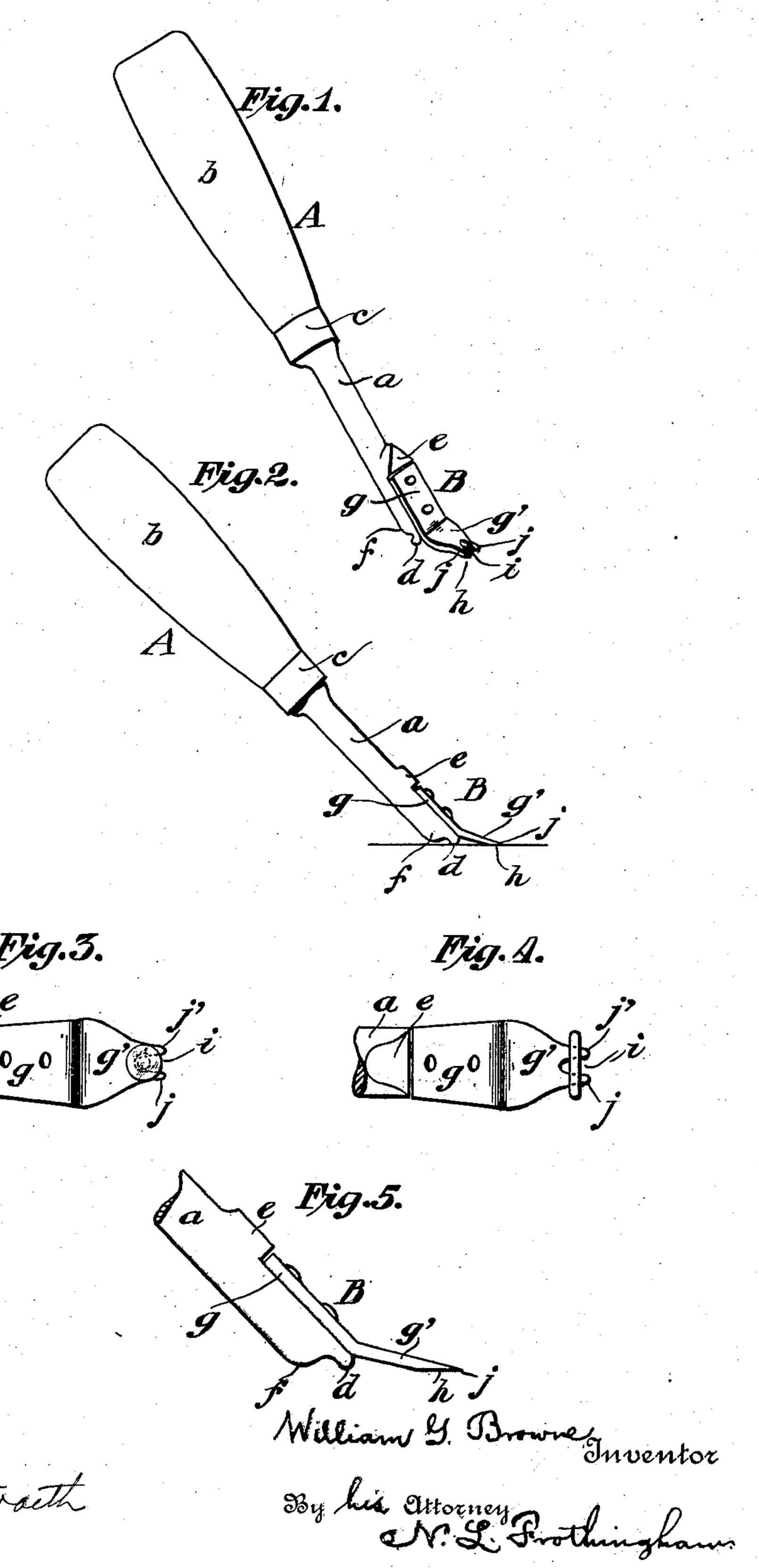
W. G. BROWNE. TACK CLAW.

APPLICATION FILED MAR. 4, 1903.

NO MODEL.



