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CARPET ANCHORING MEANS

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Fig. 1

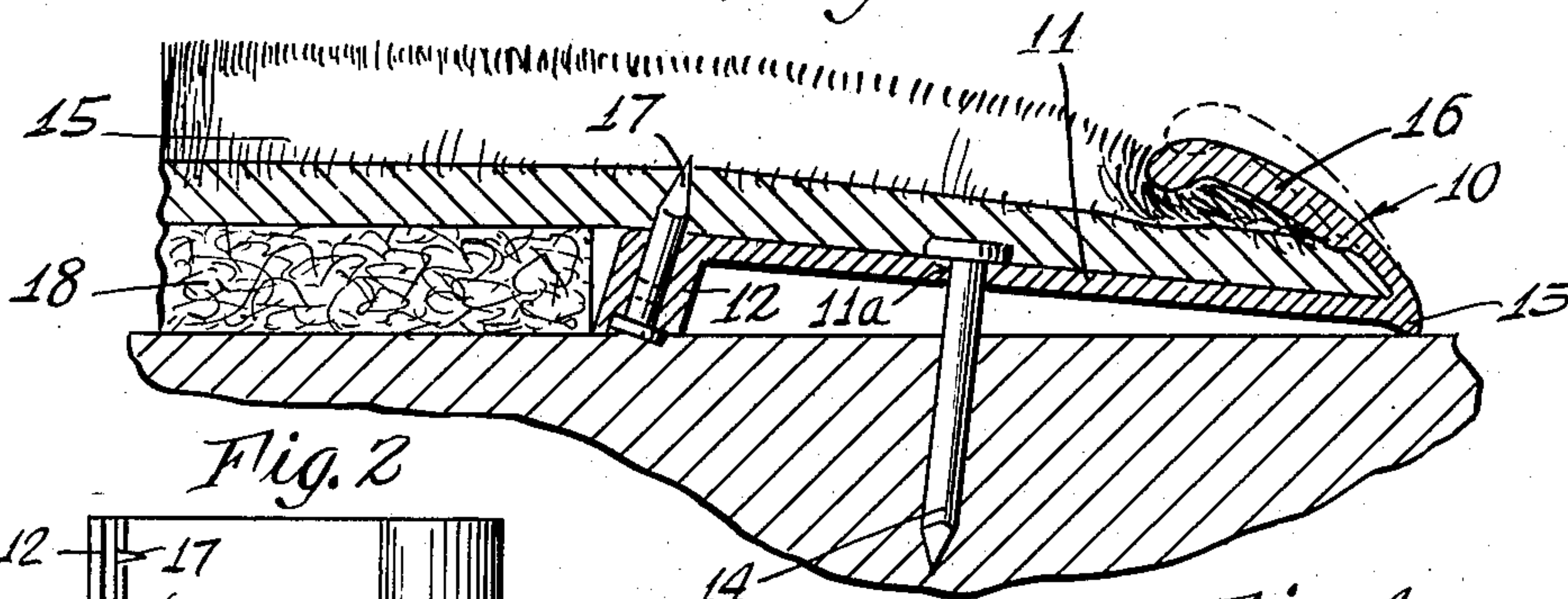


Fig. 2

