

E. BOLEY.  
 ROOFING NAIL.  
 APPLICATION FILED NOV. 29, 1920.

1,435,134.

Patented Nov. 7, 1922.

Fig. 1.

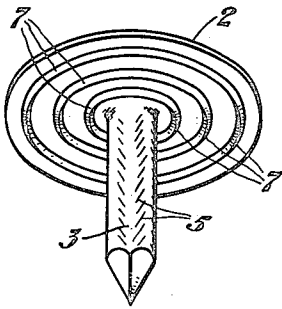


Fig. 3.

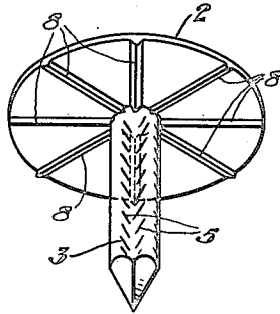


Fig. 5.

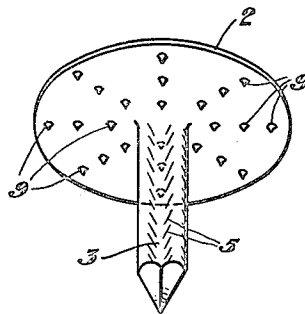


Fig. 2.

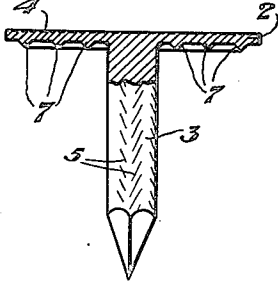


Fig. 4.

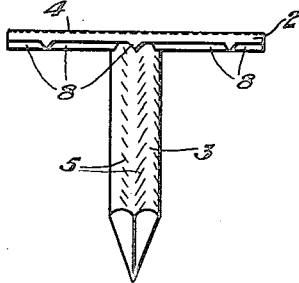


Fig. 6.

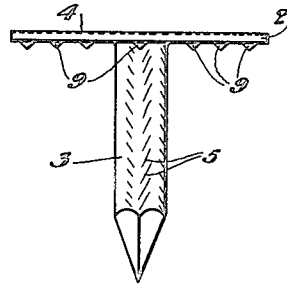
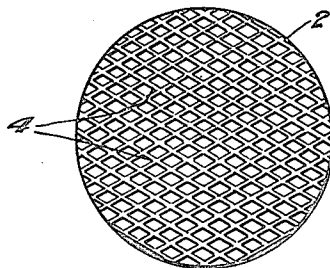


Fig. 7.



Witnesses  
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Inventor:  
 Ernst Boley  
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 Atty.

# UNITED STATES PATENT OFFICE.

ERNST BOLEY, OF CLEVELAND, OHIO.

## ROOFING NAIL.

Application filed November 29, 1920. Serial No. 427,109.

*To all whom it may concern:*

Be it known that I, ERNST BOLEY, a citizen of the United States, and resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Roofing Nails, of which the following is a specification.

This invention relates to roofing nails, and more particularly to roofing nails having large diameter heads for use in holding down felt paper, composition roofings, and the like.

The principal object of my invention is the provision of such a nail having a head of such size that it will firmly grip and hold the paper or other roofing material without the use of auxiliary devices, such as the metal caps heretofore used.

Another object is to form a nail of this class that will form a water tight seal with the roofing when driven home.

Still another object is to form a nail of this class that will have a shank of comparatively small diameter with relation to the head.

Other objects and advantages will be apparent from the following specification and claims, and will be illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of one form of roofing nail made in accordance with my invention, and having concentric sealing rings on the under side of the head.

Figure 2 is a sectional elevation of the nail of Figure 1.

Figure 3 is a perspective view of a modified form of nail made in accordance with my invention, and having radially disposed ribs on the under side of the head.

Figure 4 is a sectional elevation of the nail of Figure 3.

Figure 5 is a perspective view of still another modified form of nail made in accordance with my invention, and having concentric rows of points on the under side of the head.

Figure 6 is a sectional elevation of the nail of Figure 5.

Figure 7 is a top plan view of the nail head.

The drawings are shown on a greatly enlarged scale for the sake of clearness.

Referring particularly to the drawings, the numeral 2 designates the head of the nail having an integral shank 3 which is approximately at least one-fifth the diameter

of the head 2. The head 2 is provided with the usual roughened surface 4 on its outer surface, and the shank 3 is provided with the usual roughened surfaces 5.

The under side of the head is provided with a plurality of sharp projections adapted to sink into, and firmly engage the roofing.

In the form of nail shown in Figures 1 and 2, the projections are in the form of integral concentric rings 7, three being shown in the drawings, although one or more may be used as desired. The rings 7 are substantially triangular in cross-section, thus presenting a sharp surface to the roofing.

The concentric rings 7 will sink into the roofing when driven home, thereby forming concentric water seals, and also serving to more firmly hold to the roofing.

The form of nail shown in Figures 3 and 4 is similar to the form shown in Figures 1 and 2, with the exception that the projections on the under side of the head are in the form of radially disposed ribs 8 which are substantially triangular in cross-section, thus presenting a sharp surface to the roofing.

The ribs 8 are adapted to firmly engage and hold down the roofing, and are in such close proximity to each other that they will serve to press down the entire surface of roofing under the head in close contact with the roof, thereby forming a tight joint therewith.

The form of nail shown in Figures 5 and 6 is similar to that shown in Figures 1 and 2, with the exception that the projections on the under side of the head are in the form of concentric rows of sharp projecting points 9 which firmly engage the roofing.

As the nails are driven home the points 9, due to their close proximity, will form continuous concentric rings of depressions in the roofing, thus forming a water-tight joint or seal.

I claim:—

1. A roofing nail for fastening roofing felt and similar covering in place, comprising a shank portion, one end of said shank being pointed and the other end being upset to form an integral head portion, the diameter of said head being approximately five times the diameter of said shank, said head having its upper face checkered and its bottom face provided with sharpened projections adapted to be driven into said cover-

ing, whereby a water seal will be formed to prevent water flowing under said head and into the aperture formed by said shank.

2. A roofing nail for fastening roofing felt and similar covering in place, comprising a shank portion, one end of said shank being pointed and the other end being upset to form an integral head portion, the diameter of said head being approximately five times the diameter of said shank, said head having its upper face checkered and its bottom face provided with a plurality of in-

tegral, concentric, projecting sealing rings, said rings being substantially triangular in cross section so as to present a sharp surface to the roofing material, whereby a plurality of concentric water seals are formed which prevent water flowing under the head of the nail and through the aperture formed by the shank.

In testimony whereof, I have hereunto signed my name.

ERNST BOLEY.