United States Patent Office.

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TACK-CLAW.

SPECIFICATION forming part of Letters Patent No. 742,284, dated October 27, 1903.

Application filed March 4, 1903. Serial No. 146,064. (No model)

To all whom it may concern:

Be it known that I, WILLIAM G. BROWNE, a citizen of the United States, residing at Kingston, in the county of Ulster and State 5 of New York, have invented certain new and useful Improvements in Tack-Claws, of which the following is a specification, reference being had therein to the accompanying drawings, which form a part thereof.

My invention relates to tack-claws especially adapted for drawing carpet and mat-

ting tacks.

The object of my invention is to provide a tack-claw which is capable of drawing both 15 the ordinary headed carpet-tack and the double-pointed matting-tack, which when first applied to a tack of either description will present no sharp edges downwardly to cut into the carpet or matting, which when the 20 lever-handle is forced downward will act to thrust the claw proper slightly forward in a manner to firmly engage the tack and prevent the bending thereof, and which will be comparatively inexpensive to manufacture 25 and durable and efficient in use.

The invention consists in the novel features of construction hereinafter set forth and described, and more particularly pointed

out in the claims hereto appended.

Referring to the drawings, Figure 1 is a perspective view of a tack-claw embodying my invention. Fig. 2 is a side elevation thereof. Fig. 3 is an enlarged view of the lower portion thereof, illustrating the appli-35 cation of the claw to the ordinary headed carpet-tack. Fig. 4 is a similar view showing the application of the claw to the ordinary double-pointed matting-tack; and Fig. 5 is an enlarged side elevation of the said lower por-40 tion, illustrating the mode of operation of the claw which prevents the cutting into the carpet or matting.

Like letters refer to like parts throughout

the several views.

My tack-claw comprises, broadly, a leverhandle A and a claw-plate B, secured to the lower end of said handle A-a general arrangement well known in this art—the invention residing in that particular construc-50 tion and arrangement of these elements which

imparts to the device its adaptability for and capability of performing the functions here-

inafter set forth.

The handle A consists of a metal shank a, a wooden grip b, and a ferrule c, reinforcing 55 the end of the latter. The shank a at its lower end is provided with a downwardlyprojected fulcrum d, the bearing-surface of which extends transversely of the said shank. On the upper face of said shank I form an 60 abutment or shoulder e, the portion of the shank below the said shoulder presenting a plane surface to facilitate the attachment of the claw-plate. Directly above the said ful- $\operatorname{crum} d \operatorname{I} \operatorname{provide} \operatorname{a} \operatorname{rolling} \operatorname{fulcrum} f$, the $\operatorname{arc} \operatorname{of}$ 65 which is of a radius to contact with the floor and vary the leverage slightly when the tack is partly withdrawn, and thus thrust the claw slightly forward toward the end of this operation and also avoid the bending of the tack. 70

Mounted on the shank a below the shoulder e is an angular plate comprising the sides g and g', extending at an obtuse angle to each other of a degree to cause the lower edge of the side g' to terminate on substantially the 75 same plane as the bearing-surface of the fulcrum d. This plate is of hardened material, as steel, to give it the required rigidity and strength. The lower face of the side g' is beveled away, as at h, to present down-80 wardly a flat horizontal surface when it and the fulcrum d are simultaneously pressed against a flooring or covering thereof, and to form a thin edge on the plate to facilitate its insertion beneath the head of a tack. The 85 outer end of the side g' is reduced laterally in width and the reduced portion is slotted centrally, a slot i of gradually-decreased width preferably being made to form the claws j,j'. The outer sides of these claws are 90 parallel, or substantially so, to a point approximately conterminous with the slot i, and above this point the width of the claw-plate is gradually increased, so as to impart thereto the requisite weight and strength to with- 95 stand the strain occurring at a point adjacent to the fulcrum-points d and f.

