

(No Model.)

J. WHITE.
WIRE NAIL.

No. 549,555.

Patented Nov. 12, 1895.

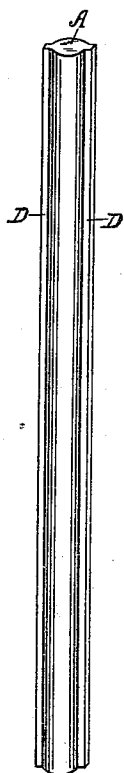


Fig. 1.

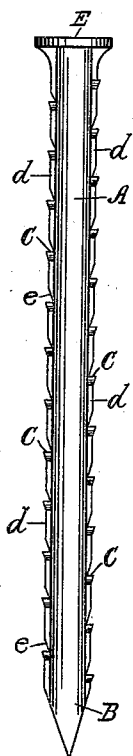


Fig. 2.

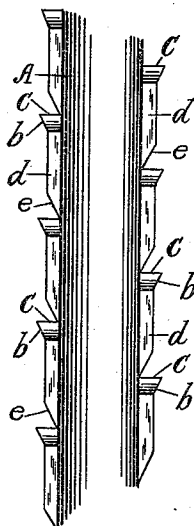


Fig. 3.

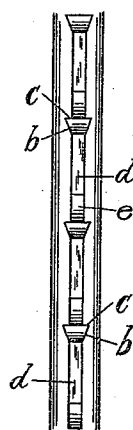


Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN WHITE, OF LONDON, CANADA.

WIRE NAIL.

SPECIFICATION forming part of Letters Patent No. 549,555, dated November 12, 1895.

Application filed January 5, 1894. Serial No. 495,767. (No model.)

To all whom it may concern:

Be it known that I, JOHN WHITE, a subject of the Queen of Great Britain, and a resident of the city of London, in the Province of Ontario, Canada, have invented certain new and useful Improvements on Wire Nails, of which the following specification, taken in connection with the accompanying drawings, forms a full, clear, and exact description.

This invention relates to a sharp narrow piece of metal for attaching objects by driving into or through them; and it consists of the improved construction of the same, as will be hereinafter first fully set forth and described, and then pointed out in the claim, reference being had to the accompanying drawings, wherein—

Figure 1 is a perspective view of a wire nail embodying my invention at a primary stage of its manufacture, showing the body rolled to the required size and shape and with the opposite longitudinal ribs rolled thereon. Fig. 2 is a side elevation of the completed wire nail embodying my invention. Fig. 3 is an enlarged detail side elevation of a portion of the body of the wire nail shown in Fig. 2. Fig. 4 is another enlarged detail view of a portion of the body of the wire nail shown in Fig. 2, looking at it at right angles to the view shown in Fig. 3.

A designates the body of a wire nail, formed at opposite sides with longitudinal ribs or flanges D D, running the full length of said body, in which ribs the barbs C C are formed.

B designates the sharp entering-point of the nail, and E the head.

The ribs D D are rolled or drawn on said body when rolling the latter to the required size and shape, and the body A is preferably formed elliptical; but it may be formed of any suitable size or shape and of steel, iron, or other suitable material.

e e are indentations formed in the ribs D D, and *d d* are subdivisions or elongated portions into which the ribs D D are divided by the indentations *e* for the purpose hereinafter stated. The barbs C C are formed in said ribs D D at certain intervals, as shown in Fig. 2 of the accompanying drawings, thereby leaving an elongated portion *d* and inclined portion *b* as a support to each barb

C. These barbs C C are formed by making indentations *e* in the ribs D D. The latter are indented and the metal driven forward and thrown up to form an overhanging portion around one end of each of the portions *d* or subdivisions of the ribs D. By thus indenting the ribs D to form the barbs C no part of said ribs are cut away or removed. A portion of the rib is simply raised and driven forward to form the overhanging portion or barb C, and this overhanging portion is inclined upward from the portion *d* from three sides, as shown at *b* in Figs. 3 and 4. This construction gives an elongated rigid extension *d* and inclined portion *b* to each barb to sustain and strengthen the latter and to avoid and completely prevent the barbed portion from being broken off when inserting or removing the nail. At the same time the ribs D D provide a convenient means in which to form the barbs C C without cutting into the body or shank A, and thereby avoid and completely prevent the weakening of said body.

This nail is provided with the barbs C C for the purpose of completely preventing it from being accidentally retracted or withdrawn by the warping or straining of the object or objects, or from any other cause, after being driven therein.

By rolling the body A and the ribs D thereon, as set forth, a very strong and tough body is provided for the nail, and by forming the body with a sharp point B it is readily and easily driven into an object or objects, and when driven therein the barbs C C completely prevent it from being accidentally retracted or withdrawn; and by forming the barbs C C at intervals, as shown and described, and thereby leaving an elongated portion or subdivision *d* of the rib D and the inclined portion *b* as a support to each barb C, the barb is strengthened and protected from being bent up parallel with and against the body A, and by forming the barbs C with the inclined portion *b* inclined faces only are presented to the object when driving the nail therein. The barbs C are thereby completely protected from being broken off or otherwise damaged, particularly when being driven, thereby providing a sure-grip wire nail.

Having thus described my invention, I claim—

5 A nail having ribs or flanges formed upon its sides, and which ribs or flanges are indented at intervals, the metal displaced in forming the indentations being turned backward and outward to form barbs, the points of which are flattened or broadened out so as to

be wider than the ribs or flanges from which they are formed, substantially as shown. 10

In testimony whereof I have signed in the presence of the two undersigned witnesses.

JOHN WHITE.

Witnesses:

P. J. EDMUNDS,
S. MCBAIN.