J. H. FAWKES.

HORSESHOE.

APPLICATION FILED OCT. 13, 1908.

922,408. **Patented May 18, 1909.**

Fig. 1.

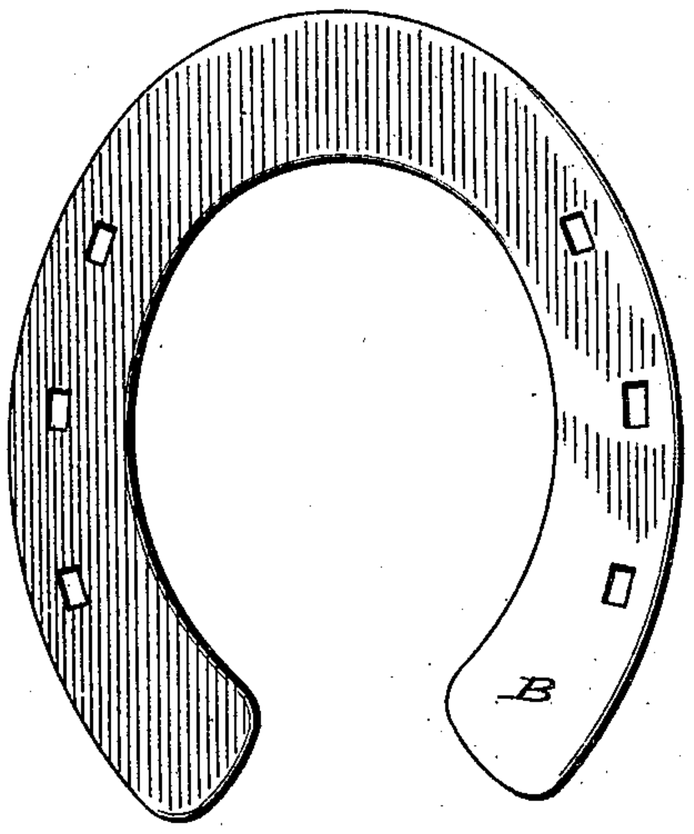


Fig. 2.

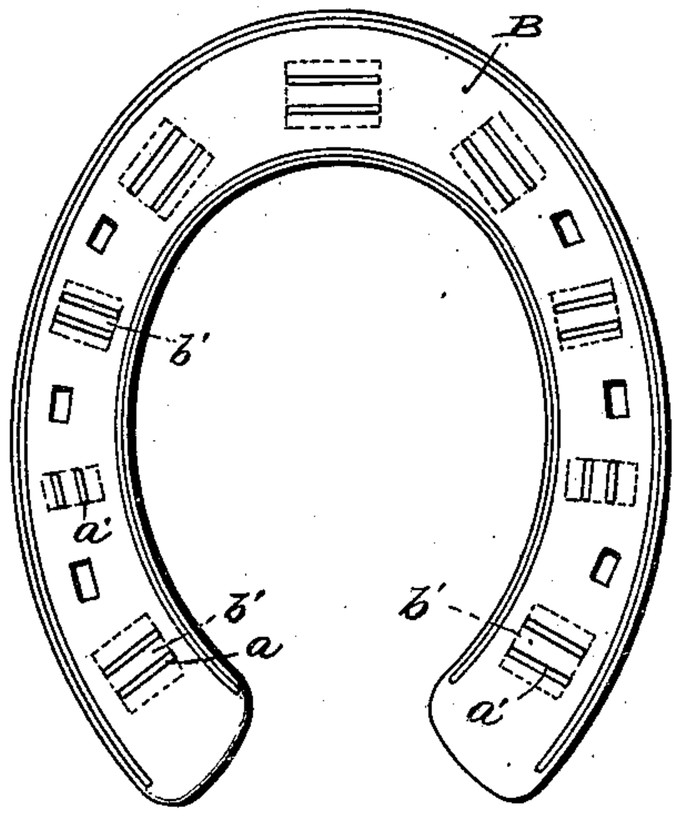


Fig. 3.

