

(No Model.)

F. G. WHYTAL.

TACK PULLER.

No. 347,019.

Patented Aug. 10, 1886.

Fig1.

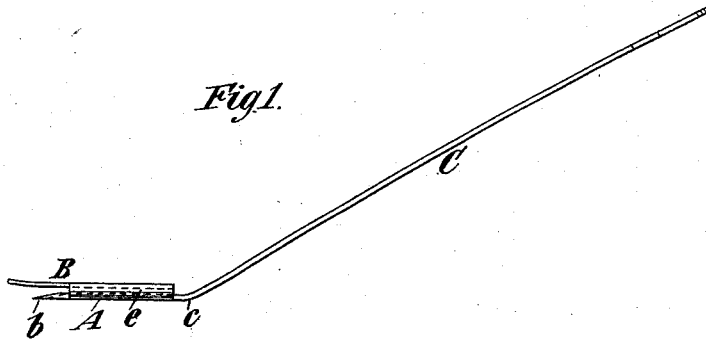


Fig2.

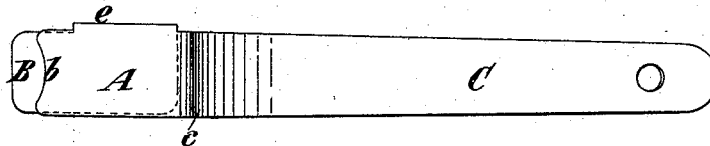


Fig3.

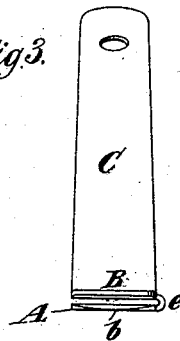
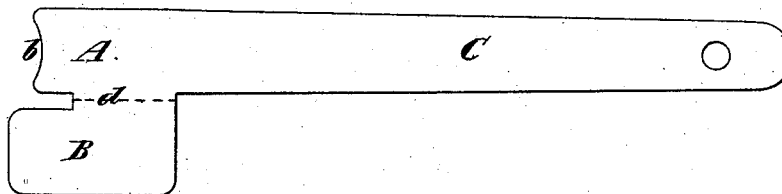


Fig4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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TACK-PULLER.

SPECIFICATION forming part of Letters Patent No. 347,019, dated August 10, 1886.

Application filed April 21, 1886. Serial No. 199,571. (No model.)

To all whom it may concern:

Be it known that I, FRANK G. WHYTAL, of the city and county of New York, in the State of New York, have invented a new and useful
5 Improvement in Tack-Pullers, of which the following is a specification.

My invention relates to a device which may be conveniently employed by draftsmen for pulling or drawing from a drawing-board the
10 thumb-tacks, whereby a drawing is secured thereon. Such an implement is necessarily provided with a wedge-like blade for insertion under the head of a tack, and when the tack is pulled or drawn out by pressure it is liable to
15 be thrown to a distance and lost, or give one the trouble of picking it up.

The object of my invention is to provide such an implement with a guard which is fixed relatively to the blade, and will pass over the head
20 of the tack at the same time that the wedge-shaped blade is forced under the head, and by more or less overlying the head will prevent the tack from being thrown upward and away by the force which is applied to draw the tack.

In the accompanying drawings, Figure 1 represents a side view of an implement embodying my invention. Fig. 2 is an inverted plan representing the under side of the implement. Fig. 3 is an end view, and Fig. 4 represents a
30 blank of sheet or plate metal from which the implement may be made.

Similar letters of reference designate corresponding parts in all the figures.

A designates the blade, which at the front is wedge-shaped, as shown at *b* in Fig. 1, and is preferably concaved at the front edge, as
35 shown in Fig. 2, so that it will not be liable to slip off laterally from a tack.

C designates a handle, which projects outward, and is joined to the blade by a bend, *e*, which, in drawing the tack, forms the fulcrum for the implement to swing on.

Above the blade A, and fixed relatively to the blade at a little distance only therefrom, so as to afford sufficient room for the reception of
45 a tack-head between it and the blade, is a guard, B, which, when the blade A is inserted under a tack-head, overlies the head and prevents the tack from being thrown a distance
50 by the force used to withdraw it, as it is liable to when it leaves the board, if no such guard

be used. The front edge of this guard projects, preferably, beyond the wedge-shaped edge *b* of the blade A, so as to nearly or quite overlie the head of a tack; but the guard will still
55 serve its purpose in a more or less perfect degree, even if it were not prolonged beyond the wedge-like edge of the blade A.

For convenience in manufacture, I prefer to form the blade A, the guard B, and the handle C all integral from one piece or blank of
60 sheet or plate metal, and in Fig. 4 I have represented a blank of the required form. In this figure I have used the same letters of reference to indicate the parts or portions which
65 form the several elements of the implement as I have used them in the finished device, and the blank is to be bent upon the dotted line *d* shown in Fig. 4, in order to bring the guard
B into position parallel with and over the
70 blade A, and the blade and guard will then be joined or connected by the bend *e* at the side of the blade and guard, as shown in Fig. 3.

The implement may be made of steel or hard brass, and in lieu of the flat handle shown it
75 may have a handle of any other form or construction.

One of the principal objections to the use of tack-pullers as heretofore made is, that in pulling or drawing thumb-tacks there was
80 great liability of the tack being thrown off to a considerable distance, unless it were taken hold of or guarded by the fingers. By my invention I provide at a very slight additional expense an implement which is effective for
85 drawing tacks, and which guards the heads and prevents the tacks from being thrown to a distance, even though no care be taken to this end.

What I claim as my invention, and desire to
90 secure by Letters Patent, is—

1. The implement for pulling thumb-tacks herein described, consisting of the wedge-shaped blade A, for insertion under the tack-head, and the guard B above the blade and in
95 fixed relation thereto, for preventing the tack from being thrown to a distance when withdrawn, substantially as herein described.

2. The implement for pulling thumb-tacks herein described, consisting of the wedge-shaped blade A and the guard B, overlying the
100 blade in fixed relation thereto and projecting

beyond the end thereof, substantially as herein described.

3. The implement for pulling thumb-tacks herein described, consisting of the wedge-shaped blade A and the overlying guard B, approximately parallel with and formed integral with the blade, and connected thereto by a

bend, *c*, at the side of the blade and guard, substantially as herein described.

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Witnesses:

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