G. WEBER.

SPIKE.

APPLICATION FILED SEPT. 25, 1911.

1,015,106.

Patented Jan. 16, 1912.

2 SHEETS—SHEET 1.

Fig. 1.

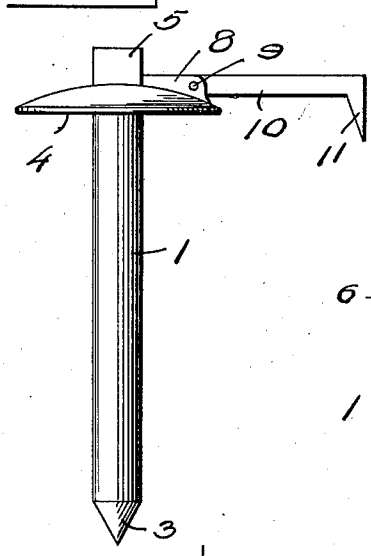


Fig. 2.

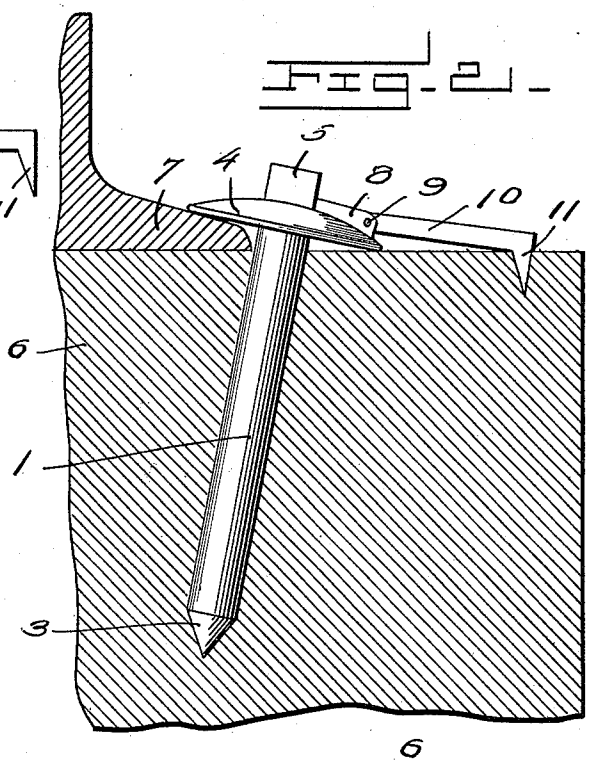
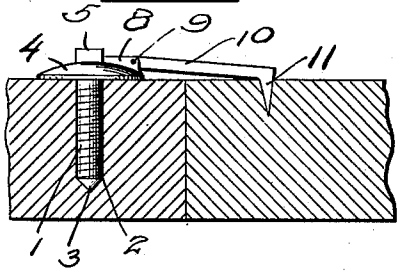


Fig. 3.



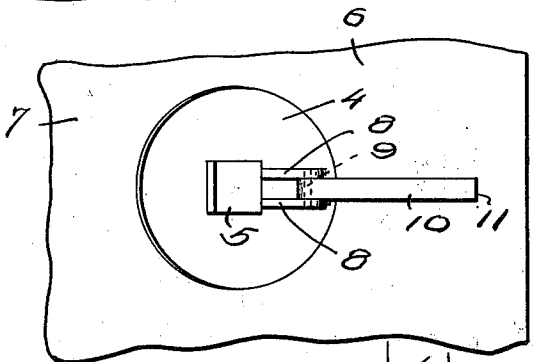


Fig. 4.

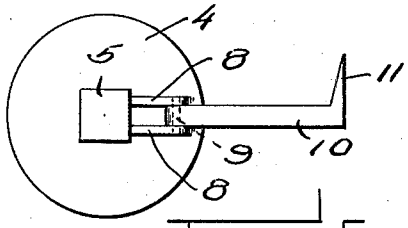


Fig. 5.

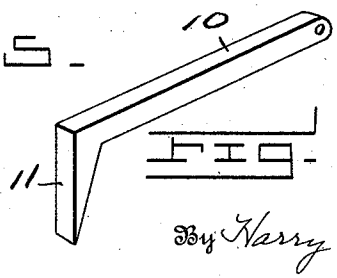


Fig. 6.

Witnesses

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2 SHEETS—SHEET 2.

