

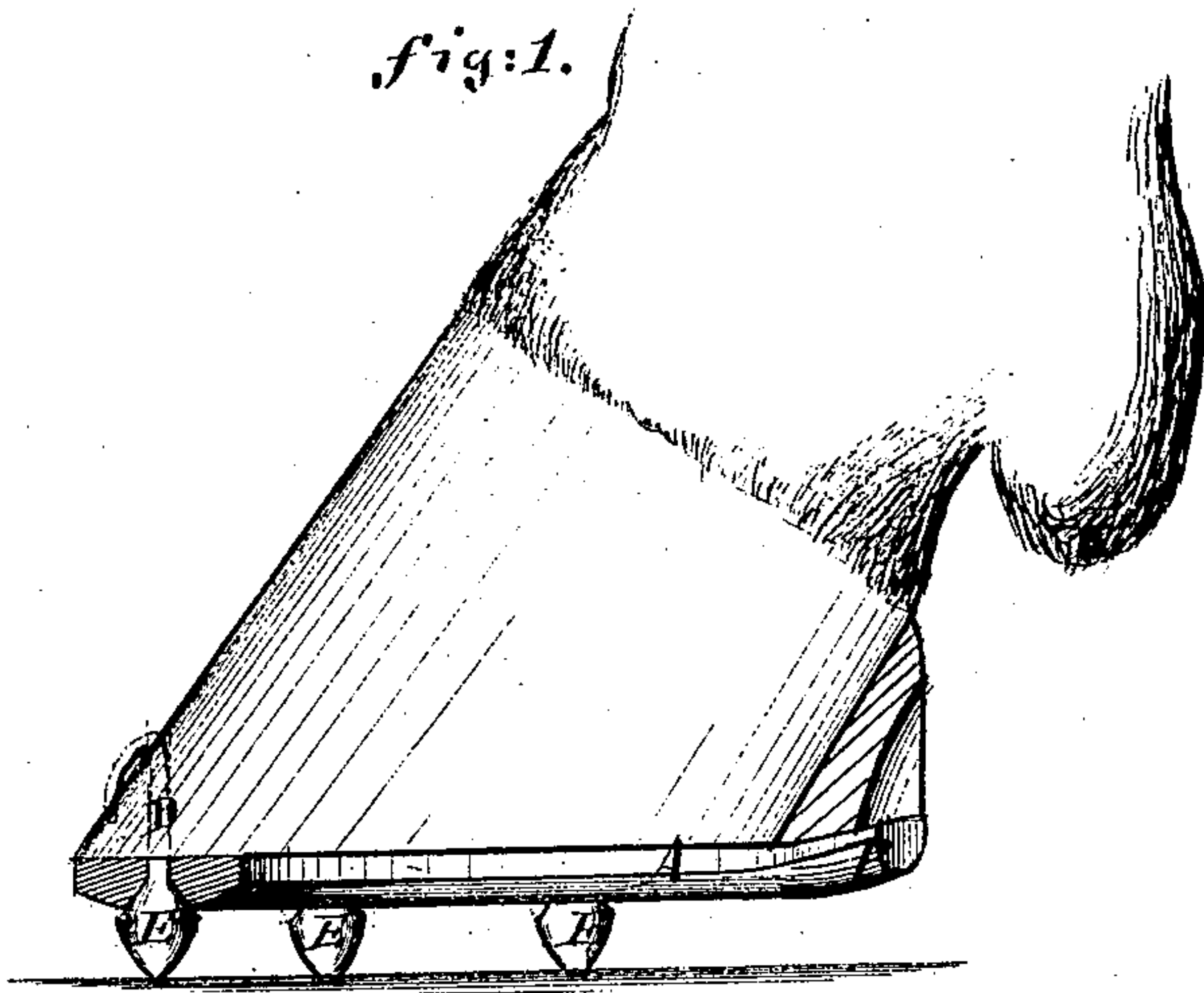
*G. Copeland,*

*Horseshoe.*

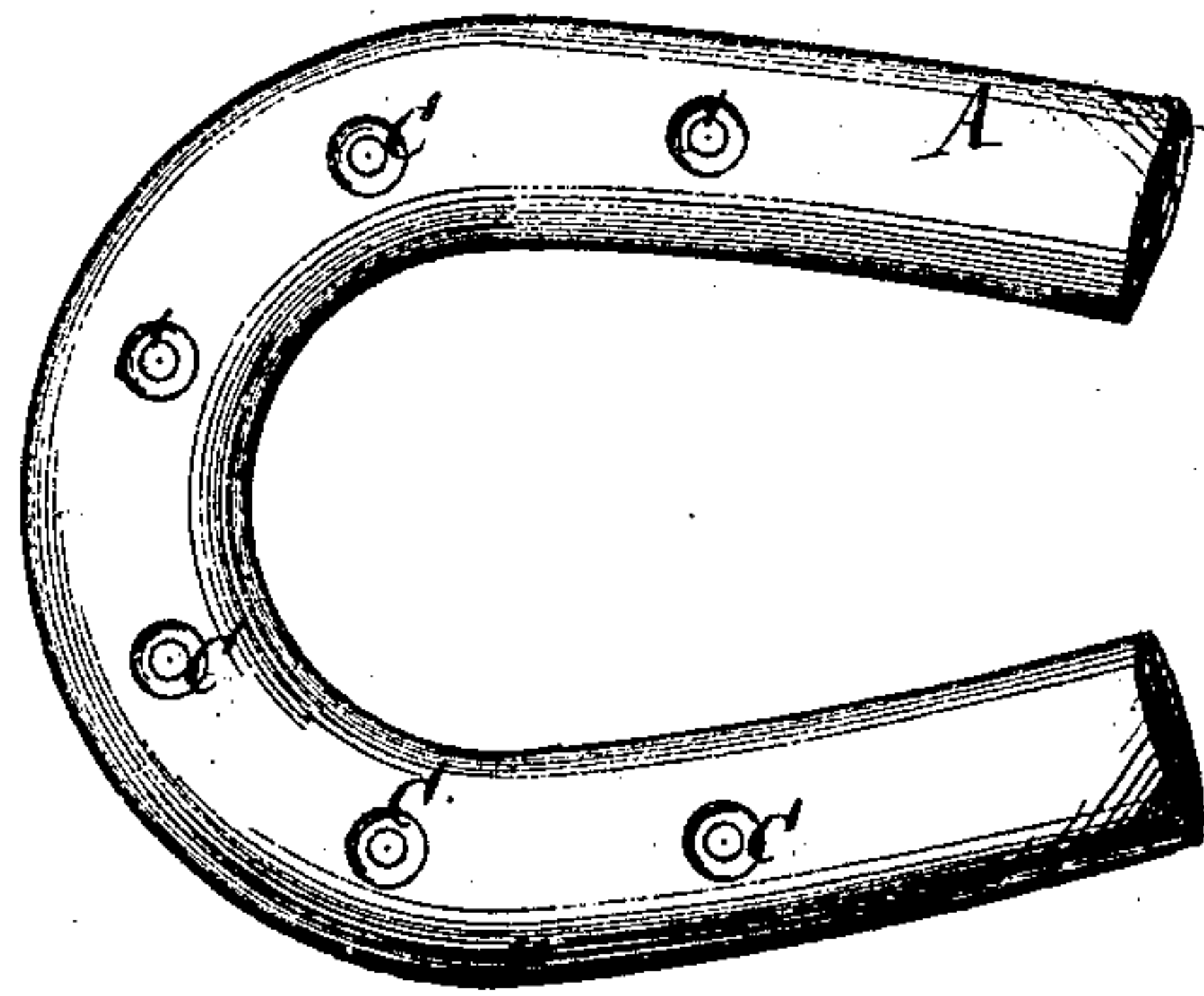
*No. 102,504.*

*Patented May 3. 1870.*

*fig:1.*



*fig:2.*



**Witnesses:**

*M. Vorländer*  
*E. S. Mabey*

**Inventor:**

*Geo. Copeland*

**PER**

*[Signature]*  
**Attorneys.**

# United States Patent Office.

GEORGE COPELAND, OF DENVER, COLORADO TERRITORY.

*Letters Patent No. 102,504, dated May 3, 1870.*

## IMPROVEMENT IN HORSESHOES.

*The Schedule referred to in these Letters Patent and making part of the same.*

*To all whom it may concern :*

Be it known that I, GEORGE COPELAND, of Denver, in the county of Arapahoe and Territory of Colorado, have invented a new and useful Improvement in Horseshoes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to improvements in horseshoes and the nails for fastening them on the hoofs of animals; and

It consists in making the nails with large double conical heads and the shoes with countersunk sockets around the holes, for the reception of the parts of the enlargements of the heads with which the smaller parts of the heads are joined; all arranged so that the enlarged heads of the nails shall serve as the calks of the shoe, the said heads being made of either iron or steel and hardened or not, as preferred.

Figure 1 is a side view of a hoof with my improved shoe attached, a part being sectional; and

Figure 2 is a plan of the bottom of the shoe.

Similar letters of reference indicate corresponding parts.

A is the plate of the shoe, which may be of any shape in cross section, and may have the ordinary toe and heel calks or not; or, instead of the heel-calks, it may be turned up at the heel, as shown at B, the latter being the arrangement which I prefer.

C represents the countersunk sockets, or the nail-holes.

D represents the nails; and

E, the enlarged heads thereof, which in the example, are represented in the form of double cones united at the base.

These large heads are intended to serve as the calks of the shoe, and constitute detachable calks, which may be very readily removed, for the substitution of others, when worn.

The parts of the heads fitting in the countersunk sockets are designed for strengthening the nails at the junction of the heads with the other parts.

These nails or the heads may be made of steel and hardened or tempered for making them more durable, but they may be made wholly of iron, if preferred.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

1. A horseshoe, A B, curved upwardly at the heel, and provided with six conical holes, as shown and described.

2. A horseshoe-nail, having a head formed of two cones whose bases lie in the same central plane thereof, as an improved article of manufacture.

GEORGE COPELAND.

Witnesses:

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