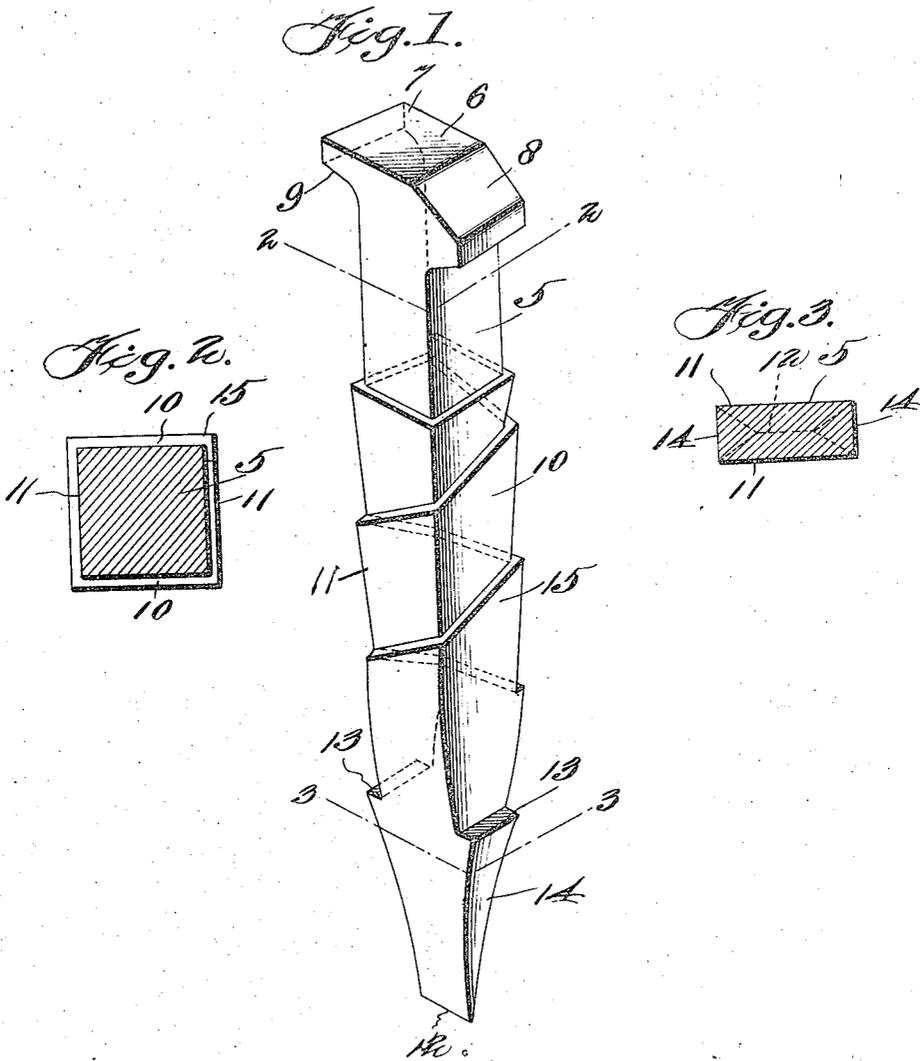


A. MAKLEY.
SPIKE.
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1,168,088.



Witnesses
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SPIKE.

1,168,088

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALEXANDER MAKLEY, a citizen of Hungary, residing at Saginaw, in the county of Saginaw and State of Michigan, have invented certain new and useful Improvements in Spikes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to spikes and more particularly to a device of this character especially designed for securing railway rails to ties and for similar purposes.

The invention has for its object to provide a spike of improved and simplified construction embodying means for reliably anchoring the spike against removal from the tie or other object into which it is driven.

Another object is the provision of an improved railway spike including a tapered shank and a spiral shoulder extending from adjacent the end thereof to a point adjacent the opposite ends, each of the convolutions of the shoulder being of substantially rectangular formation and constituting anchoring means designed to reliably secure the spike against removal.

Another object is the provision of a spike including a shank rectangular in cross section and having two of the four faces thereof tapered to define a cutting edge at one end thereof to facilitate setting of the spike, a pair of oppositely directed shoulders being formed upon the substantially parallel side faces of the shank adjacent the cutting edge to further insure against the removal of the spike.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts as will be hereinafter specifically described, claimed and illustrated in the accompanying drawing, in which:

Figure 1 represents a perspective view of the improved spike. Fig. 2 represents a transverse sectional view on the line 2-2 of Fig. 1, and Fig. 3 represents a transverse sectional view on the line 3-3 of Fig. 1.

Referring to the drawing in detail, wherein similar reference numerals designate corresponding parts throughout the several

views, the numeral 5 designates the shank having a head 6 at one end thereof including oppositely directed lips 7 and 8, the lip 7 having an inclined or beveled under surface 9 adapted for engagement with the inclined upper surface of the base of a rail, and the lip 8 having a plain under surface adapted for engagement with the top surface of a railway tie. The front and rear faces 10 and side faces 11 of the shank are disposed in substantially parallel relation throughout the major portion of their length, and the side faces 11 opposite the head 6 are tapered and converge to define a relatively wide cutting edge 12 at the end of the shank opposite the head 6.

Adjacent their lower extremities the front and rear faces 10 of the shank are formed with laterally projecting shoulders 13, and the portions 14 of the faces 10 intermediate the shoulders 13 and the cutting edge 12 are tapered.

The side faces of the spike shank are formed with a substantially spiral shoulder 15 extending at right angles to said side faces from a point adjacent the shoulders 13 to a point adjacent the head 6. The spiral shoulder 15 is gradually decreased in pitch toward the headed end of the spike and each convolution thereof is substantially rectangular and is designed to cooperate with the shoulders 13 to reliably secure the spike against removal after it has been driven into a tie or other object.

What I claim is:

A spike-including a shank rectangular in cross section having front, rear and side faces, the side faces at one end of the shank being converged to define a cutting edge, a pair of oppositely disposed shoulders formed on the front and rear faces adjacent said cutting edge, and a substantially spiral shoulder extending from a point adjacent said shoulders to a point adjacent the opposite end of said shank and being gradually decreased in pitch from end to end.

In testimony whereof I affix my signature in presence of two witnesses.

ALEXANDER MAKLEY.

Witnesses:

GEO. B. BROOKS,
LOUIS G. NERRETER.