

No. 779,642.

PATENTED JAN. 10, 1905.

O. B. DILLINGHAM.  
CATTLE GUARD.

APPLICATION FILED OCT. 5, 1904.

2 SHEETS—SHEET 1.

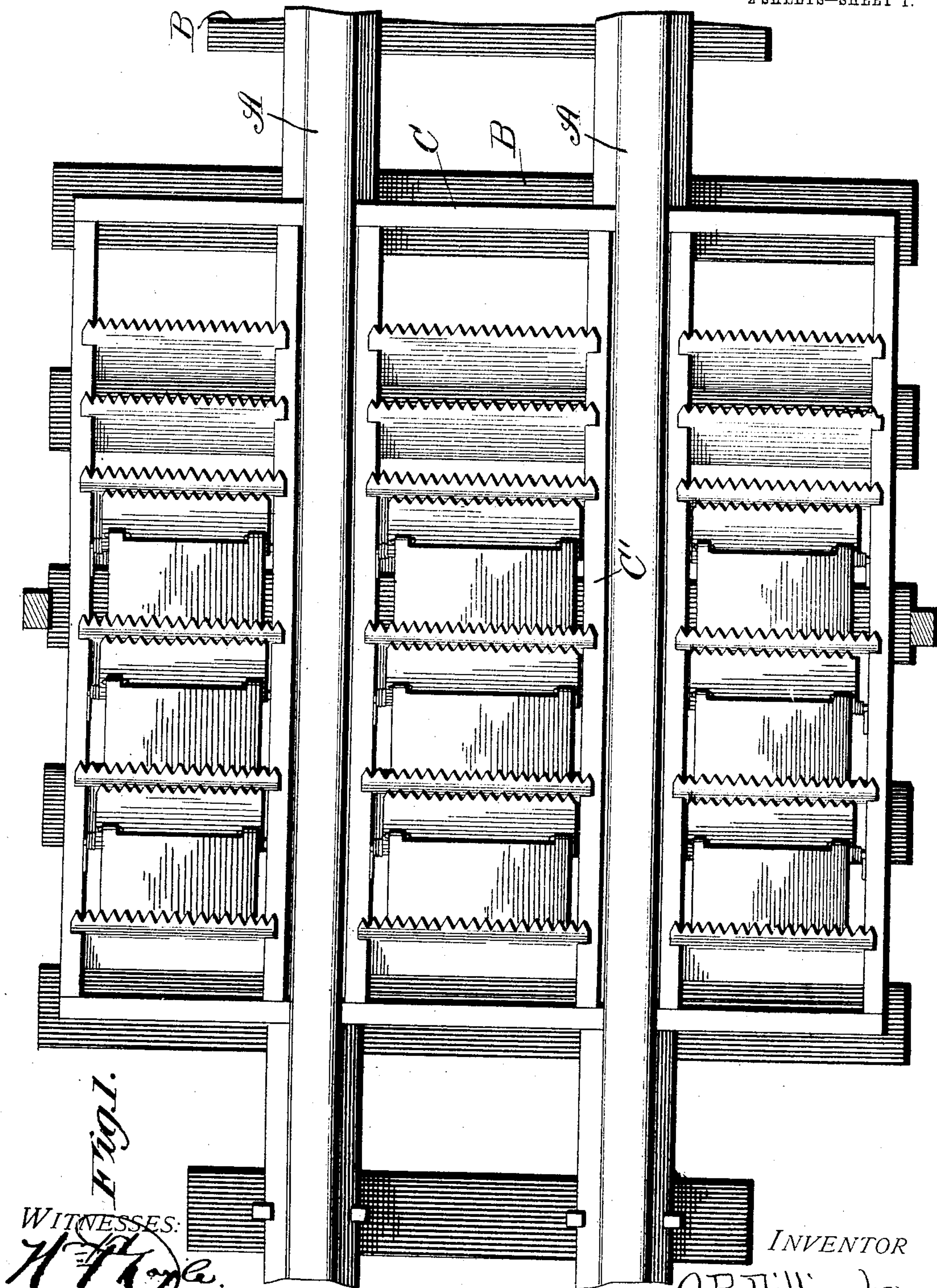


Fig. 1.

