

(No Model.)

2 Sheets—Sheet 1.

J. H. PUNCHARD.
ANTISLIPPING PAD FOR HORSESHOES.

No. 577,321.

Patented Feb. 16, 1897.

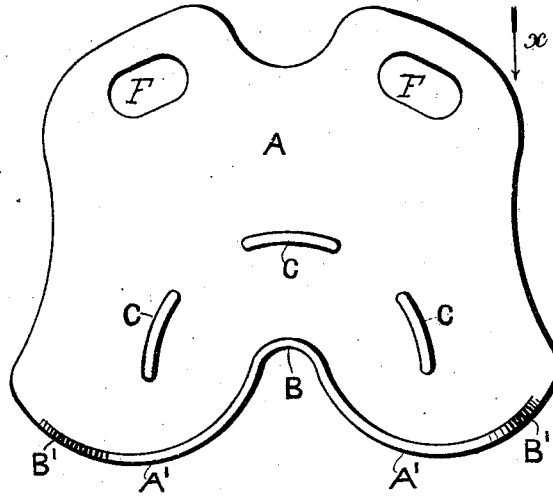


FIG. 1.

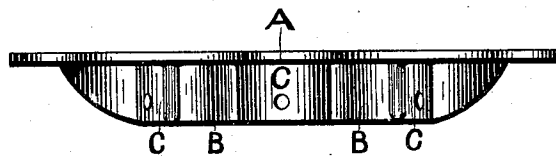


FIG. 3.

WITNESSES

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O. Hart

INVENTOR

John Henry Punchard
by George Rogers

ATTORNEYS.

(No Model.)

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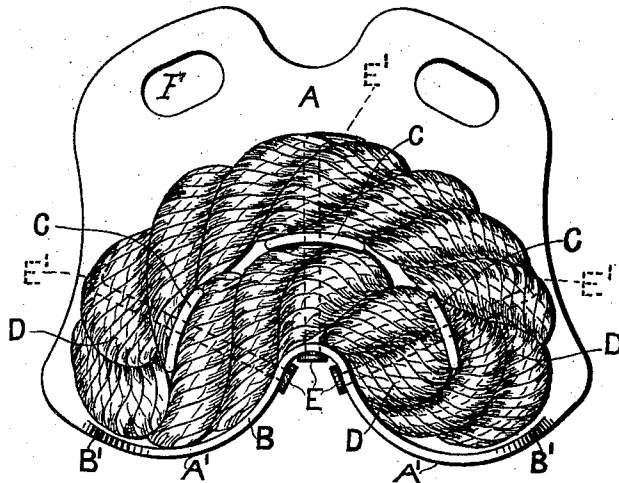


FIG. 2.

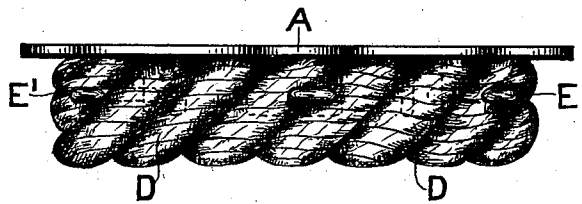


FIG. 4.

WITNESSES.
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UNITED STATES PATENT OFFICE.

JOHN HENRY PUNCHARD, OF LONDON, ENGLAND.

ANTISLIPPING PAD FOR HORSESHOES.

SPECIFICATION forming part of Letters Patent No. 577,321, dated February 16, 1897.

Application filed May 28, 1896. Serial No. 593,388. (No model.)

To all whom it may concern:

Be it known that I, JOHN HENRY PUNCHARD, civil engineer, a subject of the Queen of Great Britain, residing at 36 Cornwall Road, Westbourne Park, London, England, have invented Improvements in Antislipping Pads or Appliances for Horseshoes or the Like, of which the following is a specification.

This invention relates to improvements in or in the construction of horseshoe-pads or antislipping appliances for horses or other draft-animals, and has for its objects to produce such pads or appliances of a simple character, easy to construct and apply to the shoe, inexpensive in cost, and durable in wear, and which is at the same time designed to fulfil all the requirements of a pad to operate effectively on all characters of paving and roadways and thus having many advantages over other pads or appliances heretofore tried for a similar purpose.