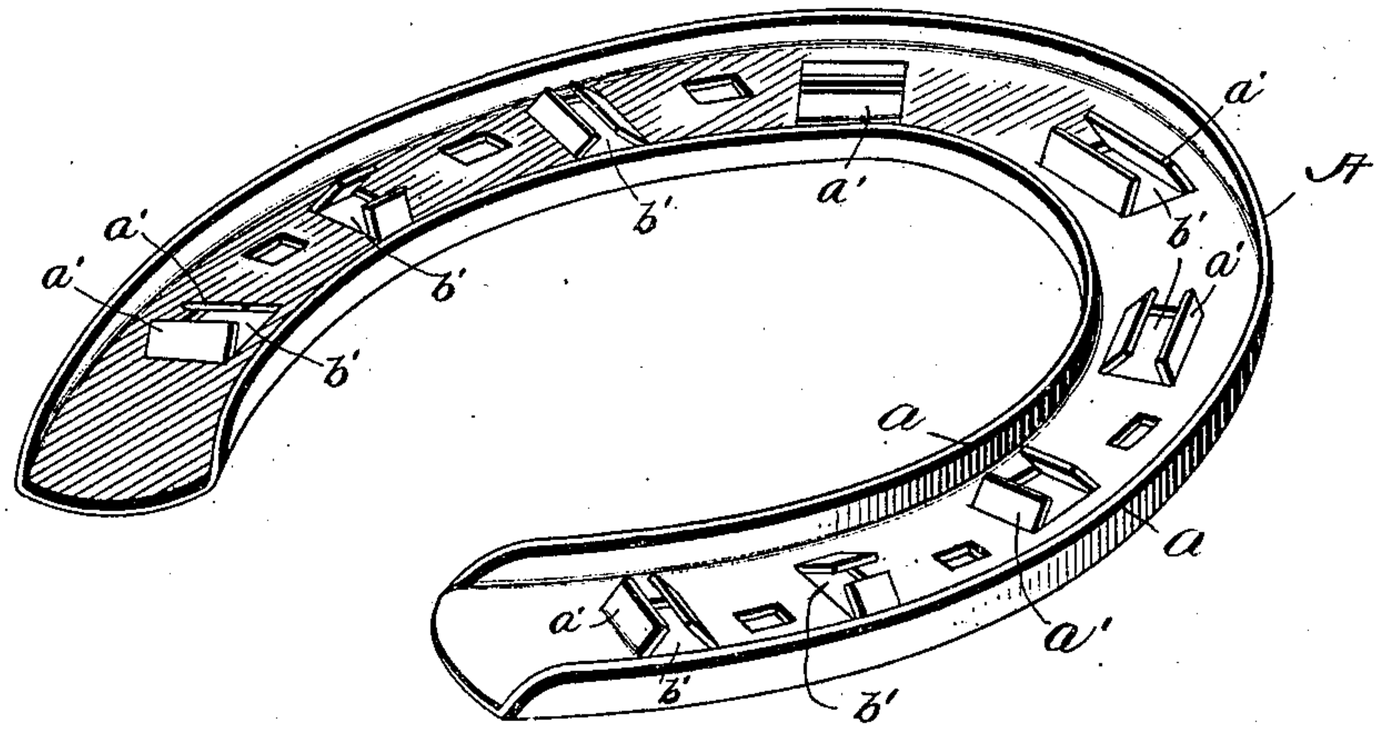
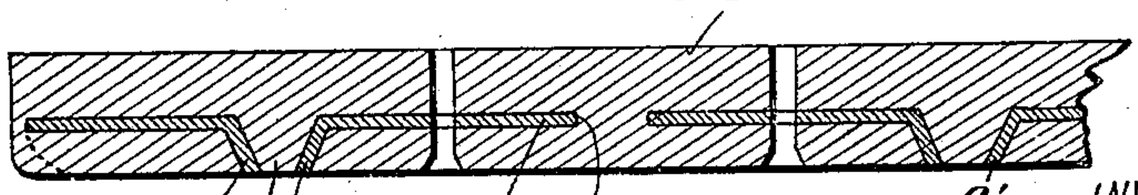


Fig. 4.



WITNESSES

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HORSESHOE.

No. 922,408. Specification of Letters Patent. Patented May 18, 1909.

Application filed October 13, 1908. Serial No. 457,475.

To all whom it may concern:

Be it known that I, JACOB H. FAWKES, a citizen of the United States, and a resident of Detroit, in the county of Wayne and State of Michigan, have made certain new and useful Improvements in Horseshoes, of which the following is a specification.

My invention relates to improvements in horseshoes and it consists in the combinations, arrangements and constructions herein described and claimed.

An object of my invention is to produce a horseshoe which is of comparatively light weight, while at the same time being strong and durable.

A further object of my invention is to make a shoe that is provided with hardened non-slipping devices and a softer wearing part so that the non-slipping devices are always exposed, thereby rendering the shoe always sharp.

A further object of my invention is to provide a core of hardened metal in a shoe, the body of which is of softer material, thus adding strength to the shoe as a whole.

My invention is illustrated in the accompanying drawings in which—

Figure 1 is a top plan view of the shoe. Fig. 2 is a bottom plan view. Fig. 3 is a perspective view of the hardened core, and Fig. 4 is a section along the line 4—4 of Fig. 2.

Referring now particularly to Fig. 3, I have shown therein a view of the reinforcing core. This consists of a strip of metal A, preferably of steel which is stamped out in the shape shown. The inner and outer edges of the strip are provided with laterally extending flanges *a* for strengthening the strip. These flanges constitute part of the wearing surface of the shoe as will be explained later. The strip is also provided with a series of integral lugs or flanges *a'*, which are struck up from the strip in the stamping process, leaving openings *b'*. These lugs are arranged in pairs, the adjacent pairs being at right angles to each other as clearly shown in Fig. 3. Nail holes *c* are provided between the various sets of lugs. After the strip is formed it is then hardened.

The hardened strip above described constitutes a reinforcing core, about which the body B of the shoe, which is of aluminum, is cast, in molds provided for the purpose. This is accomplished by a process which does not affect the temper or hardness of the reinforcing core. The lugs *a'* and flanges *a* of the core extend slightly beyond the bottom of the shoe and form cleats which prevent the shoe from slipping. The aluminum being a softer metal, tends to wear away faster than the hardened steel flanges and lugs. The latter members are continually exposed and the shoe is therefore always sharp. Moreover the shoe, although being of comparatively light weight, is strong and durable owing to the presence of the reinforcing steel core.

I am aware that other forms of the device, based upon the same general principle, might be made, but I consider as my own and desire to claim all such modifications as as fairly fall within the spirit and the scope of the invention.

I claim—

1. A horseshoe comprising a reinforcing hardened steel core, and an aluminum body cast around said core, said core being provided with lugs and flanges extending to the bottom of the shoe and constituting gripping and wearing members.

2. A horseshoe comprising a reinforcing hardened steel core, and an aluminum body cast around said core, said core being provided with side flanges and lugs struck from the body thereof and extending downwardly to the bottom of said shoe to constitute gripping and wearing members, said aluminum body constituting a softer wearing part.

JACOB H. FAWKES.

Witnesses:
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