

No. 697,594.

Patented Apr. 15, 1902.

F. A. ALTENEDER.
DRAWING IMPLEMENT.
(Application filed Sept. 21, 1901.)

(No Model.)

FIG. I.

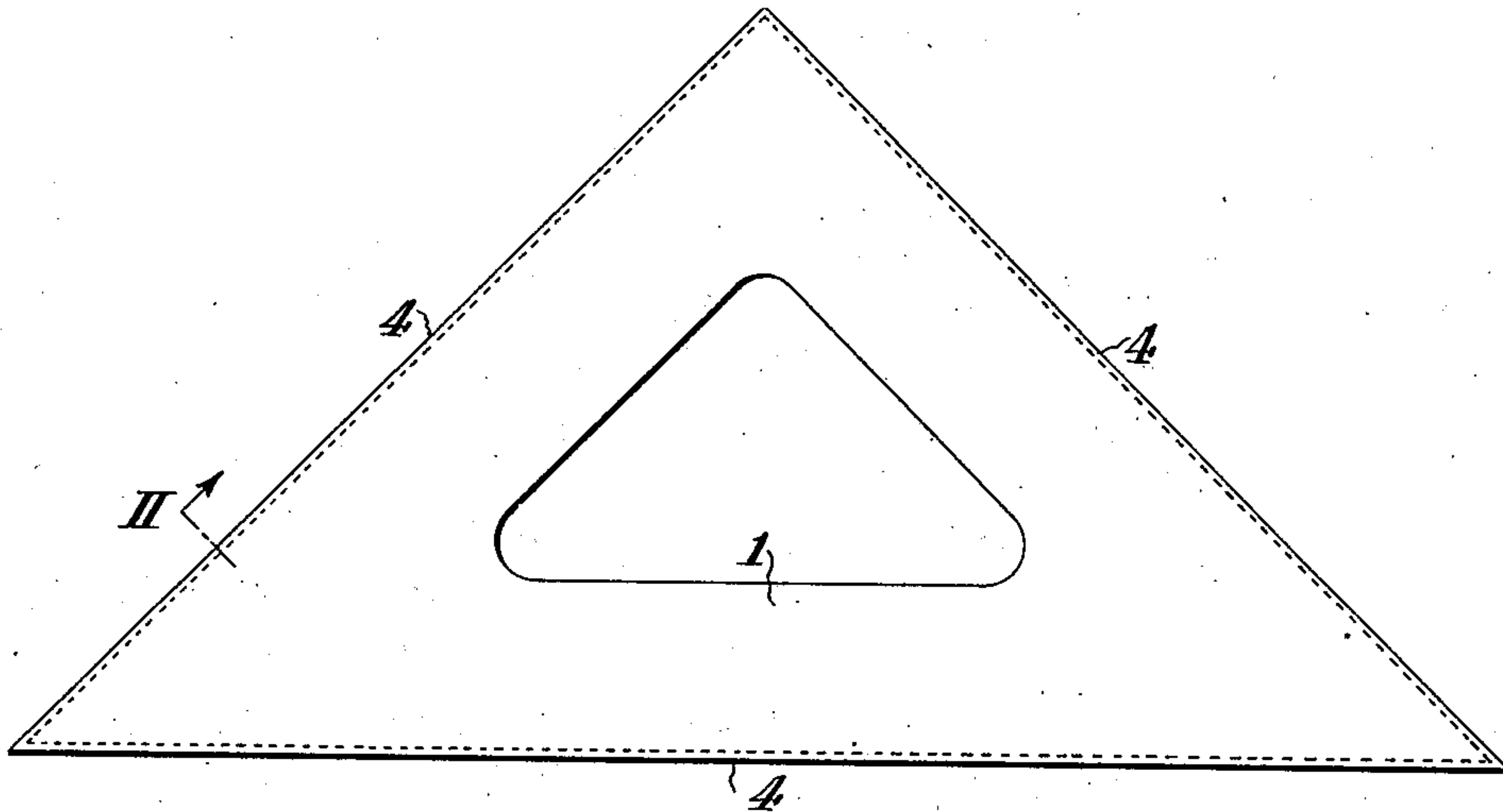


FIG. II.