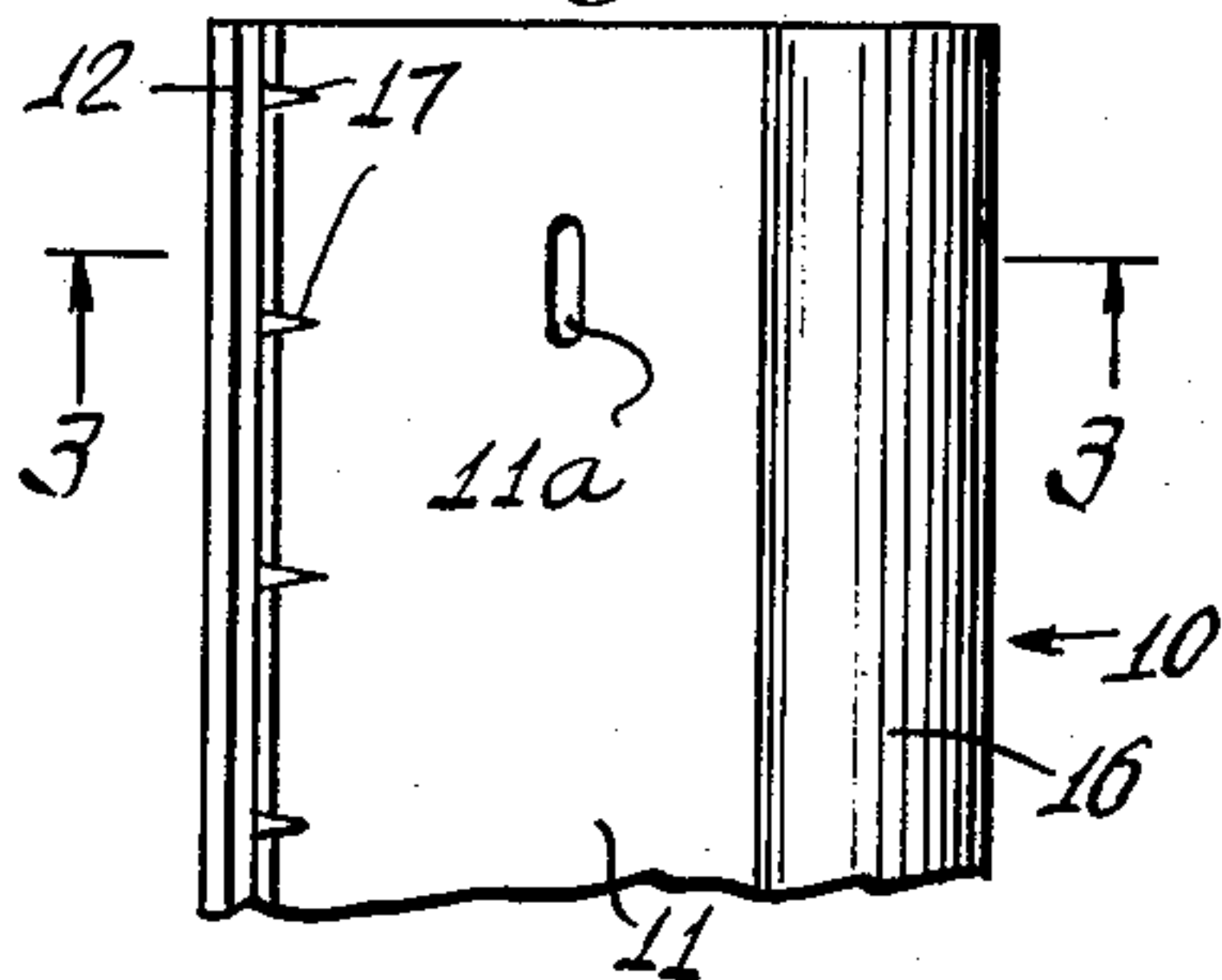


Fig. 4

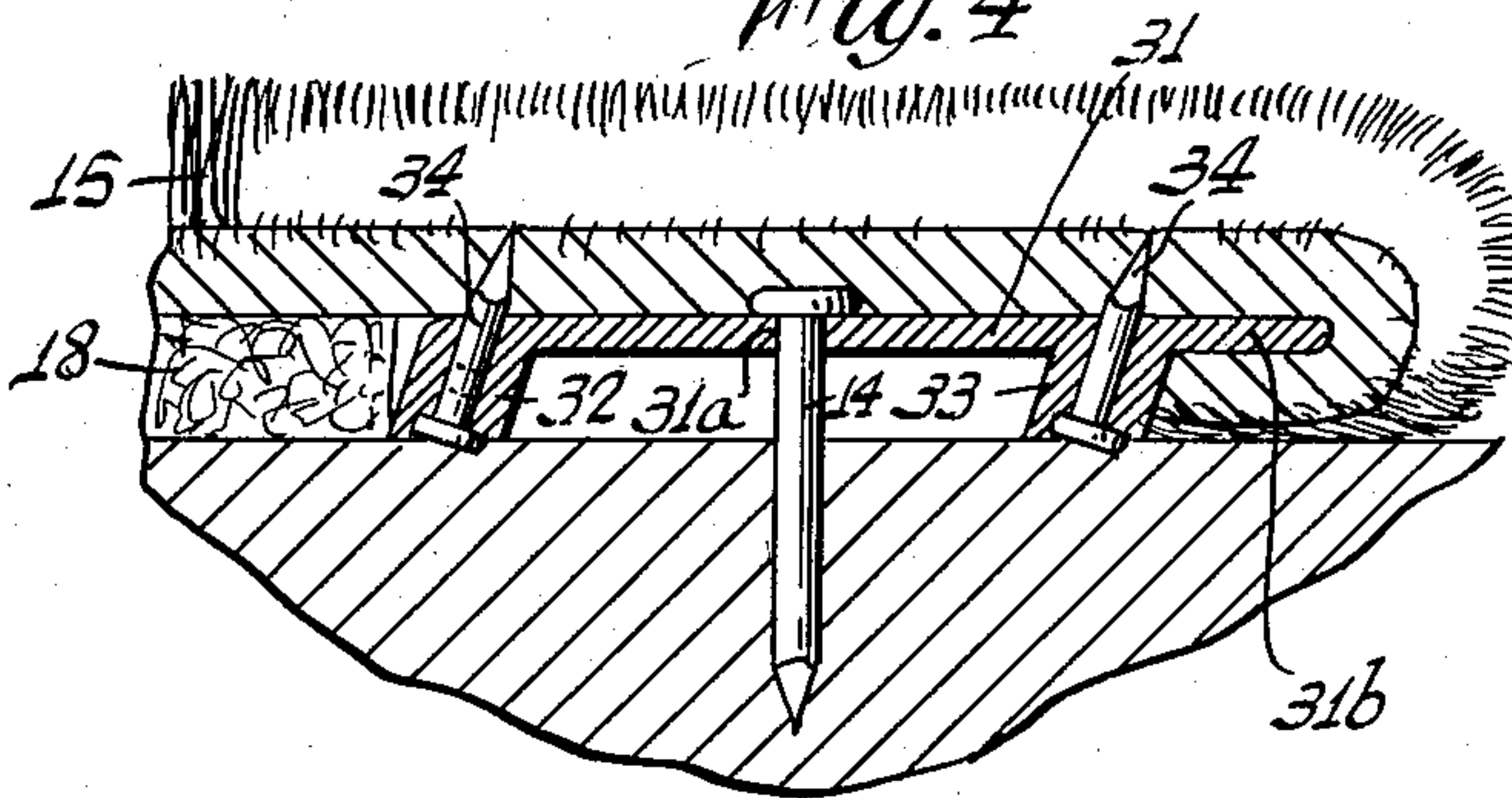


