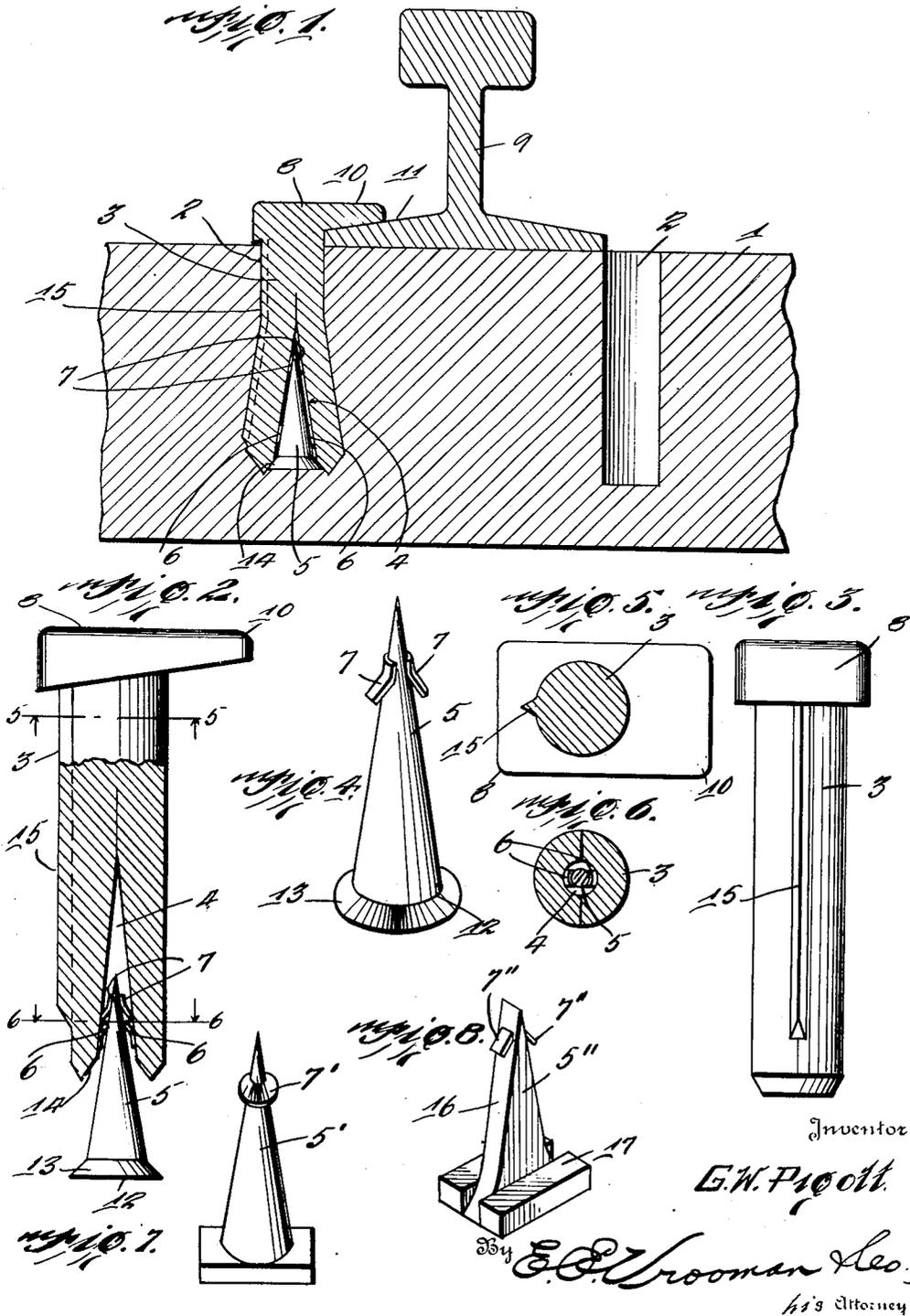


G. W. PIGOTT,
RAILROAD SPIKE.
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1,251,566.

Patented Jan. 1, 1918.



Inventor

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UNITED STATES PATENT OFFICE.

GEORGE W. PIGOTT, OF HARRISONVILLE, OHIO.

RAILROAD-SPIKE.

1,251,566.

Specification of Letters Patent.

Patented Jan. 1, 1918.

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To all whom it may concern:

Be it known that I, GEORGE W. PIGOTT, a citizen of the United States, residing at Harrisonville, in the county of Meigs and State of Ohio, have invented certain new and useful Improvements in Railroad-Spikes, of which the following is a specification.

This invention relates to a railroad spike and has for its principal object the production of a simple and efficient means for locking the spike securely within a railroad tie.