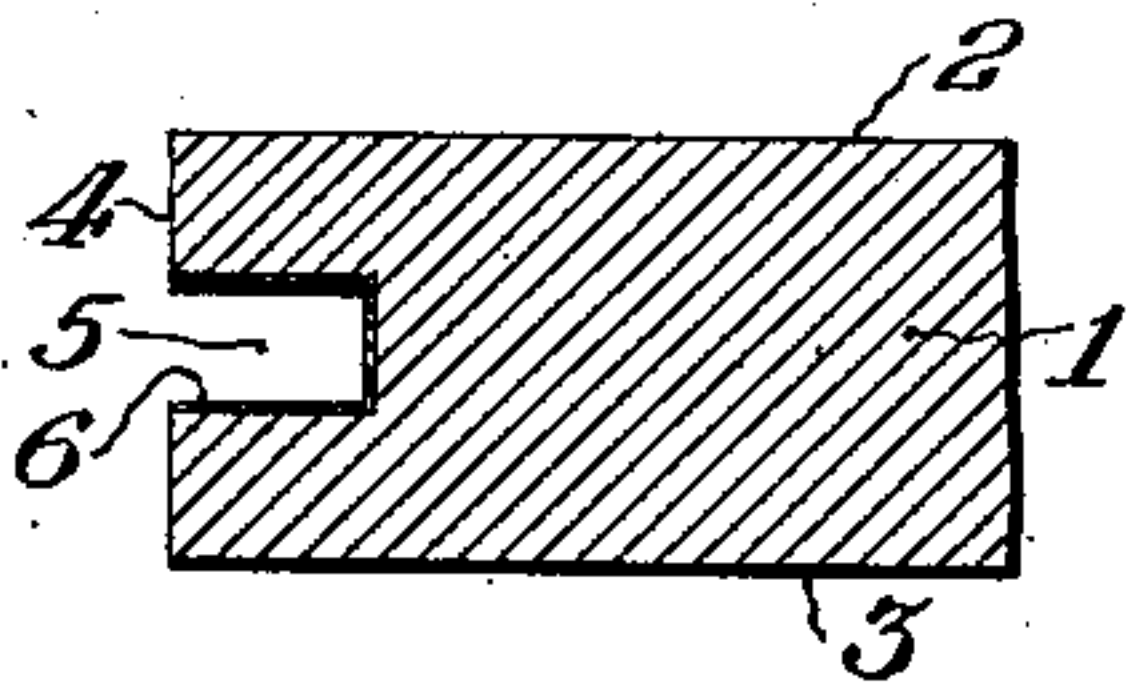
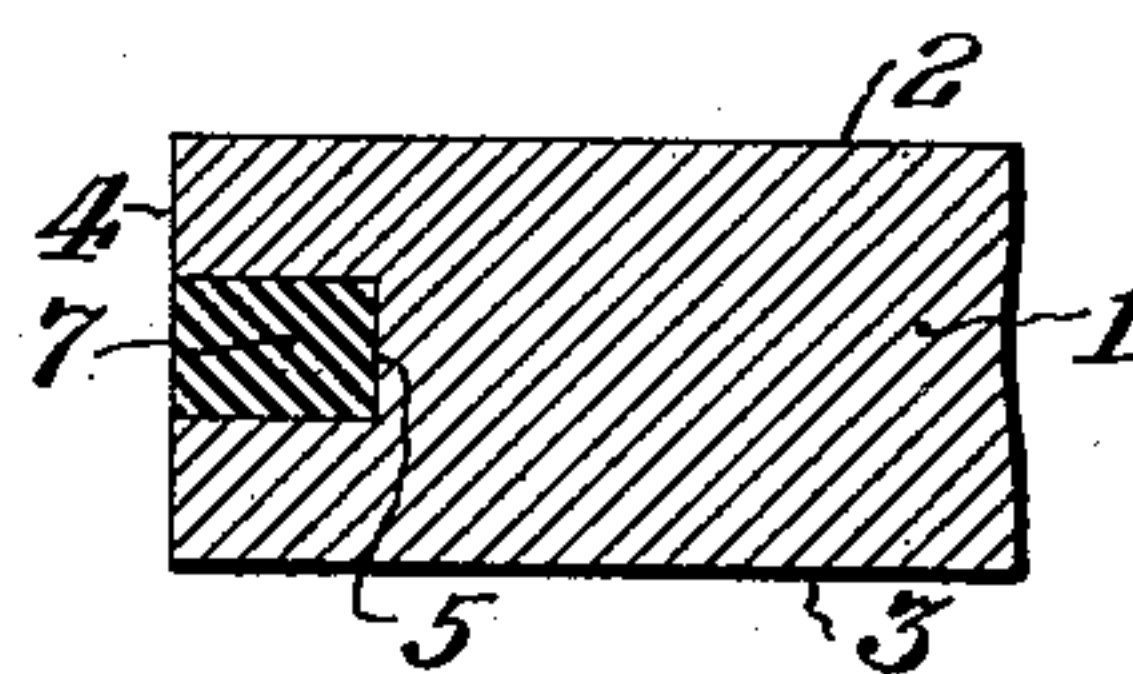


FIG. III.