Fig. 3

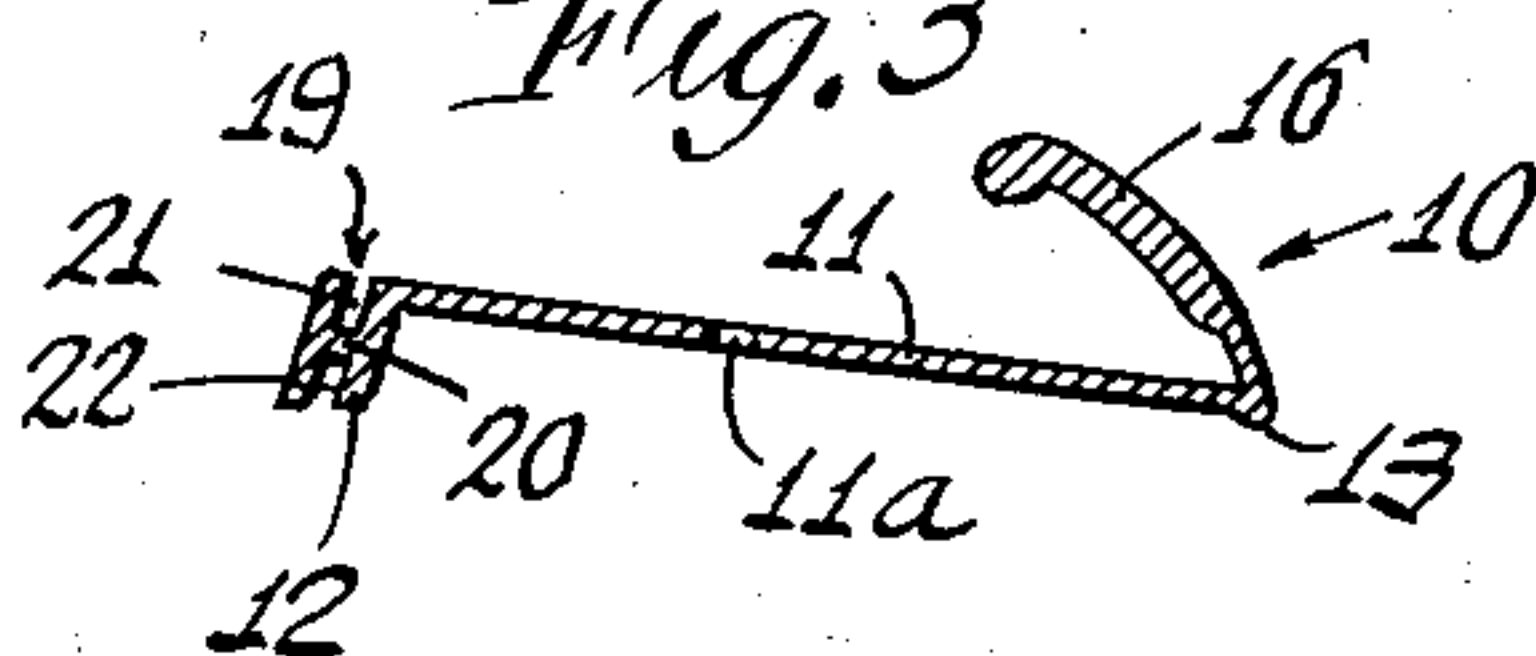


Fig. 6

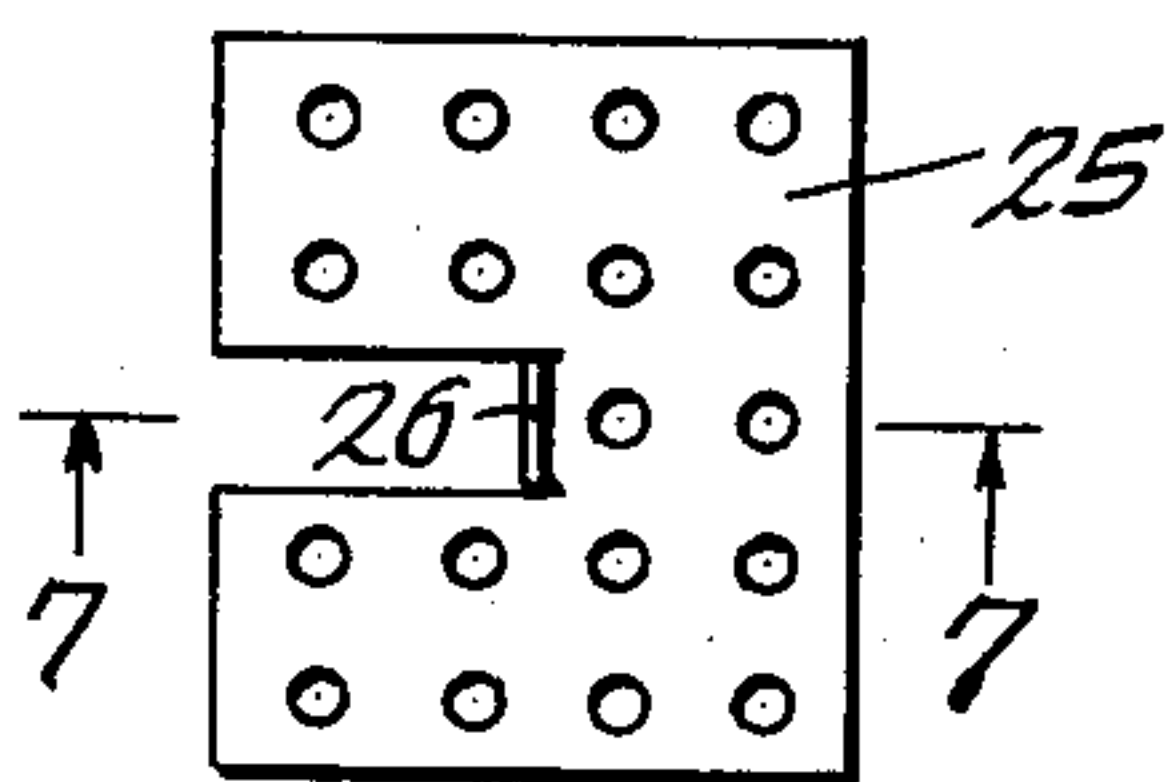


