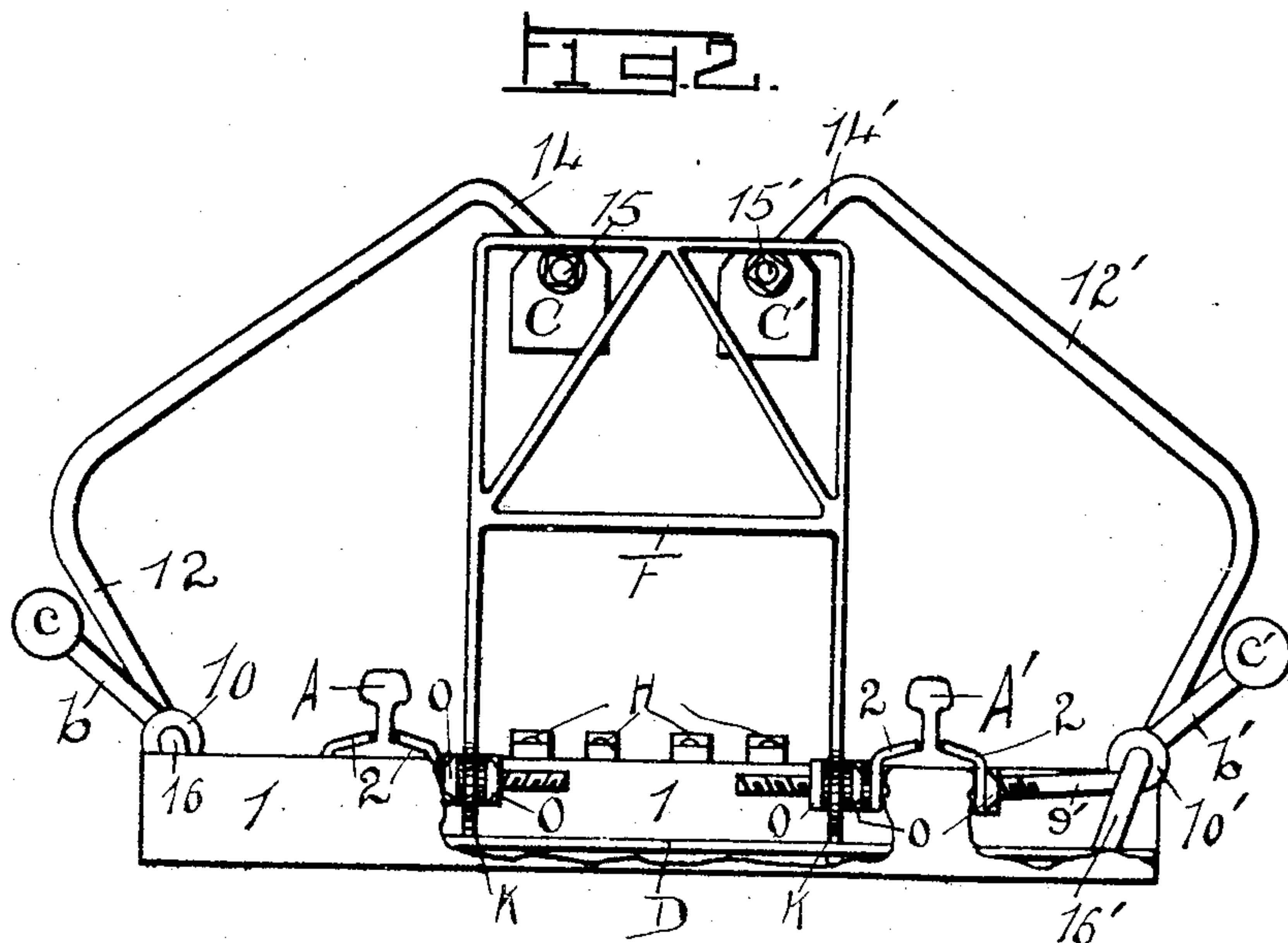
