H. F. SOTTONG.

HORSESHOE.

APPLICATION FILED OCT. 28, 1913.

1,108,014.

Patented Aug. 18, 1914.

Fig. 1.

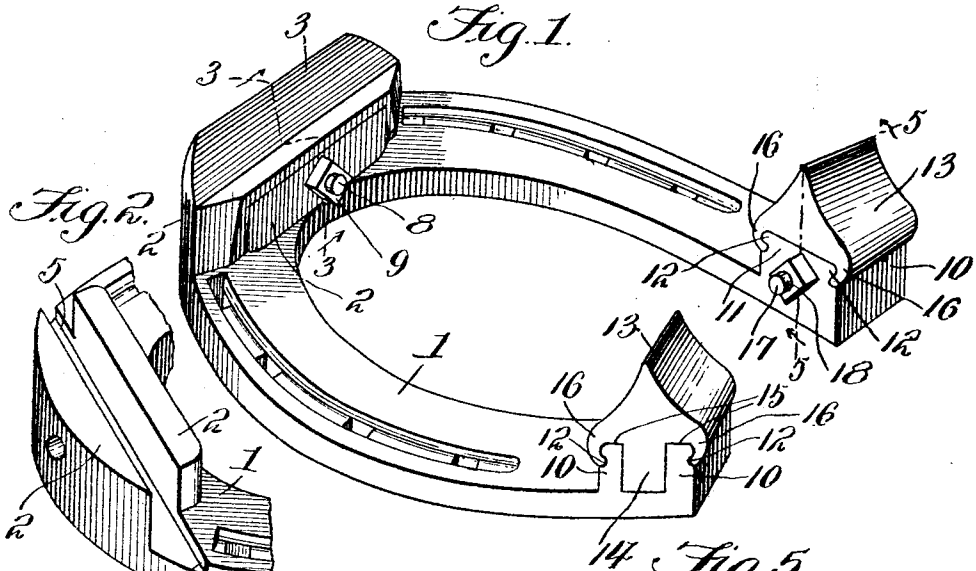


Fig. 2.

Fig. 5.

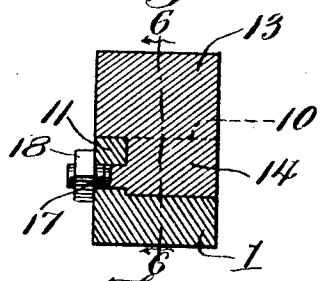


Fig. 3.

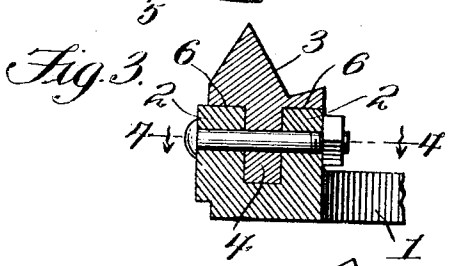


Fig. 4.

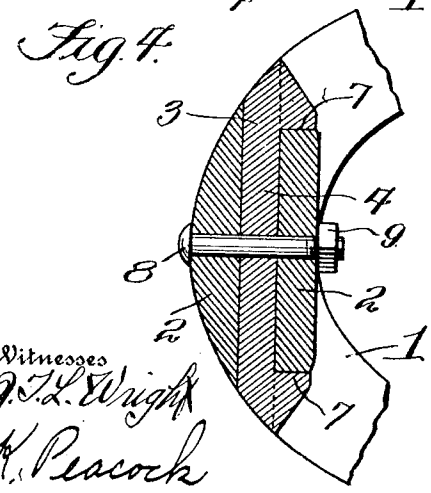
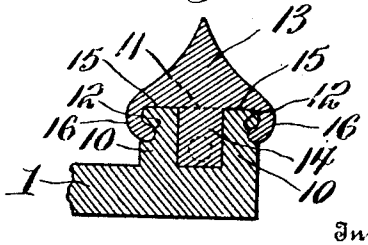


Fig. 6.



Witnesses

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HENRY F. SOTTONG, OF PONCA, OKLAHOMA.

HORSESHOE.

1,108,014. Specification of Letters Patent. Patented Aug. 18, 1914.

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To all whom it may concern:

Be it known that I, HENRY F. SOTTONG, a citizen of the United States, residing at Ponca, in the county of Kay and State of Oklahoma, have invented new and useful Improvements in Horseshoes, of which the following is a specification.