Fig. 5

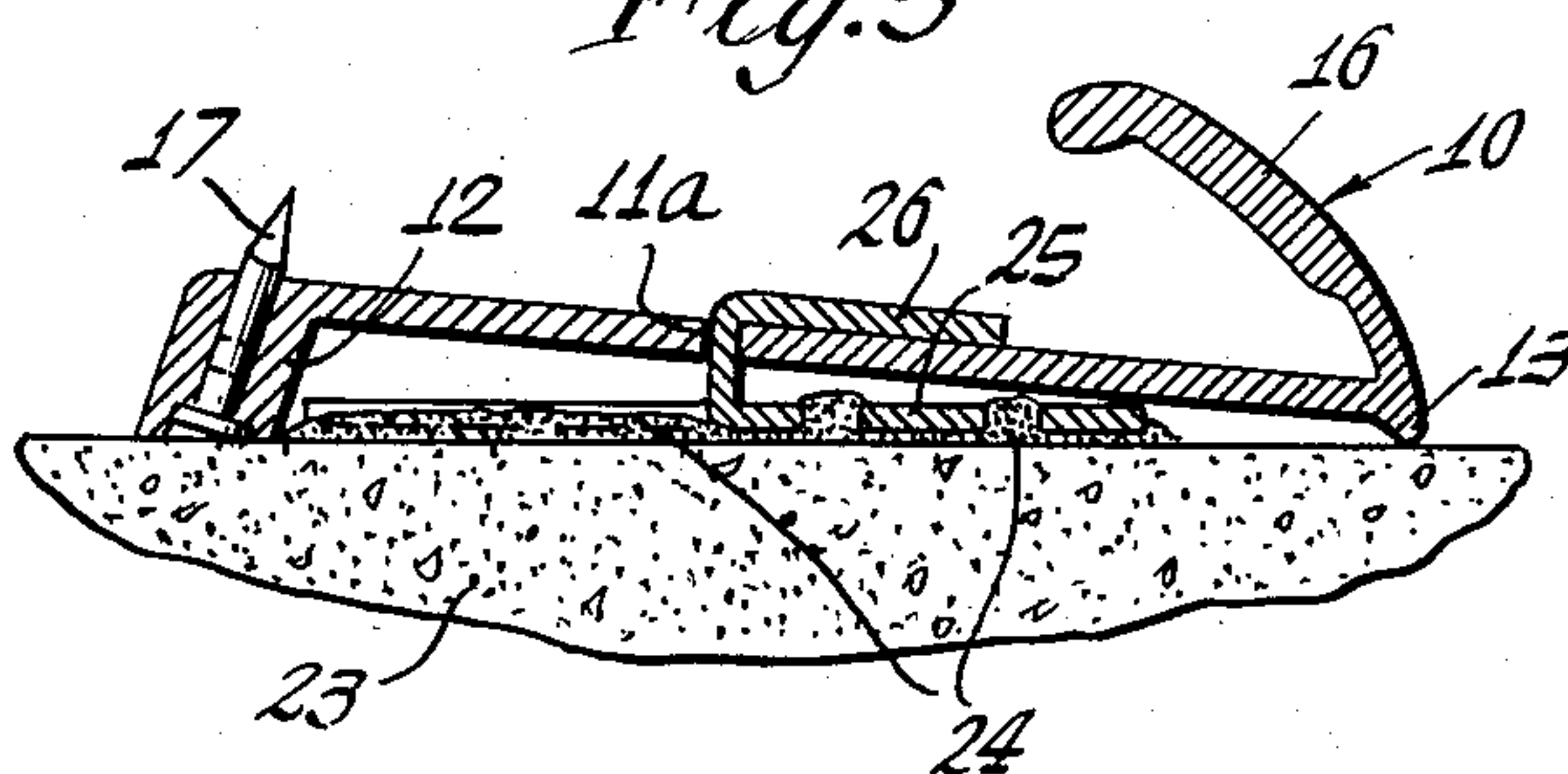
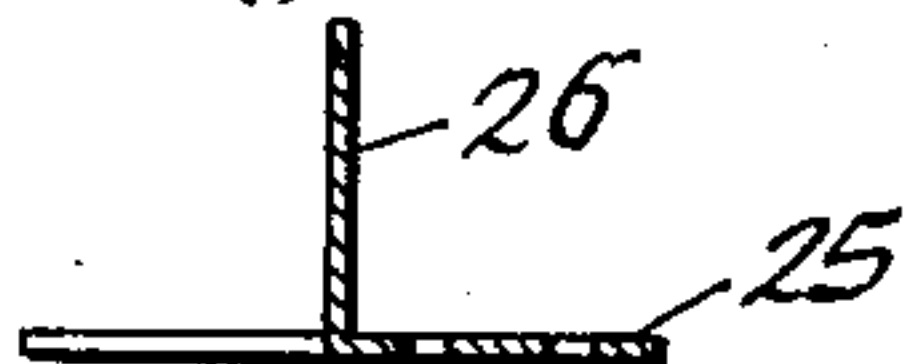