In order that my invention may be easily understood and readily carried into practice, I will proceed to further describe the same with reference to the drawings hereunto annexed.

Figure 1 is a plan of the under side of the metal plate on which the antislipping material is fixed. Fig. 2 is a similar view with the rope D affixed thereon. Fig. 3 is an edge view of Fig. 1, looking in the direction of the arrow *x*; and Fig. 4 is a similar view of Fig. 2.

On a plate A, of any suitable metal and of suitable size and thickness, I form, arrange, or mount a wall or flange B around the back edge thereof, the shape of this back edge of the plate A, (and wall B thereon,) *i. e.*, adjacent to the "frog," being curved or indented (at or near the center of the plate) inward toward the toe and opening or tapering outward gradually and then advantageously curved round at A' (on each side of said opening) toward the side edge of the plate, these side edges of the plate extending under the metal shoe, as also the toe or front end of the plate or part or parts thereof, and the plate is held in position on the hoof with its edges or parts thereof laid and resting between the shoe and the hoof, where it is further secured or held in position in any suitable manner—for instance, by the ordinary nails of the shoe passing through said plate, in which latter holes,

openings, or slots may be provided, as desired, in any suitable manner—for instance, enlarged holes or slots F, as shown in the drawings. On the same side or face of this plate A as the said back wall or flange B is arranged (*i. e.*, the lower face) I also form, arrange, or mount at a little distance from said wall B (say about three-fourths of an inch or more or less) and advantageously concentric therewith or parallel thereto either a continuous wall or projecting ledge, or it may be two or more projections or supports, such as C C, to act as hereinafter explained, and for facility and cheapness of construction the last-named inner wall or projection C C, as well as the first-named curved outer wall B, may be cast in or solid with the said plate A—for instance, in malleable iron. Any suitable non-slipping or antislipping material may be used on this plate, but the latter is especially designed and adapted for what is considered to be one of the best materials for the purpose—*viz.*, rope—and according to my present invention I arrange and mount said rope in a very advantageous form or manner.

Any suitable rope (advantageously tarred hemp rope) is formed into a small ring or gromet D, of a size to suit my purpose, and this is then squeezed together sidewise, so that one part thereof will lie close against and parallel with another part of said ring, and in this form said gromet D is laid on the plate A (or may be first laid on same and there forced into the desired form) with one side of the ring D lying between the said outer wall B and said inner wall or projections C and the other side or remainder of the ring D resting against the inside wall of the metal shoe when mounted in conjunction with the latter. This gromet or antislipping pad D is secured to the said plate in any suitable manner—for instance, by headed pins or nails E, passed horizontally through same and through the aforesaid walls or projections B and C, or by pins, rivets, wire, &c., passed into or through said rope D direct into the aforesaid plate A or otherwise, as desired.

It is an important feature that according to my said improvements the said plate A and the flange B and supports C thereon can be all cast together in one casting from any suit-

100

able metal, and this combined with the shape or formation along the back edge gives immense strength as well as other advantages, such as cheapness and facility of construction.

5 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. An antislipping pad or appliance for horseshoes or the like, consisting of a metallic plate having the rear edge thereof curved or indented, a short wall or flange extending only along said rear edge and arranged at or about right angles thereto, supports extending from said plate on the same side as the
10 said wall or flange and arranged at some distance from the sides of the plate, a gromet or ring of rope passing around said supports and between the supports and the wall or

flange, and means for securing said gromet or ring to the wall or flange and the supports and against the under face of the plate, substantially as set forth. 20

2. An antislipping pad or appliance for horseshoes or the like, comprising a plate of malleable iron or the like, provided with a flange or wall extending only along the rear edge, and supports on the under face of said plate extending parallel with the flange or wall, said supports being arranged at some distance from both side edges of the plate, all of said parts being cast in one piece, substantially as set forth. 30

JOHN HENRY PUNCHARD.

Witnesses:

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H. D. JAMESON.