L. N. PLANTE.

CREASING BOARD.

APPLICATION FILED APR. 17, 1916.

1,221,213.

Patented Apr. 3, 1917.

Fig. 1.

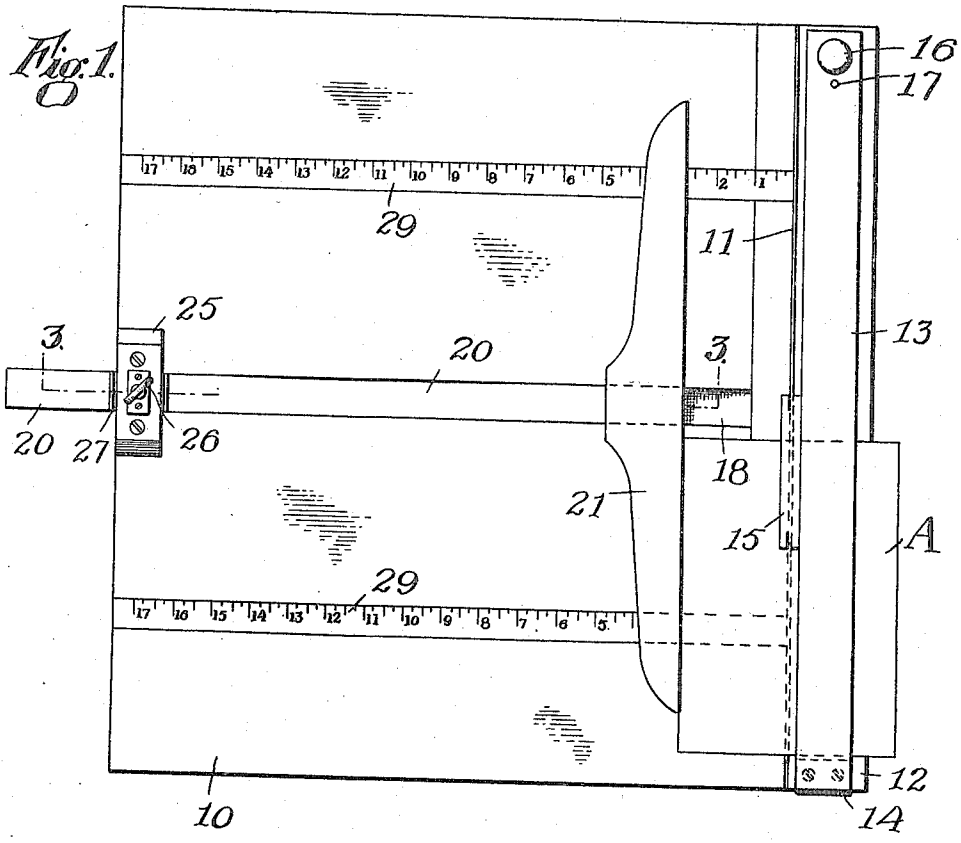


Fig. 2.

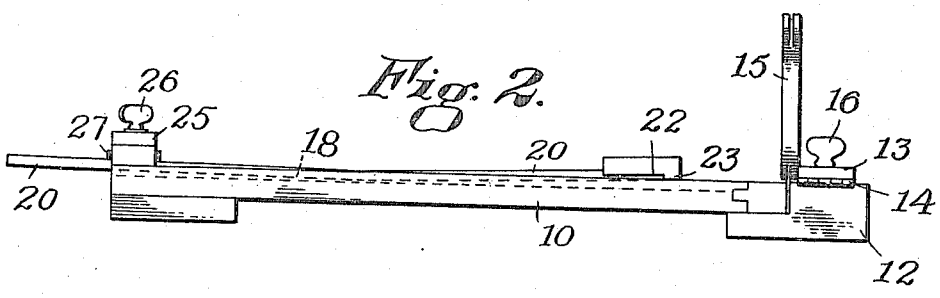
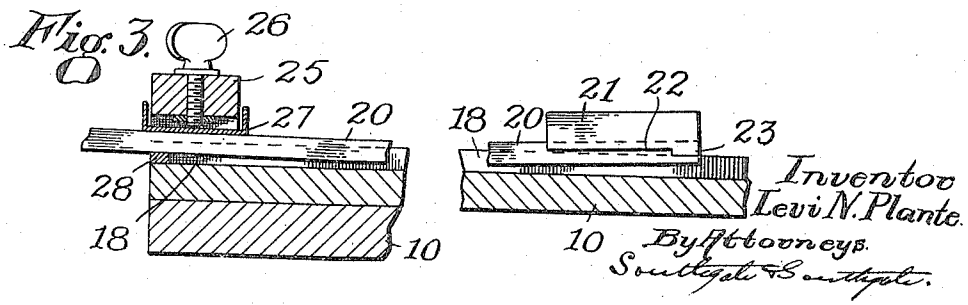