Fig. 7



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2,849,747

CARPET ANCHORING MEANS

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9 Claims. (Cl. 16—16)

This invention relates to an anchoring device for the marginal edge portions of a carpet or the like floor covering for firmly securing and anchoring the carpet in position.

Heretofore, it has been a problem in anchoring carpets to the floor to provide adequate securing means for the carpet. Normally the anchoring devices have been made of soft bendable metals and the securing tangs have been lanced out from the metal so as to bite into the carpet. However, being of soft or bendable material, pulls on the carpet have caused the tangs to bend back or to break off and release the carpet.

The present invention overcomes these difficulties by providing an anchoring means which will securely hold the carpet in position and which comprises a simplified and inexpensive binding and/or anchoring means which can be easily and quickly fabricated and installed.

This is accomplished by providing the anchoring member, which may be made of aluminum, brass, plastic or other bendable material, with a thickened rib extending therealong and by inserting through the rib so as to project above the base, spikes of material stronger than the base material which will pierce the back of the carpet and effectively hold the carpet against release from the anchoring means. Preferably, the ribs extend downwardly from the base, which is adapted to be secured to the floor, and are provided with means whereby the nails can be readily driven therethrough so as to pierce the rib and project above the base.

The present invention is a species of the invention shown and claimed in my copending application Serial No. 491,375 and now Patent No. 2,820,980, issued Jan. 28, 1958.

In one form of the invention the base is provided with a rearwardly and upwardly extending cover piece at its forward end which is adapted to be bent down over the carpet to provide a protective binding or cover therefor.

In another form of the invention the base is provided with a pair of depending ribs with the free forward edge portion of the base being adapted to receive the tucked-in carpet edge to hold it in position.

A feature of the invention resides in the fact that the attaching strip can be made by using an extruded section and by merely driving the nails therethrough from the underside. The extruded strip can be of relatively soft material and can be readily severed into the required lengths.

Another feature of the invention resides in novel means for securing the anchoring member to the floor.

Other features and advantages of the invention will be apparent from the specification and claims when considered in connection with the drawings in which:

Figure 1 is a sectional view of the anchoring means in position.

Fig. 2 is a top plan view of the anchor strip.

Fig. 3 is a sectional view of the extruded section taken on line 3—3 of Fig. 2.

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Fig. 4 is a view similar to Fig. 1 showing another form of the invention.

Fig. 5 shows the anchor strip of Fig. 1 secured to a cement floor.

Fig. 6 is a top plan view of the fastening plate used in Fig. 5 to secure the attaching device to the floor.

Fig. 7 is a section taken along lines 7—7 of Fig. 6.

