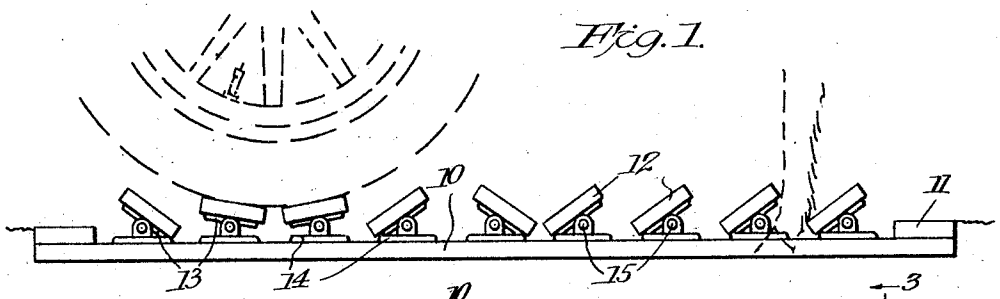
March 5, 1929. J. H. HOLMGREEN 1,704,085

CATTLE GUARD

Filed Nov. 11, 1927

Fig. 1.



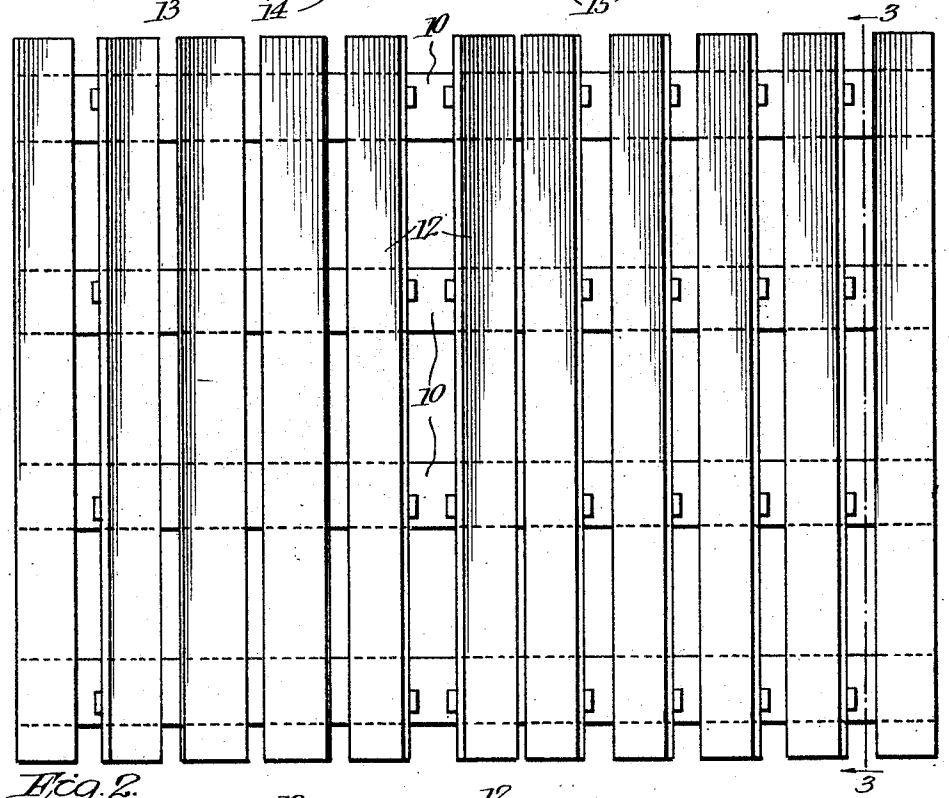


Fig. 2.

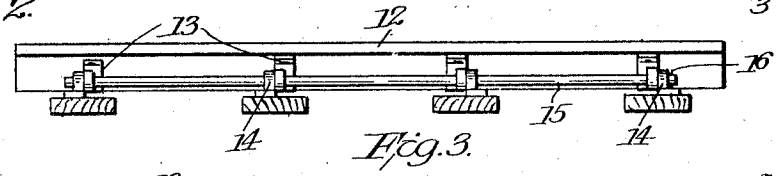


Fig. 3.

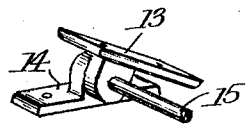


Fig. 4.

Inventor

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By

Attorney

Patented Mar. 5, 1929. 1,704,085

UNITED STATES PATENT OFFICE.

JULIUS HERMAN HOLMGREEN, OF SAN ANTONIO, TEXAS.

CATTLE GUARD.

Application filed November 11, 1927. Serial No. 232,633.

My invention relates to cattle guards and it is an object of the invention to provide a device of this character which is of simple and inexpensive construction and which will not only serve as a barrier to prevent cattle from crossing but will permit an automobile to be readily driven thereover, all as will be more fully described and claimed.