The parts of the tack-claw are assembled in the following manner, the various elements having been finished separately: The 100 shank a is first affixed to the grip b, or, if desired, these parts may be made entirely of metal and in a single casting. The claw-plate b is then attached to the shank a, preferably by rivets, the shoulder e serving as a guide to regulate the adjustment of this plate, and thereafter by preventing movement thereof, either vertical or rotary, to prevent a shearing strain on the bolts and an instability while in use

to ity while in use. The operation of the tack-claw is substantially the same whether it is used in drawing a headed tack, as shown in Fig. 3, or a doublepointed tack, as shown in Fig. 4. In either 15 case the fulcrum d and claws jj' are simultaneously brought to bear upon the flooring or the covering therefor close to the head or cross-head of the tack, and the thin edge of the said claws is inserted beneath the same 20 and forced thereunder, the slight wedging effect produced by the pitch of inclination of the side g' serving merely to start the tack sufficiently to insure a firm grip thereon by the claws. The lever-handle A is then 25 pressed downward, oscillating upon the fulcrum d. The initial movement of the claws j j' is insufficiently diverted from the vertical to bend the tack, and as the lever-handle descends the rolling fulcrum f contacts with 30 the floor, and subsequent movement is with this as a center. This varies the leverage to an extent to ease up the latter portion of the operation and also has a tendency to thrust the claw forward sufficiently to compensate 35 for the slight rotary movement of the said claws. Hence the movement of the claws will be substantially vertical throughout the operation. When the claw is used to draw the ordinary headed tack, the point passes 40 into the slot i and the claws j j' engage the head of the tack. When the claw is used to draw a double-pointed tack, both claws j j' pass directly beneath the cross-head which |

It will be observed that by reason of the horizontal surface presented by the beveled portion h and the horizontal alinement of this surface with the bearing-face of the fulcrum d the depression of the claws to admit of the insertion thereof beneath the tack does not result in the presentation downwardly of a sharp edge against the flooring, carpet, or matting and that therefore the tack-claw cannot cut these in withdrawing tacks therefrom. It will also be observed that the adaptability

of the claw to use for both headed and dou-

they engage. In either case the mode of

45 operation of the claw will be seen to be sub-

ble-pointed tacks, as above described, is ac-60 complished without rendering the device cumbersome or sacrificing its appearance or strength, sufficient metal being employed at those points where the greatest strains occur to withstand such.

It is not my intention to limit the invention of to the precise details of construction heretofore described, as it is apparent that these details may be varied without departing from the spirit and scope of the invention.

Having described the invention, what I 70 claim as new, and desire to have protected

by Letters Patent, is—

1. As a new article of manufacture, a tack-claw comprising a lever-handle having a downwardly-projected fulcrum at its lower 75 end and a claw-plate consisting of an angular plate the sides of which are respectively secured to said handle and projected downwardly and forwardly, said last-mentioned side being laterally reduced toward its outer 80 end and slotted centrally of this reduced portion and beveled on the under side thereof on substantially the same plane as the bearing-face of said fulcrum.

2. As a new article of manufacture, a tack- 85 claw comprising a lever-handle having a downwardly-projected fulcrum at its lower end and a rolling fulcrum above said firstmentioned fulcrum, and a claw-plate consisting of an angular plate the sides of which respectively are secured to said lever-handle and projected downwardly and forwardly, said last-mentioned side being laterally reduced toward its outer end and slotted centrally of this reduced portion and beveled on 95 the under side thereof on substantially the same plane as the bearing-face of said fulcrum.

3. As a new article of manufacture, a tack-claw comprising a lever-handle having a 10 transverse shoulder near its lower end, a downwardly-projected fulcrum at its lower end, a rolling fulcrum above said first-mentioned fulcrum, and a claw-plate consisting of an angular plate, the sides of which respectively are secured to said lever-handle adjacent to said shoulder, and projected downwardly and forwardly, said last-mentioned side being laterally reduced toward its outer end and slotted centrally of this reduced portion and beveled on the under side thereof on substantially the same plane as the bearing-face of said first-mentioned fulcrum.

In witness whereof I have hereunto affixed my signature, this 25th day of February, 1903, 115 in the presence of two witnesses.

WILLIAM G. BROWNE.

Witnesses:

V. B. VAN WAGONEN, GEORGICE SNYDER.