Fig. 3.



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CREASING-BOARD.

1,221,213. Specification of Letters Patent. Patented Apr. 3, 1917.

Application filed April 17, 1916. Serial No. 91,682.

To all whom it may concern:

Be it known that I, LEVI N. PLANTE, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Creasing-Board, of which the following is a specification.

This invention relates to a creasing board for use in creasing paper, cards, and the like for photograph folder stock, paper advertising devices, and the like.

The principal objects of the invention are to provide a device of this character with simple and convenient means whereby the card or paper can be held in position while it is being creased, said means also serving as a guide to effectively prevent the creasing stick from being dislodged from the projecting strip on which the crease is made; to provide an improved form of guide or limiting device against which the edge of the paper or card is adapted to come, the same being adjustable for providing the crease at different distances from the edge; to provide means for showing readily the distance between the crease and edge; and to provide improvements in the T-square and its connection with the board, and especially means for clamping the same.

Reference is to be had to the accompanying drawings in which—

Figure 1 is a plan of a creasing board constructed in accordance with this invention; Fig 2 is an edge view of the same, and Fig. 3 is a sectional view on the line 3—3 of Fig. 1.

The invention is shown as comprising mainly a flat board 10 of square or rectangular shape provided near one edge and parallel therewith with a metal creasing strip 11 extending slightly above the surface of the board. The slit for this is made preferably by separating the edge of the board proper from a supporting cleat 12 of L-shaped form secured to the bottom of the board near that edge and extending up along the edge so as to be flush with the top surface of the board.

For the purpose of holding the sheet of paper, card-board or the like firmly in position on the board a holding plate 13 is provided hinged at 14 to the cleat 12. It will be noted that this swings on an axis in the plane of the board, the axis being at right angles to the strip 11. In this way the plate 13 serves not only to enable the operator to hold a paper or card-board down with it, but it also serves to constitute a guide for the creasing stick 15 used for forming the crease. Although there is not much danger of the creasing stick coming off the strip 11 in practice, yet this guide plate furnishes a positive means for preventing it in one direction and is designed to receive a certain amount of pressure so that it practically keeps it from coming off in the other direction also. This plate is shown as provided with a knob 16 for operating it and a pin 17 is shown for guiding it into the proper position at its free end.

Preferably at the middle of the board there is a groove 18 at right angles to the strip 11 for receiving the shank 20 of a T-square head 21. This shank is of substantially the same depth as the groove and consequently is adapted to slide back and forth therein so as to bring the straight edge of the head of the T-square toward or from the creasing strip 11. Furthermore the lower edge of the T-square head is beveled off underneath as indicated at 22 and provided with a ledge 23 adapted to fit down on the surface of the board for preventing even a thin paper passing below it.

At the end of the board is a cleat 25 having a thumb-screw 26 extending down into it and adapted to engage a metal clamp 27 on the bottom for holding the same down on the shank of the T-square and clamping the latter in position. For the purpose of causing this thumb-screw to force the shank of the T-square down into the groove and thus hold the edge of the ledge 23 down on the surface of the board with some pressure a cross-bar 28 is provided at the outer end of the groove 18 for receiving the shank on its upper edge. In this way the pressure of the thumb-screw occurs at a little distance from this supporting member, and as Fig. 3 shows, bows the shank down into the groove so as to hold the ledge 23 down with considerable pressure on the surface of the board.