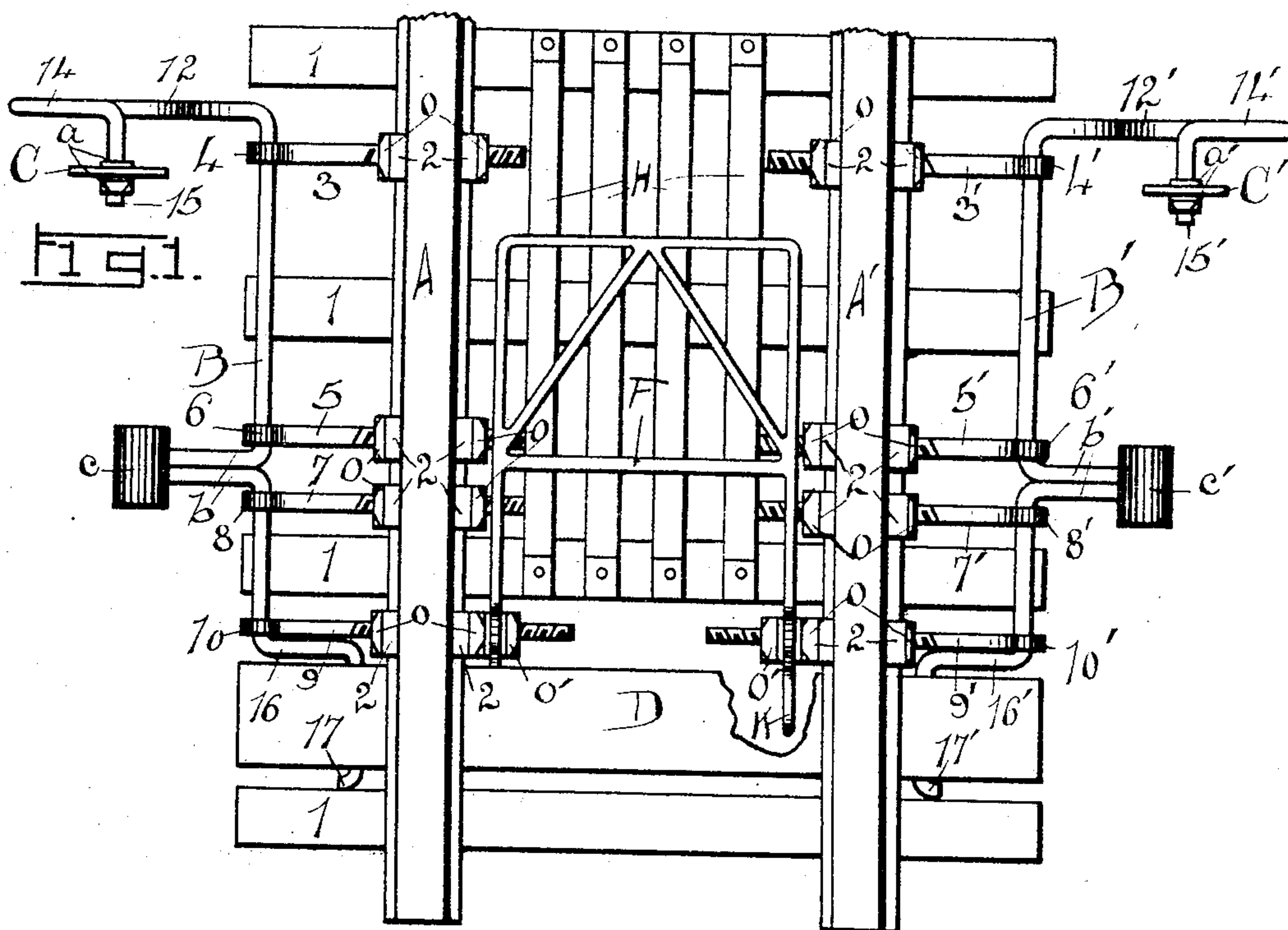