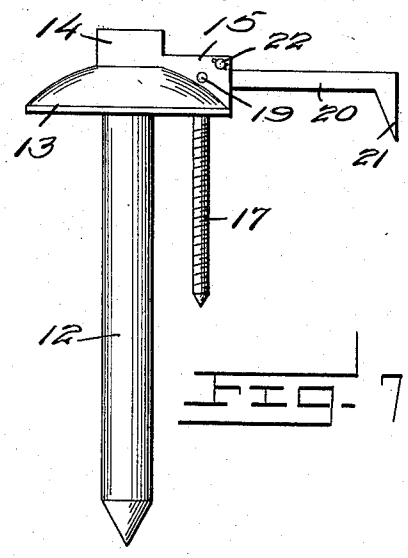

Fig. 7.

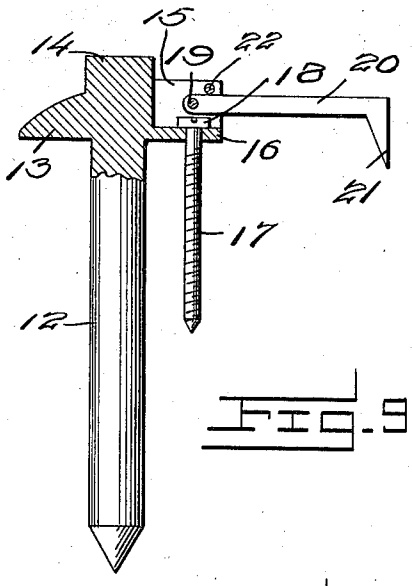

Fig. 9.

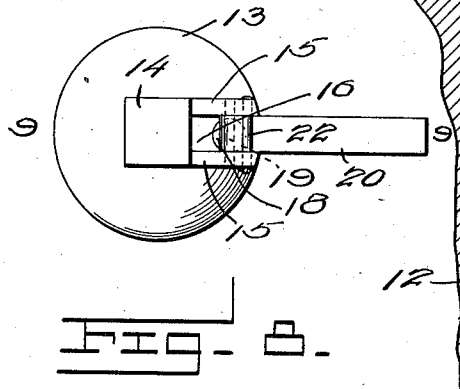

Fig. 8.

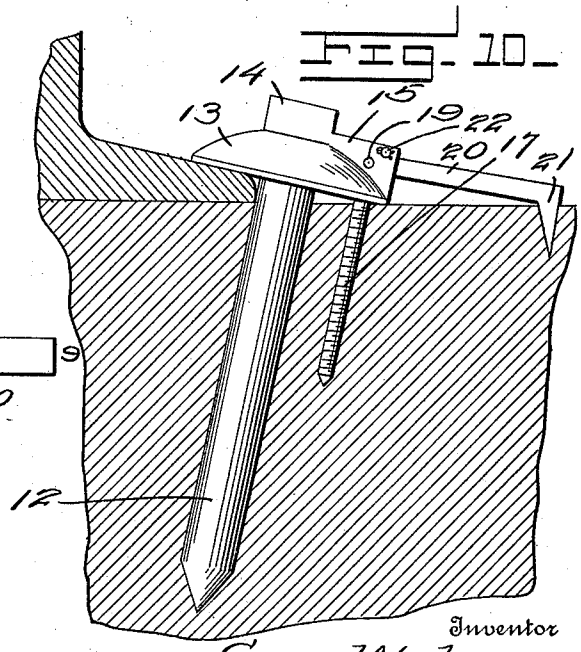

Fig. 10.

Witnesses

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SPIKE.

1,015,106. Specification of Letters Patent. Patented Jan. 16, 1912.

Application filed September 25, 1911. Serial No. 651,176.

To all whom it may concern:

Be it known that I, GEORGE WEBER, a citizen of the United States, residing at Mount Vernon, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Spikes, of which the following is a specification.

My invention relates to improvements in spikes, and has for its leading object the provision of an improved spike or screw which may be readily secured in position and which is provided with improved means for locking or securing the same against withdrawal.

A further object of the invention is to provide a fastening device having a supplemental locking device so secured thereto as to be out of the road when the screw or spike is being secured in position but adapted to be readily moved to secure the fastening device in position.

Other objects and advantages of my invention will be apparent from the following description taken in connection with the accompanying drawings, and it will be understood that I may make any modifications in said construction within the scope of the claims without departing from or exceeding the spirit of the invention.

Figure 1 represents a side elevation of my improved driven or threaded fastening with improved supplemental securing device applied thereto. Fig. 2 represents a side elevation of said spike or fastening device with the supplemental device in depressed position. Fig. 3 represents a sectional view of a pair of boards secured together by my improved driven or threaded fastening with my supplemental locking device in operative position. Fig. 4 represents a top plan view of Fig. 2. Fig. 5 represents a top plan view of a modified construction, and Fig. 6 represents a detailed perspective view of the supplemental locking member. Fig. 7 represents a side elevation illustrating a further modification of my invention. Fig. 8 represents a top plan view of the device shown in Fig. 7. Fig. 9 represents a sectional view on the line 9—9 of Fig. 8, and, Fig. 10 represents a view of said modified device in use.