WITNESSES:

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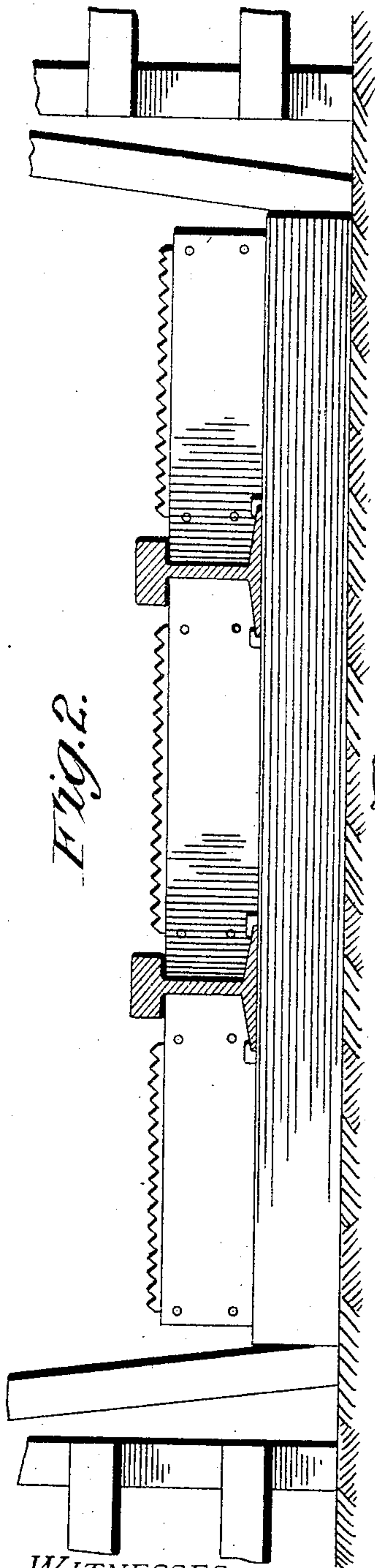


Fig. 2.

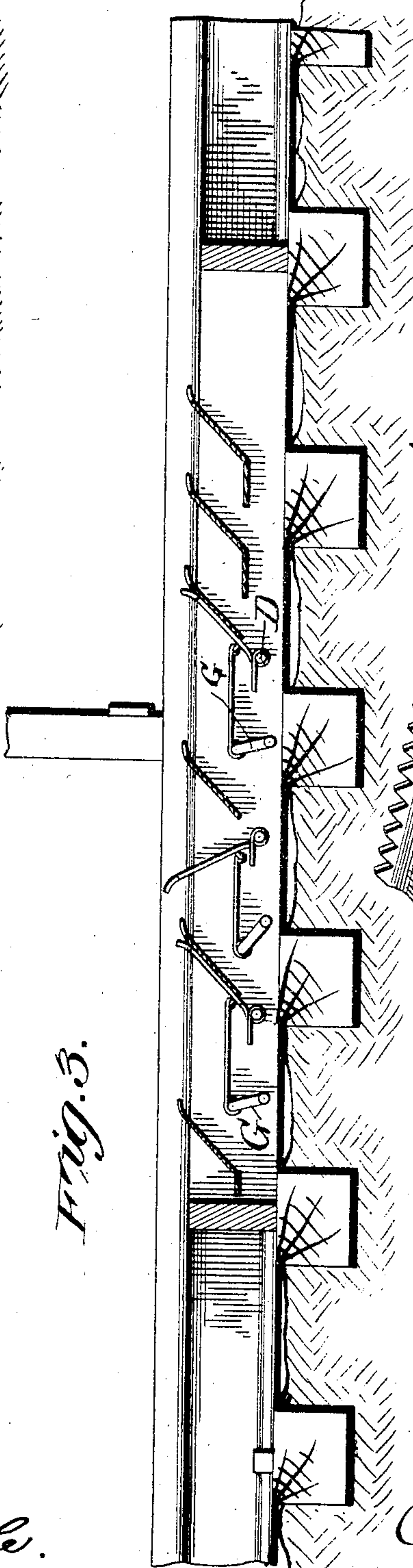


Fig. 3.

