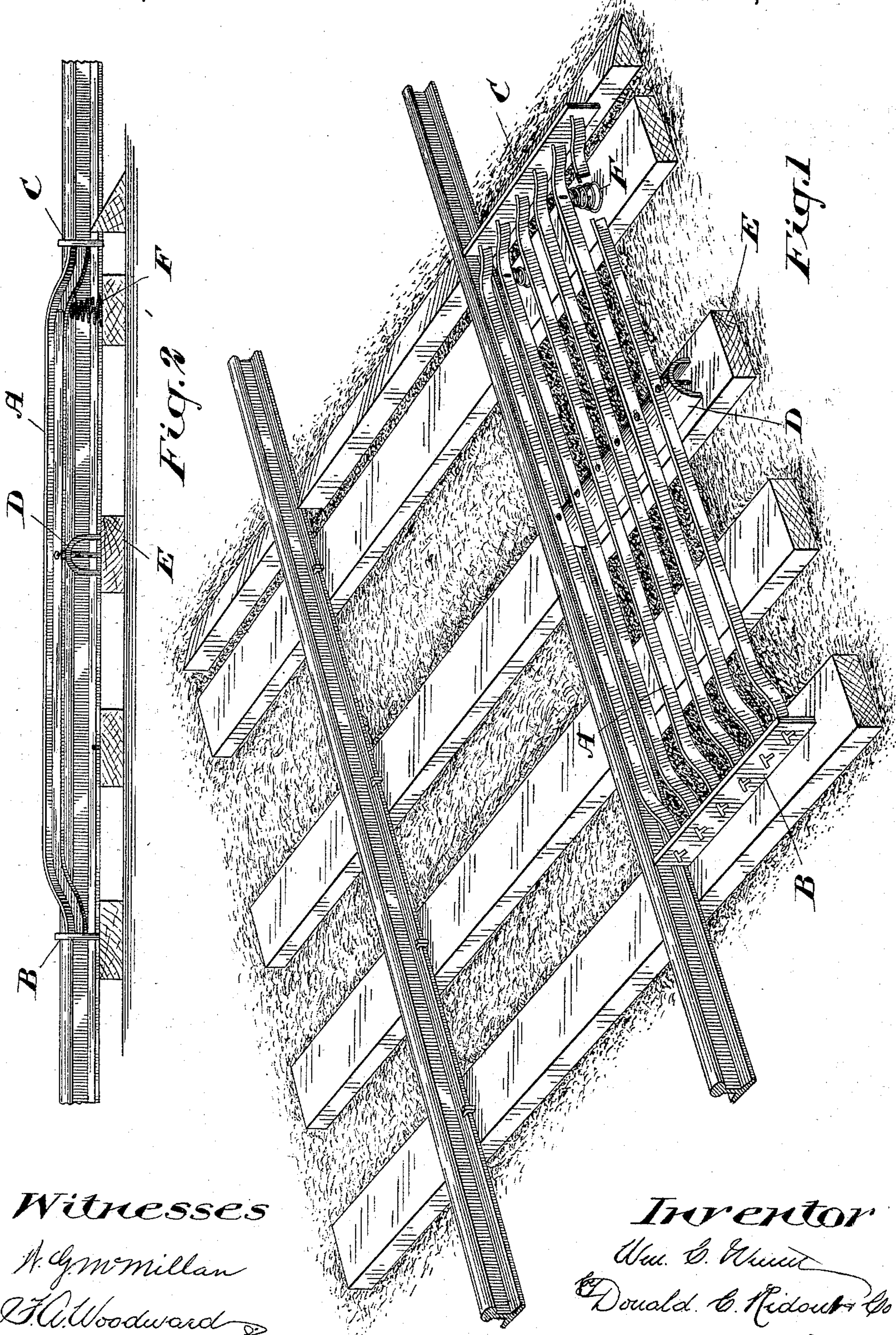


(No Model.)

W. C. NUNN.  
RAILWAY SURFACE CATTLE GUARD.

No. 492,424.

Patented Feb. 28, 1893.



*Witnesses*  
A. G. McMillan  
J. H. Woodward

*Inventor*  
Wm. C. Nunn  
Donald C. Kidout & Co  
Attys.



# UNITED STATES PATENT OFFICE.

WILLIAM C. NUNN, OF TORONTO, CANADA, ASSIGNOR TO THE CONSOLIDATED RAILWAY EQUIPMENT COMPANY OF TORONTO, LIMITED.

## RAILWAY SURFACE CATTLE-GUARD.

SPECIFICATION forming part of Letters Patent No. 492,424, dated February 28, 1893.

Application filed May 27, 1892. Serial No. 434,565. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM COE NUNN, of the city of Toronto, in the county of York, in the Province of Ontario, Canada, have invented a certain new and Improved Railway Surface Cattle-Guard, of which the following is a specification.

The invention relates to an improvement upon a tilting guard described in an application for a patent made by myself and Thomas Richard Fuller under Serial No. 412,800, and filed on or about the 23d of November, 1891, and the object of the present invention is to provide means by which the quick return of the guard to its normal position shall be insured, and it consists, essentially, in placing one or more springs below the guard substantially as hereinafter more particularly explained.

Figure 1, is a perspective view of my improved cattle-guard in its normal position. Fig. 2, is a side elevation.

A, represents the guard composed of a series of bars secured together at each end by the cross-bars B, C. This guard is supported near its center on a fulcrum D, which rests upon the tie E, and holds the guard A, above the surface of the ties. The cross-bar B,

rests upon the surface of one of the ties, while the cross-bar C, is suspended above one of the spaces between the ties. This latter I call the tilting end of the guard which I place next to the side road or point from which the cattle may be expected to enter the track. Below this end of the guard, I place one or more springs E, by which the guard is supported in a horizontal position, the cross-bar B, resting upon the tie. The moment that the animal steps upon the guard, the springs E, yield so as to permit the guard to tilt, which motion naturally frightens away from the guard the animal stepping upon it, and the guard immediately resumes its normal position by the action of the spring.

What I claim as my invention is—

As an improved cattle guard, a series of bars connected together, located above the ties and supported upon a properly located pivot, in combination with a spring or springs arranged to support one end of the guard, substantially as and for the purpose specified.

Toronto, May 12, 1892.

WILLIAM C. NUNN.

In presence of—

A. M. NEFF,

DONALD C. RIDOUT.