In the drawings, the numeral 1 designates the shank of my securing device which may be either plain in form or provided with the threads 2 in either case said shank having the tapering entering points 3.

In the preferred form of my invention, I form at the upper end of the shank the enlarged flattened head 4 having rising centrally therefrom the squared portion 5 adapted either to be struck by a hammer or engaged by a wrench for forcing the spike or screw into the wood or tie to which it is to secure an article.

By reference to the drawing, it will be seen that one important use of my improved spike is for securing rail-road rails in position, the shank of the spike being engaged in the tie 6 while a portion of the head 4 engages the foot or basal flange 7 of the rail. Formed integral with the head 4 and the projecting portion 5 are a pair of spaced ears 8, while passing through said ears 8 is a pivot pin 9 upon which is pivotally engaged the inner end of the rod 10 which is provided with the depending triangular point 11 adapted to be forced into the tie or wood in which the securing device is engaged, said bar swinging downward on the pivot and thus entering the wood at an angle to the main securing device, whereby any outward or disengaging movement of the main securing device will tense the bar and the engagement of the said triangular point in the wood will resist the withdrawing movement of the fastening device.

While my supplemental attaching member is thus adapted for use in connection with a driven fastening, it is particularly desirable for use with screw threaded fastenings, the bar being swung upward into position substantially parallel with the shank while the shank is being introduced into the wood and the bar being swung downward after the spike is in position and its point engaged in the wood, this point thus locking the bar and shank against rotative movement and absolutely preventing accidental upward creeping or loosening of the threaded securing device.

In Fig. 5 I have illustrated a modified construction of my invention particularly adapted for use when there is an upstanding projection adjacent the position in which the spike or screw is to be located or in cases when the spike is employed to secure a rail to a tie having a metal engaging socket. In this instance the point 11 of the pivoted bar instead of depending from the bar to engage in the tie projects laterally therefrom and is adapted to be swung downward and have the shank then slightly rotated to cause the point to bear firmly against or bite into an

adjacent projection to both prevent direct upward movement of the driven or threaded fastening and to absolutely prevent loosening rotation thereof.

From the foregoing description taken in connection with the drawings, the construction and use of my improved spike or fastening will be readily understood, and it will be seen that I have provided a simple and efficient fastening device comprising a bar pivotally secured to integral upstanding ears on the head of the main securing device, which bar has a point for engagement with one of the members in which the securing device is engaged to prevent withdrawing movement of said securing device.

In the modified construction illustrated in Figs. 7 to 10 inclusive, I form the shank 12 with the head 13 having the square portion 14 and having spaced lateral projecting ears 15 connected at their base by the portion 16, while passing down through said portion 16 is the spike or screw 17 disposed parallel to the spike shank 12 and having a head 18. Passing through the ears above said head 18 is the pivot pin 19 on which is pivotally engaged the arm 20 bearing the depending prong 21. In the use of this form of my invention I first place the shank 12 in position with the head 13 engaging the rail and then insert in position the screw or spike 17. I then pass the pin 19 through the ears 15 and member 20 to pivot this locking device in position and then drive its prong 21 into the spike. To lock the prong in said position I then pass through the ears near their outer edge the bolt 22 which prevents upward movement of the member 20 on the pivot 19.

I claim:

1. A fastening device, comprising a shank, an enlarged head formed on one end thereof, the other end of said fastening device tapering to an entering point, said head having a squared upstanding portion projecting therefrom and having an upwardly projecting ear formed integral with the head and squared portion, a bar having one end pivotally secured to said ear, and a triangular shaped point formed on the bar at right angles to the body of the bar to engage the member in which the securing device is engaged at a different point and angle to retain the securing device in said member.

2. A securing device comprising a shank having a pointed entering end and having its other end squared, a head formed around the shank below the squared portion, an ear formed integral with the head and squared portion, and an L-shaped locking member pivotally secured to said ear at one end and having its other end pointed to enter the same member as the shank at a different angle from the shank.

3. A securing device, comprising a shank, a head formed on the shank, laterally projecting ears formed on the head and connected at their base, a supplemental fastening member passing downward through the portion connecting the base of the ears, a pivot engaged in the ears, an L-shaped locking member pivotally mounted on the pivot, and a bolt passed through the ears above said locking member whereby the locking member and its pivot prevent upward movement of the supplemental securing device and the bolt prevents upward movement of the locking member on its pivot.

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

GEORGE WEBER.

Witnesses:
THOMAS B. BLOCK,
WM. H. SOMMER.