This invention relates to horse shoes and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a horse shoe with means for securely holding calks at the toe and heel portions thereof the said calks being detachable in order than when worn out they may be replaced by new and sharp ones.

With the above object in view the shoe is provided at its forward portion with downwardly disposed spaced flanges having parallel inner walls. A toe calk is adapted to fit between the flanges and is provided with shoulders which bear against the lower edges of the same. The said calk is further provided with shoulders which bear against the ends of the innermost flange and a securing device is passed transversely through the flanges and that portion of the calk which is located between the same. The shoe is further provided at its ends or heels with flanges having parallel inner surfaces and the said flanges are connected together at their inner ends by walls. The flanges at the heel of the shoe are provided at their opposite sides with grooves. Heel calks are provided with shanks which are adapted to slide between the flanges and the said heel calks are provided with shoulders which bear against the edges of the said flanges of the lower edges of the said walls. The said heel calks are further provided with inturned edge portions which slidably engage the grooves. Each heel portion is provided at the inner end of the its shank with a stud which passes transversely through the wall and nuts are screw threaded upon the studs and bear against the inner surfaces of the walls.

In the accompanying drawing:—Figure 1 is a perspective view of the shoe. Fig. 2 is a detailed perspective view of the forward part of the shoe with the toe calk removed. Fig. 3 is a transverse sectional view of the forward part of the shoe cut on the line 3—3 of Fig. 1. Fig. 4 is a sectional view of the forward part of the shoe cut on the line 4—4 of Fig. 3. Fig. 5 is a sectional view of one end of the shoe cut on the line 5—5 of Fig. 1. Fig. 6 is a similar view cut on the line 6—6 of Fig. 5.

The shoe 1 is provided at its forward portion with spaced flanges 2 having parallel inner surfaces. A toe calk 3 is provided with a shank portion 4 which is adapted to fit snugly between the flanges 2 and the edge portion of the said shank fits in a groove 5 provided at the under side of the shoe and which extends between the flanges 2. The toe calk 3 is further provided with shoulders 6 which bear against the edges of the flanges 2 and the said calk is also provided with shoulders 7 which fit against the ends of the rear or innermost flange 2. A bolt 8 passes transversely through the flanges 2 and the shank portion 4 of the calk 3 and a nut 9 is screw threaded upon the rear end of the said bolt. Therefore it will be seen that the toe calk when in position on the shoe is securely held against the movement in any direction with relation to the shoe and by reason of the arrangement of the portions of the calk and shoe and flanges the forward part of the shoe is provided with an ample foundation upon the calk.

The shoe 1 is provided at its ends or heels with flanges 10 having parallel inner surfaces and the inner ends of each set of flanges are connected together by walls 11. The flanges 10 are provided at their outer sides with grooves 12 which are disposed parallel with the edges of the said flanges. Heel calks 13 are provided with shanks 14 which are adapted to fit snugly between the flanges 10 and against the outer surfaces of the wall 11. The said calks 13 are provided with shoulders 15 which bear against the lower edges of the said flanges and wall. The said calks 13 are further provided with inturned edge portions 16 which are slidably received in the grooves 12. The shanks 14 are provided at their ends with studs 17 which pass transversely through the walls 11 and the nuts 18 are screw threaded upon the inner portions of the studs 17 and bear against the inner surfaces of the walls 11. Therefore it will be seen that in order to apply the heel calks 13 to the shoe it is necessary to slide the said calk transversely of the end portions of the shoe into engagement with the flanges 10 and after the said calks have been so positioned upon the flanges the nuts 18 are screwed upon the studs 17 whereby the calks

are held against movement in any direction with relation to the shoe. By removing the nuts 18 from the studs 17 the calks 13 may be readily removed from between the flanges 10 and thus when the said calks have become worn they may be readily detached and new ones substituted in their stead.

Having described the invention what is claimed is:—

A horse shoe having at its forward portions spaced flanges provided with parallel inner surfaces, the said shoe being provided with a transversely disposed groove which lies between the inner surfaces of the flanges, a calk having a shank portion adapted to fit between the flanges, the head portion of the said shank fitting in the said groove, the said calk having shoulders which bear against the edges of the flanges and the said calk, being further provided with shoulders which bear against the ends of the rear flange and which extends from the rear edge engaging shoulder to the under side of the shoe and a securing device passing transversely through the flanges and the shank of the calk.

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

HENRY F. SOTTONG.

Witnesses:
JOHN M. SOTTONG,
H. FABER DALY.