As shown in the drawings, one form of the anchor means of the present invention comprises an extruded section 10 of aluminum, brass, plastic or other bendable material and provides a base member 11 having a thickened rib portion 12 and having at its forward edge a downwardly extending nosepiece 13 adapted to be pressed tightly against the floor when the anchoring member is secured thereto by nails 14 or other suitable means passing through elongate slots 11a in the base as shown in Figs. 1 and 2. The anchor member is adapted to be inserted under the edge of the carpet 15 with the base supporting the edge of the carpet. When the anchoring member is to serve as a binding means, it is provided at its forward edge with an upwardly and rearwardly extending protective member 16 adapted to be bent down and cover the edge as shown in Fig. 1. In order to hold the carpet in position, the present invention provides a plurality of steel spikes 17 which are much stronger than the material of the base and which are driven through the rib at spaced intervals so as to extend above the base and incline toward the edge of the carpet so as to pierce the back of the carpet as shown in Fig. 1. If the carpet is to be used with the usual padding, the ribs are formed to project downwardly and are of a height substantially equal to the padding 18 as shown in Fig. 1.

While the spikes may be driven into the rib in any suitable manner, in the preferred form of the invention the rib is grooved at 19 so as to produce a transverse portion 20 of thin cross-section through which the spikes or nails can be driven. In the illustrated form of the invention a pair of grooves 21, 22 are employed resulting in a rib of H-shape cross-section, with the cross web of the H constituting the transverse portion 20. The walls of the grooves are spaced apart a distance slightly less than the diameter of the nail so that as the nail is driven through the rib, it will not only pierce the transverse portion but it will be frictionally gripped by the walls of the grooves.

Under some circumstances it may be desired to secure the anchoring device to a concrete or the like floor 23 by means of cement 24 as shown in Figs. 5 through 7. In this case a perforated plate 25 is provided with an upwardly extending tongue 26 which is adapted to be passed through the elongate aperture 11a and bent over as shown in Fig. 5. In installing this type of mounting means, it is preferred to place the cement on the floor, insert the tongues of the plate into the slot, position the strip on the floor and locate the plates by the position of the strip. The strip is then removed and the cement is permitted to harden. After the cement is hardened, the anchoring strip is positioned over the tongues and the upwardly extending tongues are folded over as shown in Fig. 5 to securely fasten the anchoring means in place. Further, it will be noted that the downwardly extending nosepiece not only seals the edge of the anchoring means at the floor but also provides clearance under the base to accommodate the plate 25 when the anchoring means is secured thereby.

In the form of the invention shown in Fig. 4 which is preferable for use along walls where protection of the edge of the carpet is not necessary, the base 31 is provided with a plurality of thickened ribs. While the number of ribs may vary, in the illustrated form of the invention, I employ a pair of depending ribs 32, 33 similar to rib 12.

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In the preferred form of the invention the ribs are arranged with one adjacent the rear edge and the other spaced inwardly from the front edge of the base so as to provide a projecting free edge portion 31b spaced above the floor and under which the edge of the carpet may be tucked.

Each of the ribs is provided with a plurality of spaced spikes or nails 34, as shown in Fig. 4, which extend through the ribs and above the base so as to securely bite into or pierce the back of the carpet 15 and hold it in position. The anchoring member of Fig. 4 is provided with apertures 31a in the base similar to those described in connection with Fig. 1 and can be secured by nails 14 or by the cementing clips 25 of Fig. 6 as required.

From the foregoing it will be seen that I have provided a novel anchor strip which can be readily made and assembled and which includes an extruded section of readily bendable material, such as aluminum, brass, plastic or rubber, which can be severed into the desired lengths. The strip is provided with nails or the like which are mounted in ribs in the strip and are stronger than the strip to provide an adequate anchor for the carpet. The anchor strip of the present invention can be readily mounted by being fastened with nails or the like or can be cemented down and anchored in the novel combination disclosed herein. Also, the present invention can be formed as binding strips with protective portions extending over the edge of the strips as are used for exposed edges of carpet, or can be used to anchor the edge of the carpet adjacent the wall.

Variations and modifications may be made within the scope of the claims and portions of the improvements may be used without others.

I claim:

1. Anchoring means for the edge of a carpet comprising an elongate extruded section forming a base adapted to be secured to the floor and having an upper surface to extend under and support the edge of the carpet, said base having at least one longitudinally extending, floor-engaging thickened rib disposed below the upper surface of said base, and metal spikes disposed in said rib and projecting above said base to pierce the back of the carpet, said spikes being stronger than the base and having more resistance to bending than the base to securely hold the carpet edge in position.