No. 779,909.

PATENTED JAN. 10, 1905.

G. S. COOPER.  
CATTLE GUARD.  
APPLICATION FILED MAR. 26, 1904.



WITNESSES:  
W. E. Windsor.  
N. Oberman.

BY

INVENTOR:  
George S. Cooper  
Esq. W. S. Sues.  
Attorney.

# UNITED STATES PATENT OFFICE.

GEORGE SANFORD COOPER, OF RANCHESTER, WYOMING.

## CATTLE-GUARD.

SPECIFICATION forming part of Letters Patent No. 779,909, dated January 10, 1905.

Application filed March 26, 1904. Serial No. 200,141.

*To all whom it may concern:*

Be it known that I, GEORGE SANFORD COOPER, residing at Ranchester, in the county of Sheridan and State of Wyoming, have invented certain useful Improvements in Cattle-Guards; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a new and novel improvement in cattle-guards.

The aim of my invention is to provide a simple inexpensive device which may be readily attached to or detached from the rails at any suitable point and provides an effective means to prevent cattle from crossing and traveling between the rails.

In the accompanying drawings I have shown, in Figure 1, a top view of the instrumentalities in their normal condition, while Fig. 2 discloses the tread as depressed to operate the guard-frame and the scare-arms.

In carrying out my invention I use ordinary eyebolts, which are secured to the rails A by means of the clamps 2 and nuts O. In constructing my cattle-guard I use eight such eyebolts, (marked 3 5 7 9 and 3' 5' 7' 9',) as disclosed in Fig. 1, each eyebolt being provided with one of the clamps 2 and nuts or burs O, as shown, so that these eyebolts may be secured at any suitable point to the rails, as A A'. These eyebolts support two peculiarly-bent iron rods (marked B and B') similar in construction. The rod B, it will be noticed, is provided with an outwardly-bent portion, as shown at b, to which is secured a suitable weight c, while the end of the rod adjacent the eyebolt 9 is in the form of a crank, the end being turned up at 17. At the opposite end the bar B is bent outward and upward in the form of an L, as is shown at 12, and then

has a small L-shaped extension, as is shown at 14, to the end 15 of which is secured a swinging scare-plate C, which rocks and sways when the bar B is tilted or rocked and is intended to scare the animal that should try to pass. These scare-plates are secured between the burs a, as shown. The construction upon the opposite side is similar, as is disclosed in the drawings.

The terminal eyebolts 9 and 9' are of a length exceeding the length of the remaining eyebolts and pivotally receive the lower ends K of a rectangular guard-frame F, which extend below a suitable tread D in the form of a board.

Normally the guard-frame F rests between the tracks upon the grate-bars H and support the tread in such a manner that this tread D rests immediately below and against the rails A and A'.

The weights c and c' assist in holding the crank-arms 16 and 16' upward to properly support the tread D, and in this condition the arms 12 incline outward and away from the rails. However, as soon as any weight comes upon the tread D, the instrumentalities all being nicely balanced, the depression of this tread will cause the raising up of the frame F, the arms K being shoved downwardly, while at the same time the scare-arms 12 will be drawn inwardly, crossing the track to vibrate and agitate the disks C and C', frightening the animal that depresses the tread in attempting to pass.

This cattle-guard is adapted to be instantly detached and removed and can be secured to the rails at any suitable point.

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

The combination with two track-rails of eyebolts, secured to said track-rails upon opposite sides, a rock-shaft, secured within said eyebolts, adjacent each rail, each rock-shaft be-



ing provided with a crank termination, at one  
end, and a projecting arm at the remaining  
end, a weight secured to each rock-shaft, nor-  
mally holding the same in position, a frame  
5 pivotally secured to the outermost pair of  
said eyebolts, and a tread, held in an upward  
position, by means of said rock-shafts, and  
resting upon the projecting ends of said

frame, all arranged substantially as and for  
the purpose set forth. 10

In testimony whereof I affix my signature in  
presence of two witnesses.

GEORGE SANFORD COOPER.

Witnesses:

E. G. REEDER,

ANNA McARTHUR.