Referring to the accompanying drawings which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a side elevation of a cattle guard showing the manner of supporting an automobile wheel,

Figure 2, a top plan view,

Figure 3, a section on the line 3—3 of Fig. 2, and

Figure 4, an enlarged detail of one of the pivot joints.

In the drawings reference character 10 indicates a plurality of bottom sills or runners connected at their ends by cross-sills 11. The bottom sills 10 and cross sills 11 form a frame for supporting a plurality of floor boards or shoes 12 in spaced parallel relation transversely of the bottom sills or runners 10 and in parallel relation to the end or cross sills 11. In order to provide a substantial and durable construction each floor board is provided with means for supporting the same where it crosses one of the bottom sills 10 such means comprising a hinge or bearing having an upper hinge or bearing member 13 and a lower hinge or bearing member 14 connected by a rod 15 which extends through and forms a pintle for each of the hinge or bearing members supporting a single floor board. The rod 15 is provided at each end with a cotter-pin 16 for preventing the rod from working out of the bearing members. Each upper hinge or bearing member 13 and lower bearing member 14 is provided with a relatively long flat surface for engagement with its respective floor board or bottom sill secured thereto by means of bolts or other fastening devices.

It will be noted that the upper hinge or bearing member 13 is disposed transversely of the floor board and is of a length slightly less than the width of the floor board in order to reinforce the same and to prevent the floor board from splitting when weight is placed thereon

Since the hinge or bearing members which support a single floor board are disposed in substantially a straight line with a single rod forming the pivot and such pivot disposed substantially at the center on the under side of the floor board, such floor board is free to roll or oscillate on its mounting. With a plurality of such floor boards mounted in spaced relation an automobile may readily pass thereover as the floor boards will roll into position to conform to the wheel as shown in Fig. 1. On the other hand, when an animal steps upon the floor boards they will roll or pivot and prevent the animal from getting a firm footing and will consequently frighten him away.

My device is adapted to be placed with the bottom sills resting longitudinally upon the flat surface of the roadway, no prepared concrete foundation being required, and all that is necessary for holding the same in position is a few stakes at the ends to keep it from shifting or moving out of position.

In actual experience it has been found that my device is particularly desirable and satisfactory at the entrance to a driveway where it is necessary to be constantly driving in and out and where cattle will escape if some barrier is not provided for preventing the same.

It will be obvious to those skilled in the art that various changes may be made in my device without departing from the spirit of the invention, and I, therefore, do not limit myself to what is shown in the drawings and described in the specification, but only as set forth in the appended claims.

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

1. A cattle guard comprising a plurality of logitudinally disposed sills, transversely arranged floor boards pivotally mounted on said sills each floor board being mounted to move on an axis arranged transversely of said longitudinal sills, and hinge members having lower members engaging said sills and having upper members engaging said floor boards, substantially as set forth.

2. A cattle guard comprising a plurality of longitudinally disposed sills, transversely arranged floor boards pivotally mounted on said sills, and hinge members having lower members engaging said sills and having upper members engaging said floor boards, certain of said upper members being of a length substantially equivalent to the width of the floor boards to prevent their splitting, substantially as set forth.

3. A cattle guard comprising a plurality of

longitudinally disposed sills, transversely arranged floor boards pivotally mounted on said sills, each floor board being mounted to move on an axis arranged transversely of said longitudinal sills, hinge members having lower members engaging said sills and having upper members engaging said floor boards, and a rod forming a pintle for each of the hinge members beneath a singie floor board, substantially as set forth.

4. A cattle guard comprising a plurality of spaced parallel bottom sills, a plurality of spaced parallel floor boards arranged transversely of said bottom sills, and a pivotal support connecting each floor board and bottom sill at their crossing points, substantially as set forth.

5. A cattle guard comprising a plurality of spaced parallel bottom sills, a plurality of spaced parallel floor boards arranged transversely of said bottom sills, and a pivotal support connecting each floor board and bottom sill at their crossing points, the axis of the pivots for each floor board being disposed in end to end alignment, substantially as set forth.

6. A cattle guard comprising a plurality of spaced parallel bottom sills, a plurality of spaced parallel floor boards arranged transversely of said bottom sills, a pivotal support connecting each floor board and bottom sill at their crossing points, and a single rod forming the axes for the pivotal supports of each floor board, substantially as set forth.

7. A cattle guard comprising supporting means adapted to be placed longitudinally in a roadway, a plurality of spaced floor boards mounted transversely of said supporting means, and hinge means connecting said supporting means and the floor boards the axis of each floor board being disposed transversely of said longitudinal supporting means, substantially as set forth.

In witness whereof, I have hereunto set my hand at San Antonio, Texas, this fourth day of November, A. D. nineteeen hundred and twenty-seven.

JULIUS HERMAN HOLMGREEN.