2. Anchoring means for the edge of a carpet comprising a metallic base to support the edge of the carpet, said base having at least one downwardly projecting thickened rib forming the rear edge of the base, means for securing the base to the floor comprising spaced apertures in the base and nails passing through the apertures and into the floor, and metal spikes disposed in said rib and projecting above said base to pierce the back of the carpet, said spikes being stronger than the metallic base so as to have considerable resistance to bending and securely hold the carpet edge in position.

3. Anchoring means for the edge of a carpet comprising a metallic base to support the edge of the carpet, said base having at least one downwardly projecting rib, means for securing the base to the floor comprising spaced elongate apertures in the base and perforated plates cemented to the floor and having tongues extending through the elongate apertures and bent over into engagement with the base, said rib having a readily pierced, laterally extending portion and metal spikes disposed in said rib and piercing said laterally extending portion and projecting above said base to pierce the back of the carpet, said spikes being supported by said rib and being stronger than the metallic base so as to have considerable resistance to bending and securely hold the carpet edge in position.

4. Anchoring means for the edge of a carpet comprising a metallic base adapted to be secured to the floor to extend under and support the edge of the carpet, said base having a longitudinally extending, projecting thickened rib, said rib being grooved to provide a readily

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pierced transverse portion, and spaced metal spikes piercing said transverse portion and extending upwardly through the said grooves in the rib and projecting above said base to pierce the back of the carpet, said spikes being gripped by the walls of the grooves and being stronger than the metallic base so as to have considerable resistance to bending and securely hold the carpet edge in position.

5. Anchoring means for the edge of a carpet comprising a metallic base adapted to be secured to the floor to extend under and support the edge of the carpet, said base having a longitudinally extending projecting rib of H-shape cross-section, and metal spikes disposed in said rib at spaced intervals and projecting above said base to pierce the back of the carpet, said spikes passing through the cross-web of the H and being gripped by the legs of the H and being stronger than the metallic base so as to have more resistance to bending than the base and securely hold the carpet edge in position.

6. Anchoring means for the edge of a carpet comprising a base formed of an extruded section of bendable material adapted to be secured to the floor to extend under and support the edge of the carpet, said base having at and forming the rear edge thereof a downwardly projecting rib and having at the forward edge an upwardly and rearwardly extending cover portion adapted to be bent down into overlapped relation with the edge of the carpet, and metal spikes piercing said rib and projecting above said base to pierce the back of the carpet, said spikes being stronger than the metallic base so as to have considerable resistance to bending and securely hold the carpet edge in position.

7. Anchoring means for the edge of a carpet comprising a metallic base adapted to be secured to the floor to extend under and support the edge of the carpet, said base having a longitudinally extending, downwardly projecting rib at the rear edge of the base and a second downwardly projecting rib spaced rearwardly of the front edge and forwardly of the first rib, said ribs engaging the floor and the base between the front edge and second rib being free and spaced above the floor to receive the turned under edge of the carpet, and metal spikes disposed in said ribs and projecting above said base to pierce the back of the carpet, said spikes being stronger than the metallic base so as to have more resistance to bending than the base and securely hold the carpet edge in position.

8. Anchoring means for the edge of a carpet comprising a metallic base adapted to be secured to the floor to extend under and support the edge of the carpet, said base having a longitudinally extending, downwardly projecting rib at the rear edge of the base and a second downwardly projecting rib spaced rearwardly of the front edge and forwardly of the first rib, the base between the front edge and second rib being free and spaced above the floor to receive the edge of the carpet, said ribs being grooved to provide a readily pierced transverse portion, and spaced metal spikes piercing said transverse portions in said ribs and projecting above said base to pierce the back of the carpet, said spikes being stronger than the metallic base so as to have more resistance to bending than the base and securely hold the carpet edge in position.

9. Anchoring means for the edge of a carpet comprising a metallic base adapted to be secured to the floor to extend under and support the edge of the carpet, said base having a longitudinally extending, downwardly projecting rib at the rear edge of the base and a second downwardly projecting rib spaced rearwardly of the front edge and forwardly of the first rib, the base between the front edge and second rib being free and spaced above the floor to receive the edge of the carpet, said ribs being H-shaped in cross-section, and metal spikes disposed in said rib and passing through the cross-web of the H and being gripped by the legs of the H and projecting

above said base to pierce the back of the carpet, said spikes being stronger than the metallic base so as to have more resistance to bending than the base and securely hold the carpet edge in position.

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