame, and a screen layer over the pigment-carrying surface of the pad, said layer being permanently secured on three of its edges to the frame and having its other edge freely detachable to permit removal of the pad.

2. A tracing or duplicating device comprising a frame having a receiving-recess and an entrance to said recess, a pad having a coloring-pigment on its surface, said pad being arranged in said recess and insertible and removable through said entrance, strips in the recess forming guides for the pad, and a screen layer over the pad having three of its side edges clamped to the frame by said strips, the other side edge being detachably secured to the base of the entrance to removably confine the pad in place.

3. A tracing or duplicating device comprising a rectangular frame, three of the sides of the frame being provided on their inner upper edges with grooves forming a recess, the fourth side having an entrance to said recess, strips in the recess, a pad having three of its edges seated in the recess and guided by said strips and its other edge supported by the wall of the entrance, a screen layer over the pad having three of its side edges clamped by the strips against the wall of the recess, the other edge of the layer being arranged to overlap the wall of the entrance, and means for detachably securing the latter-named edge to the wall of the entrance to removably confine the pad in place.

In testimony whereof I affix my signature in presence of two witnesses.

LOU CAL. EDMUND.

Witnesses:

CHAS. M. CLORE,
SAMUEL J. REED.