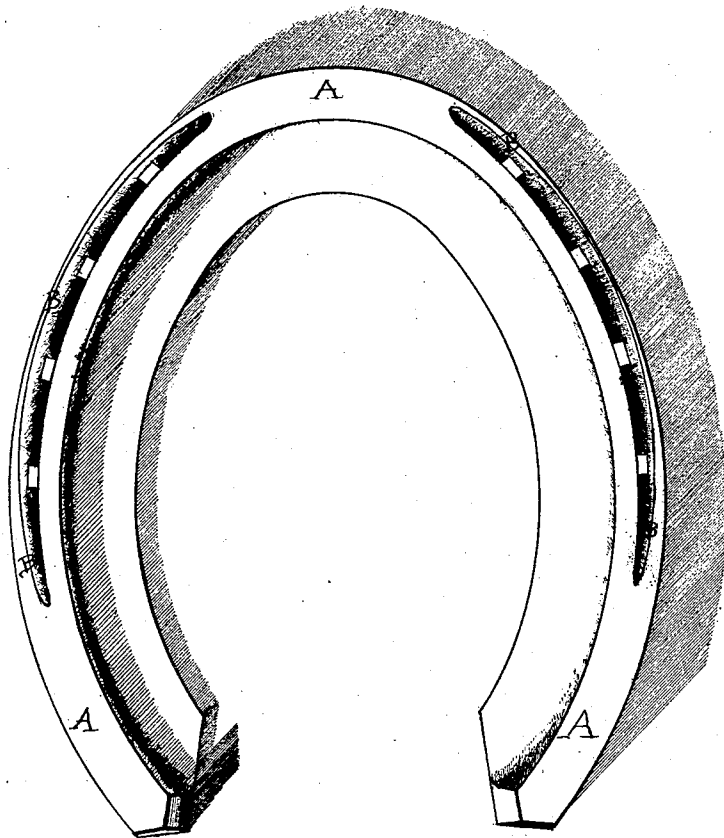


E. CATE.  
Horseshoe.

No. 101,581.

Patented April 5, 1870.



*Witnesses*

*E. B. Gill*  
*Kaew Mahony*

*Inventor*

*E. Cate*  
*By B. W. Williams*  
*Attys.*

# United States Patent Office.

EBENEZER CATE, OF WATERTOWN, MASSACHUSETTS.

Letters Patent No. 101,581, dated April 5, 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, EBENEZER CATE, of Watertown, Middlesex county, in the State of Massachusetts, have invented certain new and useful Improvements in Horseshoes; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings forming part of this specification.

The nature or essence of my invention consists in improving horseshoes made of angle iron or steel by grooving the wearing-surface midway between the heel and toe of the shoe, to reduce the wearing-surface of the shoe centrally between the heel and toe, and make the shoe wear more uniformly level than if it were not so grooved.

On the fifth day of February, 1861, I obtained a patent for a horseshoe made of angle iron and grooved the entire length of its wearing-surface, which shoe I have found to be defective, inasmuch as the heel and toe are found to wear much faster than the shoe does midway or centrally between the heel and toe, so that the wearing-surface of the shoe soon becomes curved like a rocker, which makes it very disagreeable for the horse to travel on. Hence, the object and purpose of my present improvements is to so improve the shoes for horses that they will wear nearly level or uniformly over their whole wearing-surface, so as to make them pleasant and agreeable to the horses that wear them.

In the accompanying drawings I have represented my improved shoe made of angle iron, in which shoe the wearing-surface A is made plain or flat at the heel and toe, as shown in the drawing, and midway or centrally between the heel and toe I make a groove, B, reducing the wearing-surface of the shoe from one-third to one-half; where the groove is made, which is found by use to make the shoe wear nearly uniform and flat or plain, rendering it far less injurious to the horse than if the shoe wear round or unevenly; hence, the great and important advantage of my improved shoe over those heretofore used.

From the groove B, I make the nail-holes necessary for fastening the shoe to the hoof of the animal in the usual manner.

Having described my improvements,

I claim as a new article of manufacture—

A horseshoe, made of angle iron or steel, and grooved on its wearing-surface midway between the heel and toe of the shoe, substantially as described, to reduce the wearing-surface of the shoe between the heel and toe and make the shoe wear more uniformly level than if it were not grooved.

EBENEZER CATE.

Witnesses:

J. DENNIS, Jr.,  
WM. DENNIS.