Oct. 16, 1934. J. REUTER ET AL 1,976,747

THUMB TACK

Filed Jan. 16, 1933

Fig. 1.

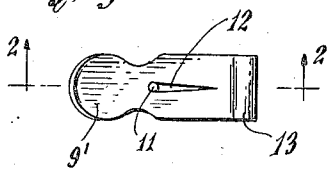


Fig. 4.

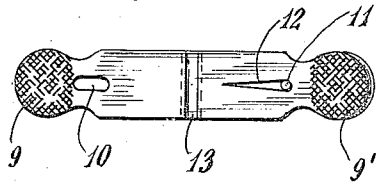


Fig. 3.

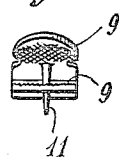


Fig. 2.

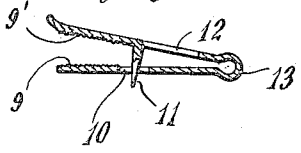


Fig. 5.

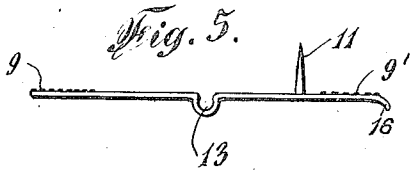


Fig. 7.

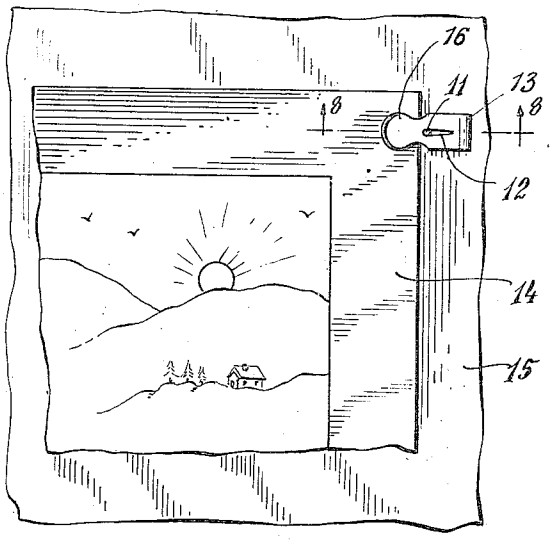


Fig. 6.

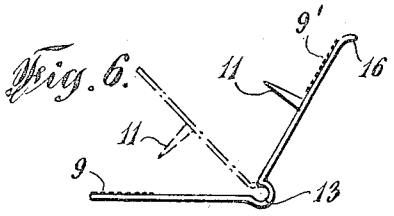


Fig. 9.

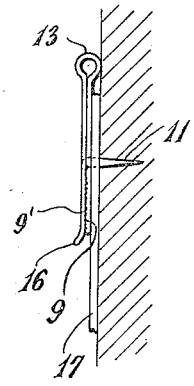


Fig. 10.

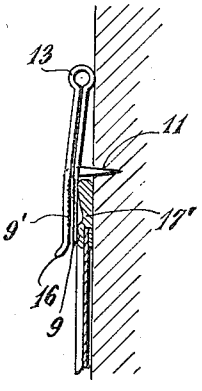
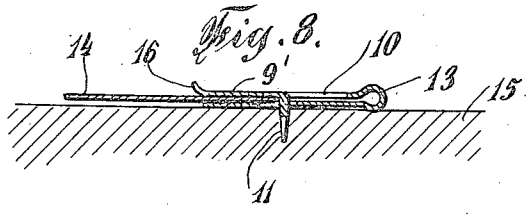


Fig. 8.



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UNITED STATES PATENT OFFICE

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THUMB TACK

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Application January 16, 1933, Serial No. 651,998

3 Claims. (Cl. 85—16)

This invention relates to thumb tacks usually consisting of a broad crowned head having a nail or spike secured and extending centrally therefrom and are variously used for fastening sheets to a supporting surface, such as a sheet of drawing paper to a board, and in order to securely fasten the same to its support the nail or spike is forced through and perforates a marginal portion of the sheet necessitating the providing of a sheet of oversize so that the perforated marginal portion may be trimmed from the sheet.

It is the object of the invention to provide an improved thumb tack and clamp and method of producing the same.

In the drawing accompanying and forming a part of this application Figure 1 is an elevational view of our improved thumb tack and clamp.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1 looking in the direction of the arrows.

Figure 3 is an end elevation looking at the left of Figure 2.

Figure 4 is a plan view of a blank from which the thumb tack and clamp is constructed.

Figure 5 is a side view looking at the bottom of Figure 4.

