

E. R. CAHOONE.

HARNESS-PAD.

No. 188,233.

Patented March 13, 1877.

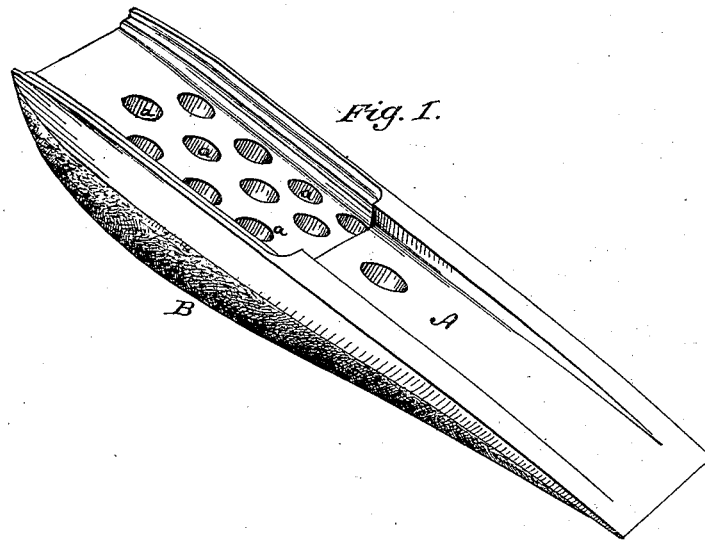


Fig. 1.

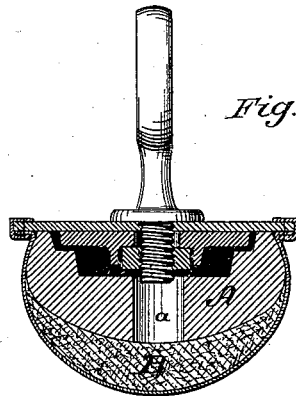


Fig. 2.

Attest:

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# UNITED STATES PATENT OFFICE

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## IMPROVEMENT IN HARNESS-PADS.

Specification forming part of Letters Patent No. **188,233**, dated March 13, 1877; application filed February 13, 1877.

*To all whom it may concern:*

Be it known that I, EDWIN R. CAHOONE, of Newark, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in Pads or Stuffing for Harness-Saddles and Coach-Pads, of which the following is a full and clear description, reference being had to the accompanying drawing, wherein—

Figure 1 is a perspective view of my pad. Fig. 2 is a transverse section of the same.

Heretofore pads have been made of solid material, either rigid or elastic, such as wood or india-rubber; but with such pads it has been found necessary to insert a porous layer to be interposed between the horse's back and the solid pad to take up the perspiration from the skin, and to prevent injury from the absorption by the skin of deleterious substances contained in the pad. This is particularly the case with pads made from vulcanized india-rubber, which not only holds sulphur in combination, but is also generally adulterated with white lead and other substances of a poisonous nature.

The proper stuffing of a pad is an operation requiring considerable skill, and occupies considerable time.

The object of my improvement is to obviate this expenditure of skilled labor, by providing a pad having all the required characteristics, complete and ready for instant use; and it, therefore, consists of a solid foundation, preferably of elastic material, say india-rubber, provided with a layer of fibrous material, preferably felt, attached to its under side.

It also consists in a solid pad, perforated for purposes of ventilation, and decreasing weight, and combined with a fibrous lining.

That others may fully understand my invention, I will more particularly describe it.

A is the solid portion of the pad, which can be made of felt alone, although I prefer to

construct of vulcanized india-rubber, which may be molded in any desired form to fit special trees, with recesses for the reception of terret or pad screw-nuts, &c., as may be desired.

It is desirable also to mold the pad A with perforations *a a*, more or less in number, to permit a ventilation of the fibrous or felt lining B. They also serve to lighten the pad, and do not, in any material degree, weaken it.

The lining B I prefer to make of felt, which may be cemented to the rubber after vulcanization, or may be cemented by the process of vulcanizing.

This complete pad is covered with leather or cloth in the usual way, but requires no special skill, as no stuffing is required, and it consumes no more time than is required in uniting the parts of the covering leather or cloth.

As the sewing may all be done by machinery, skilled labor may be almost, if not entirely, dispensed with.

Having described my invention, what I claim as new is—

1. A pad for harness-saddles or coach-pads, composed of a base, A, preferably of vulcanized india-rubber, perforated, as shown, or other elastic material molded to fit the tree, and combined with a lining, B, of felt, as set forth.

2. A pad, A, molded with perforations *a*, substantially as shown, for the purpose of ventilation and to diminish weight, as set forth, combined with a lining, B, of felt or other suitable material secured thereon by any glutinous substance, or in the process of vulcanization.

EDWIN R. CAHOONE.

Witnesses:

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