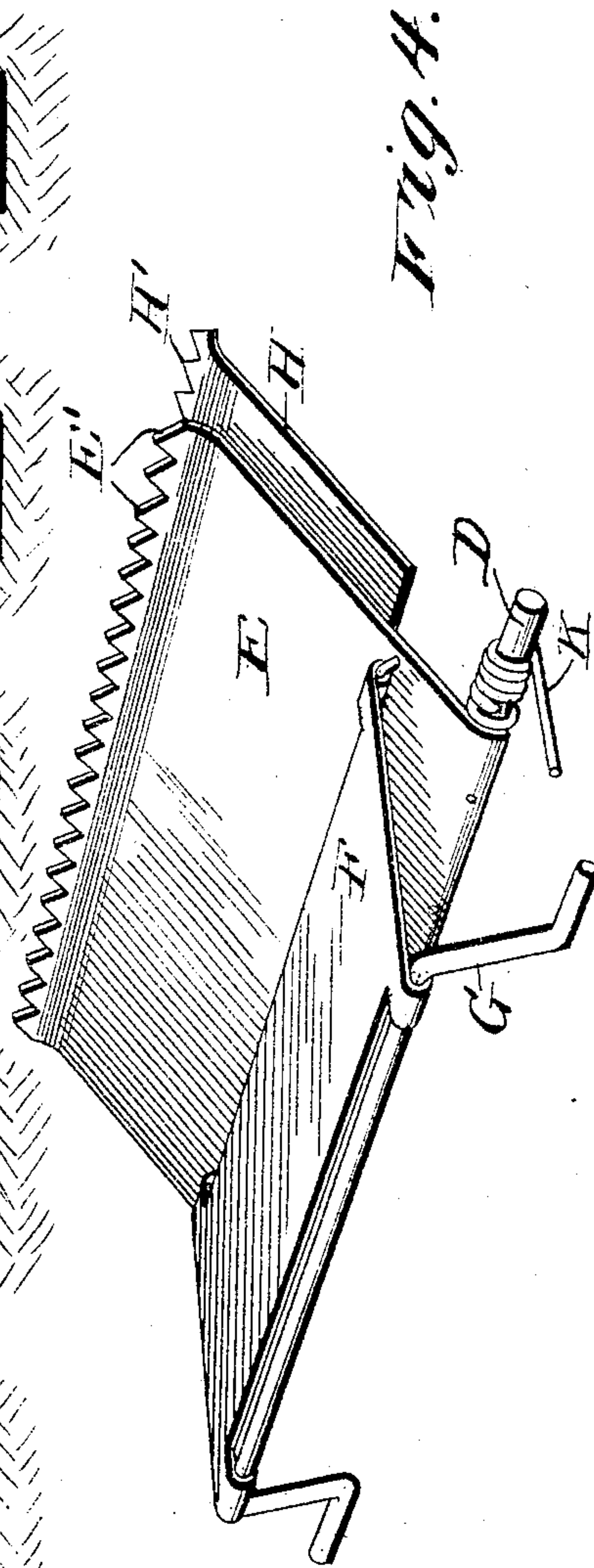


Fig. 4.

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# UNITED STATES PATENT OFFICE.

OSMAN B. DILLINGHAM, OF PAOLI, INDIAN TERRITORY.

## CATTLE-GUARD.

SPECIFICATION forming part of Letters Patent No. 779,642, dated January 10, 1905.

Application filed October 5, 1904. Serial No. 227,256.