Another object of this invention is the production of a railroad spike provided with a conical opening within its body whereby a wedge may be inserted within said opening so that the spike may be spread within the tie thereby securely locking the same therein.

Another object of this invention is the production of a wedge which is provided with spring lips adapted to engage like spring lips provided upon the inner faces of the conical opening of the spike.

Another object of this invention is the production of a rib provided upon the outer periphery of the spike to prevent the same from rotating.

With these and other objects in view, this invention consists of certain novel constructions, combinations and arrangements of parts as will be hereinafter more fully described and claimed.

In the drawings:

Figure 1 is a vertical section taken through a rail and railroad tie, showing how the spike is used.

Fig. 2 is a side elevation of the device showing the same partly in section.

Fig. 3 is a rear elevation of the spike.

Fig. 4 is a perspective view of the preferred form of the wedge.

Fig. 5 is a section taken on the line 5—5 of Fig. 2, looking in the direction of the arrow.

Fig. 6 is a section taken on the line 6—6 of Fig. 2, looking in the direction of the arrow.

Fig. 7 is a detail perspective view of a modified form of the wedge.

Fig. 8 is also a modified form of a wedge that may be used in connection with this device.

Referring to the drawings by numerals, it will be seen that 1 represents a railroad tie

within which is provided the cylindrical aperture 2. By referring to Fig. 2, it will be seen that this device consists of the spike 3 which is provided with the conical shaped opening 4, which opening 4 is adapted to receive the conical shaped wedge 5.

It will be seen that the opening 4 is provided with the spring lips 6 which are soldered to walls of the opening and that the wedge 5 is also provided with similarly constructed spring lips 7 which are soldered to the wedge. The spring lips 7 are adapted to engage the spring lips 6 whereby the wedge may be held in the proper position for inserting the device in the pocket or aperture 2. This position is clearly illustrated in Fig. 2.

By referring to Fig. 1, it will be seen that the device after being inserted within the aperture 2 is then driven down so that the head 8 of the spike will engage the rail 9 so that the nose 10 of the spike will fit snugly upon the flange 11 of the rail 9. In doing this, it will be seen that the wedge 5 will force the spike to spread within the body of the tie 1 in such a manner that the spike will be securely locked therein. It will be noted that the wedge 5 is provided with the head portion 12 which is provided with the beveled face 13 whereby the beveled edges 14 of the spike will easily pass thereover so as to more firmly lock the said spike within the tie 1.

By referring especially to Fig. 3, it will be seen that the spike is provided with the rib 15 which will prevent the spike from turning within the cylindrical opening 2 as would be the tendency of an ordinary round spike.

By referring to Figs. 7 and 8, it will be seen that two modifications of the wedge have been illustrated which may be used in connection with the described spike. In Fig. 7, it will be seen that the wedge 5' is provided with the spring web 7' soldered thereto which spring web 7' would be adapted to engage the spring lip 6 provided upon the spike 3. The head provided upon this wedge it will be seen, is rectangular so as to prevent the turning of the wedge within the opening, especially where the opening is angular. The modification shown in Fig. 8 is composed of the wedge 5'' and the spring lips 7'' soldered thereto. It will be seen that the body portion of the wedge is provided with the sliding faces 16 so that the device may be

used with a spike provided with an opening corresponding to the shape of the present modification. This wedge is adapted to be used when a square aperture is provided within the tie as is clearly seen from the fact that the same is provided with the square head 17.

From the above description, it will be seen that a very simple and efficient spike has been produced which may be placed within an aperture provided within the tie and driven therein so that the wedge will securely lock the same within the tie. It will also be seen that the spring lips have been provided both upon the wedge and the inner faces of the spike so that the wedge may be held in position when the device is in the beginning of its operation. The spike is also provided with the ribs upon its rear face so that the same will not twist or rotate when the same is being driven into the spike whereby it will be assured that the nose portion of the spike will engage the flange of the railroad tie.

What is claimed is:

1. In a device of the class described, the

combination of a spike with a wedge, said spike provided with an inner opening, spring lips provided upon the inner faces of said opening, spring lips provided upon the faces of said wedge, whereby the lip of said wedge may engage the lips of said spike allowing said wedge to hang from said spike.

2. In a device of the class described, the combination of a spike with a wedge, said spike provided with an inner opening, spring lips provided upon the inner faces of said opening, spring lips provided upon said wedge, a head provided upon said wedge, said head provided with beveled portions, the lower end of said spike provided with beveled portions adapted to register with the beveled portions provided upon the head of said wedge, whereby the spike may be easily driven thereover.

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

GEORGE W. PIGOTT.

Witnesses:

HARRY L. WILLIAMSON,
H. L. POND.