

(No Model.)

D. O. CLARK.

SHOE NAIL.

No. 337,814.

Patented Mar. 16, 1886.

Fig. 1.

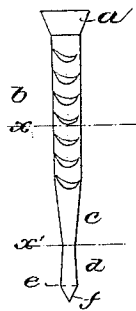


Fig. 2.

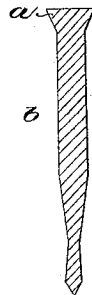


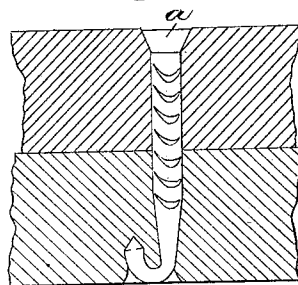
Fig. 3.



Fig. 4.



Fig. 5.



Witnesses.
John F. C. Prinkert
Thos L. Emery

Inventor.
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UNITED STATES PATENT OFFICE.

DAVID O. CLARK, OF HAVERHILL, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO EDWARD E. DOW, OF SAME PLACE.

SHOE-NAIL.

SPECIFICATION forming part of Letters Patent No. 337,814, dated March 16, 1886.

Application filed January 8, 1886. Serial No. 187,992. (No model.)

To all whom it may concern:

Be it known that I, DAVID O. CLARK, of Haverhill, county of Essex, and State of Massachusetts, have invented an Improvement in Shoe-Nails, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

My invention has for its object the production of a nail possessing novel and special features of construction to adapt it to be clinched, the said nail being so constituted that the crippling or bending will always begin or proceed from a given point, whereby the bending or clinching will be commenced at a predetermined distance from the point of the nail.

The invention is a nail consisting, essentially, of a head, a main body portion substantially straight but of slightly oval form in cross-section and provided with serrations or corrugations, and a reduced portion provided with a weakened or crippling section and a beveled or conical point. In the reduced body portion the metal tapers from the main body portions to what is termed herein as the "crippling section," which is of less sectional area than any other part of the nail, excluding the point, from which section the metal gradually increases in sectional area, so that said reduced body portion as a whole constitutes in an enlarged view two cone frustums with their smaller ends adjacent each other, surmounted by a conical point. In view of such construction the conical point readily finds and enters an awl-hole, and the reduced body portion is easily driven therein until the corrugated main body portion is reached, when the latter must be driven with some force. Furthermore, upon the nail being driven the conical point in striking a clinching-surface assists in the crippling or bending of the nail at the crippling section, the bend being confined to that portion of the nail between the said crippling section and the point, while the main body portion remains in its normal condition. The reduced portion of the nail is slightly oval in cross-section, the major axis of the oval being

at right angles to the major axis of the oval main body portion, whereby the nail is prevented in great measure from turning or working loose in an awl-hole.

Figure 1 in elevation shows a nail embodying my invention; Fig. 2, a longitudinal section thereof; Figs. 3 and 4, cross-sections in the line x and x' ; and Fig. 5 shows the nail as clinched at the under side of the material.

The nail consists of the head a , the corrugated or serrated main body portion b , and the reduced body portion made up of the tapered part c , the crippling section d , the enlarged portion e of gradually-increasing sectional area from the crippling section, and the conical point f . The main body portion b is slightly oval in cross-section, and the reduced body portion is constructed likewise with the major axis of one at right angles to that of the other, as shown in Figs. 3 and 4.

I claim—

1. A nail consisting, essentially, of a head, a straight main body portion of substantially the same sectional area throughout its length, and a reduced body portion comprising a tapered part, c , the crippling section d , the enlarged portion e , and a point, as and for the purpose set forth.

2. As an improved article of manufacture, a nail consisting, essentially, of a head, the corrugated main body portion b , of substantially oval form in sectional area, and the reduced body portion of substantially oval form in cross-section, the major axis of one oval being at right angles to that of the other, the said reduced body portion comprising the tapered part c , the crippling section d , the enlarged portion e , and the conical point f , all substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

DAVID O. CLARK.

Witnesses:

G. W. GREGORY,
F. CUTTER.