WITNESSES:

Edward Rittenhouse
John C. Bergner.

INVENTOR:

FERDINAND A. ALTENEDER,
by Arthur E. Paige
Att.

UNITED STATES PATENT OFFICE.

FERDINAND A. ALTENEDER, OF GLENSIDE, PENNSYLVANIA.

DRAWING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 697,594, dated April 15, 1902.

Application filed September 21, 1901. Serial No. 76,032. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND A. ALTENEDER, of Glenside, in the State of Pennsylvania, have invented certain new and useful Improvements in Drawing Implements, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates to implements of the class including T-squares, triangles, ship and railway curves, irregular scrolls, &c., formed of celluloid or other translucent or transparent material provided with an edge of straight or curved contour adapted to serve as a guide for a pencil or pen point in linear drawing. Hitherto such implements have been made of transparent material throughout their breadth, including said guiding edge, with the result that said edge is not sufficiently defined and must be closely observed by the operator in order to approximate to the lines existing upon the surface of the drawing.

It is the object of my invention to render opaque the guiding edge or edges of a transparent implement of the class described, so as to sharply define the same and thus facilitate the operation of adjusting the implement to lines existing upon the drawing-surface.

In the accompanying drawings, Figure I is a plan view embodying my invention. Fig. II is a fragmentary sectional view taken on the line II in Fig. I. Fig. III is a sectional view similar to Fig. II, but showing modified means for rendering the guiding edge opaque.

In said figures, 1 is the implement-body of transparent material having opposite plane surfaces 2 and 3 and provided with the guiding edge or edges 4. Said guiding edges are rendered opaque to the extent indicated by the dotted lines in Fig. I by any convenient means attached to said body 1.

In the form of my invention shown in Fig. II the guiding edge 4 comprises a longitudinal channel or recess 5, extending between the plane surfaces 2 and 3 and parallel therewith. Said recess being coated with a layer of black varnish 6, the effect is to render the guiding edge 4 opaque to the extent of said recess.

In the form of my invention shown in Fig. III the recess 5 is filled with an opaque substance 7, which presents a solid front along the edge 4.

It is to be noted that the implement de-

scribed possesses all of the advantages of an instrument which is transparent throughout its breadth in enabling the draftsman to observe the drawing through it, with the additional advantage that the work of the draftsman is facilitated by the ease with which the guiding edge, which contrasts sharply with the drawing-surface, may be adjusted to the existing lines of the drawing.

Although I prefer to construct the body of my improved implement of material which is not only transparent, but flexible, as celluloid or similar compounds, I do not desire to limit myself to such compounds. Moreover, I do not desire to limit myself to the precise form of my invention which I have shown, as it is obvious that various modifications may be made therein without departing from the essential features of my invention.

I claim—

1. An implement of the class described, comprising a transparent body provided with a guiding edge; a recess in said guiding edge; and an opaque substance secured in said recess, substantially as set forth.

2. An implement of the class described, comprising a body of transparent material having opposite parallel plane surfaces provided with a guiding edge; a recess extending parallel with said guiding edge and intermediate of said plane surfaces; and an opaque substance secured in said recess, substantially as set forth.

3. An implement of the class described, comprising a flexible transparent body provided with a guiding edge; a recess in said guiding edge; and an opaque substance secured in said recess, substantially as set forth.

4. An implement of the class described, comprising a body of transparent flexible material having opposite parallel plane surfaces provided with a guiding edge; a recess extending parallel with said guiding edge and intermediate of said plane surfaces; and an opaque substance secured in said recess, substantially as set forth.

In testimony whereof I have hereunto signed my name at Philadelphia, Pennsylvania, this 16th day of September, 1901.

FERDINAND A. ALTENEDER.

Witnesses:

ARTHUR E. PAIGE,
MILDRED BARNHART.