For the purpose of providing convenient means for accurately measuring the distance between the edge of the card or paper and the crease to be made a pair of scales 29 are shown mortised into the surface of the board and coming under the outer edges of the T-shaped head. By having two the use of the device is more convenient and any tendency of the T-square to move out

of proper position can be detected readily. But a single scale can be used if desired.

In the use of the device the thumb-screw 26 is loosened and the T-square moved along the groove until it registers the proper distance from the strip 11, as for example in the position shown $2\frac{3}{4}$ inches. Then the thumb-screw is clamped down forcing the shank of the T-square down into the slot 18 and holding the edge 23 firmly down on the surface of the board. Then the clamping plate 13 is raised about its pivot, the paper or card-board A placed under it, the only care required being to get its straight edge firmly against the straight edge of the T-square head 21. Then the clamping plate 13 is moved downwardly into position on the board and held there by the hand preferably. The creasing stick 15 is then moved along once or more times over the surface of the paper. It is guided at this time by the edge of the clamping plate 13 and by the upper edge of the creasing strip 11 as indicated more especially in Fig. 2. Having once set the device it will be obvious that a large number of cards or papers can be creased exactly in the same position without adjustment or measurement, thus greatly facilitating this operation.

Although I have illustrated and described only a single embodiment of the invention I am aware of the fact that modifications can be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore I do not wish to be limited to all the details of construction herein shown and described, but what I do claim is:—

1. As an article of manufacture, a creasing board provided with a stationary creasing strip extending slightly above the surface thereof and substantially throughout the width of the board, and a clamping plate pivotally connected with the board to swing toward and from the plane thereof just beyond the creasing strip.

2. As an article of manufacture, a creasing board having a creasing strip extending above the surface thereof and located across the board, a clamping plate hinged to the board so as to swing on an axis located in the plane thereof at one edge and at right angles to said creasing strip, said clamping plate having an edge parallel with and adjacent to the creasing strip for guiding the creasing stick.

3. As an article of manufacture, a creasing board arranged to support a sheet and having a strip of metal arranged along the edge of the board proper and projecting up slightly above it, and means beyond the edge of the board proper for holding down a piece of paper or card board thereover.

4. As an article of manufacture, a creasing board provided with a creasing strip arranged near the edge of the board and projecting above its surface, means beyond the strip for holding a paper or cardboard thereon, and a T-square head parallel with said creasing strip and adjustable directly toward and from it.

5. As an article of manufacture, a creasing board provided with a projecting creasing strip arranged near the edge thereof, means beyond the strip for holding a paper or cardboard thereon, and a T-square head parallel with said creasing strip and adjustable directly toward and from it, said board having a groove therein for receiving the shank of said T-square.

6. As an article of manufacture, a creasing board provided with a projecting creasing strip arranged near the edge thereof, a T-square head parallel with said creasing strip and adjustable directly toward and from it, said board having a groove therein for receiving the shank of said T-square.

7. As an article of manufacture, a creasing board provided with a creasing strip, a T-square head parallel with said creasing strip and adjustable directly toward and from it along the surface of the board, said board having a groove therein for receiving the shank of said T-square, means under the shank at the opposite end of the board for supporting it above the bottom of the groove, and means for clamping down the shank between said supporting means and the head of the T-square.

8. The combination with a creasing board having a creasing strip thereon, and provided with a groove at right angles thereto, of a T-square having a shank adapted to slide in said groove, and means for clamping the shank in adjusted positions, said T-square having a head adapted to rest at its edge on the surface of the board and having the under side beveled out just back of said edge.

9. As an article of manufacture, a creasing board provided with a creasing strip, a T-square head parallel with said creasing strip and adjustable directly toward and from it, and a scale arranged parallel with the direction of motion of the T-square and set into the surface of the board.

In testimony whereof I have hereunto set my hand.

LEVI N. PLANTE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."