*To all whom it may concern:*

Be it known that I, OSMAN B. DILLINGHAM, a citizen of the United States, residing at Paoli, Chickasaw Nation, Indian Territory, have invented certain new and useful Improvements in Cattle-Guards; and I do declare the following to be 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, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain new and useful improvements in cattle-guards, and it relates more particularly to that class of guards which are known as "surface-guards," and are designed to be placed between the tracks and adjacent to the tracks of railways at road or highway crossings, and serve to prevent cattle or other domestic animals from trespassing on the railway.

The invention has for its object the provision of a simple and inexpensive cattle-guard of this character, the construction being such that in the event of an animal stepping upon the guard its weight will cause a plate having a serrated edge to be thrown against the front of the leg, thus causing the animal to move backward off from the guard and prevent it from moving upon the track or road-bed.

To this end and to such others as the invention may attain the same consists in the peculiar construction and in the novel arrangement, combination, and adaptation of parts, all as will be more fully hereinafter described, shown in the accompanying drawings, and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a top plan view of a section of a railway with my improved form of cattle-guard shown in connection therewith. Fig. 2 is a transverse section and Fig. 3 a longitudinal section of the same, and Fig. 4 is an enlarged detail view in perspective of one of the platforms or foot-rests with its connections.

Reference now being had to the details of the drawings by letter, A A represent railway-rails, and B B are ties or sleepers to which the rails are attached.

C is a frame which may be of either wood or metal and of a width adapting it to be fitted within the rails A. If it is desired to use the same outside of the rails, the width may of course be varied to adapt it to fill the space adjoining the rails which is designed to be filled in order to prevent encroaching by animals.

Mounted in the side timbers C' of the frame C are the shafts D, and E designates a plate, one edge of which is sleeved upon the shaft D, while its opposite edge is bent upward and provided with a series of notches E'. A platform F has one edge thereof pivotally connected to a rod G, the crank ends of which are journaled in suitable bearings in the frame C.

K K are springs connected with the shafts D at their outer ends, the office of the said springs being to cause the plate E to be thrown backward or into its normal position after being thrown upward by the weight imparted to the platform. Secured to the under face of the plate E is a plate H, the free outer edge of which is curved slightly in the direction opposite to the curved portion of the plate E and is provided at its extreme outer edge with notches or points H'.

From the foregoing description the operation of the device will be readily understood. An animal in stepping upon the platform F will by its weight force said platform downward. The action of the cranked rod to which one edge of the said platform is hinged will serve to throw the upper serrated edge of the hinged plate E forward, and the points upon the hinged or serrated edge of the plate will contact with the shin of the animal, while the corresponding edge of the next preceding plate H will prick the heel. This pricking of the foot and leg will cause the animal to step backward off from the guard and will effectually prevent it from moving forward upon the road-bed. Upon the animal's weight being removed from the platform F the tilting plate

E will be automatically returned to its original position by the action of the springs K, as will be readily understood.

Having thus fully described my invention, what I claim to be new, and desire to secure by Letters Patent, is—

1. In a surface cattle-guard the combination with a transverse shaft, of a metallic plate secured at one of its edges to said shaft, and its opposite edge bent, as described, and a platform, having one of its edges hinged to said plate, a cranked rod to which the opposite edge of said platform is hinged, substantially as shown and described and for the purpose specified.

2. In a surface cattle-guard a transverse shaft, a plate having one of its edges hinged to said shaft and its opposite edge serrated, a platform having one of its edges hinged to the plate, a cranked rod to which the opposite edge of said platform is hinged, a spring K

attached to the shaft, and adapted to cause the plate to return to its normal position upon the release of pressure upon the platform, substantially as shown and described and for the purpose specified.

3. In a surface cattle-guard the combination with a shaft and plate hinged thereto, of a cranked rod, a platform, having one of its edges hinged to said cranked rod, and its opposite edge hinged to said plate, a plate secured to the rear face of the first-named plate, and having its outer edge inclined in the direction opposite to that of the outer edge of the plate, substantially as shown and described and for the purpose specified.

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

OSMAN B. DILLINGHAM,

Witnesses:

J. D. PARTER,

E. F. WILLIAMS.