Figure 6 is a view similar to Figure 5, but showing an end portion in different positions in the folding or bending of the blank upon itself in the forming of the thumb tack and clamp.

Figure 7 is a plan view to show the use of the thumb tack and clamp in fastening a sheet of drawing paper to a board.

Figure 8 is a sectional view taken on the line 8—8 of Figure 7 looking in the direction of the arrows.

Figure 9 is a side elevation showing the use of the thumb tack and clamp for fastening and suspending a sheet in vertical position from a supporting surface; and

Figure 10 is a view similar to Figure 9 showing another manner of supporting an article from a vertical supporting surface by the tack.

The combined thumb tack and clamp is constructed of yielding, preferably resilient, metal by stamping a blank from a strip or sheet of metal and shaping the same to final form.

In the method of carrying out the invention a blank as shown in Figure 4 is stamped from a strip or sheet, the opposite ends of the blank preferably being arranged to arcuate shape and a face of said end portions of the blank roughened, as at 9, 9', to simulate a milled or knurled surface. The blank is bent or folded upon itself intermediate the ends so that the roughened surfaces will be in opposed relation, as shown in Figure 2. The blank adjacent one end intermediate the end and portion on which the blank is folded is provided with a perforation or elongated opening or slot 10, and the blank adjacent the opposite end and intermediate said end and the fold of the blank is provided with a spike or nail 11 to extend from the face having the roughened portions 9, 9', as shown in Figure 5. While this spike may be constructed separately from the blank and secured thereto, it is preferably formed from the material of the blank, as by stamping a portion from the blank, as at 12 in Figure 4, and then bending such portion to extend substantially at a right angle to the face of the blank, said spike as the blank is folded being engaged in and extended through the opening 10, as shown in Figure 2.

To facilitate a predetermined folding or bending of the blank it is provided with a recess of arcuate shape in cross section to extend transversely of the blank intermediate the ends, as at 13, and said portion when the end portions of the blank are positioned in contiguous relation to each other forming in effect an eye.

In fastening a sheet to a support, such as a sheet of drawing paper 14 to a board 15, the spike or nail is entered partly into the board when the marginal portion of the sheet is engaged between the roughened surfaces and the spike is then pushed home into the board drawing the portion of the blank carrying the spike to the opposite end portion and thereby firmly clamping the sheet between the end portions beyond the spike and the spike securely fastening the sheet to the board. Or if desired the sheet may be positioned between the end portions 9, 9' prior to the forcing of the spike into the support.

To facilitate the releasing and removal of the spike from the board the end portion carrying the spike may be of somewhat greater length than the end portion with the perforation 10, and the marginal portion deflected or flared laterally, as at 16, to permit of the ready engagement of a finger nail or an implement below the same to release the spike from the board.

In Figure 9 there is shown the manner of fastening and suspending a sheet 17 by the spike relative to a vertical surface, such as a wall, the spike being extended through the sheet and into the support. In Figure 10 a further method is shown of supporting an article relative to the vertical surface of a support, as by the frame 17' of a picture. In this instance the frame is supported by clamping it to the wall by the portion 9,

the spike being entered into the wall above the frame.

While there has been illustrated one structural embodiment of the invention it will be obvious that various modifications may be made in the construction and arrangement of parts without departing from the scope of the invention.

Having described our invention, we claim:

1. As an article of manufacture, a combined thumb tack and clamp comprising a yieldable metallic strip folded upon itself intermediate the ends and arranged with an elongated opening midway between one end and the fold, and a spike formed from the material of and bent to extend at a right angle from a face of the strip midway between the fold and the opposite end of the strip and adapted to engage in the opening, and the portions outward from the opening and spike adapted to clamp an article between the same and one extremity flared laterally to serve as a finger grip for the ready release of an article clamped between the same and removal of the tack from a support.

2. As an article of manufacture, a thumb tack consisting of a metallic strip folded upon itself intermediate the ends, one folded portion midway the length thereof arranged with a spike and the other folded portion arranged with a slot adapted for the passage of the spike as the strip is folded upon itself, the folded portions outward from the spike being flat and adapted for the clamping of a sheet therebetween, and the extremity of the spike carrying portion extended beyond the flat portion and flared laterally from the slotted portion.

3. A thumb tack as claimed in claim 2, wherein the opposed faces of the portions of the strip outward from the opening and spike are roughened and adapted to serve as a clamp, and the margin of the end of one portion of the plate extending slightly beyond and flared laterally of the other portion of the plate to serve as a finger grip for the ready release of an article clamped between the same and the tack from a support.

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