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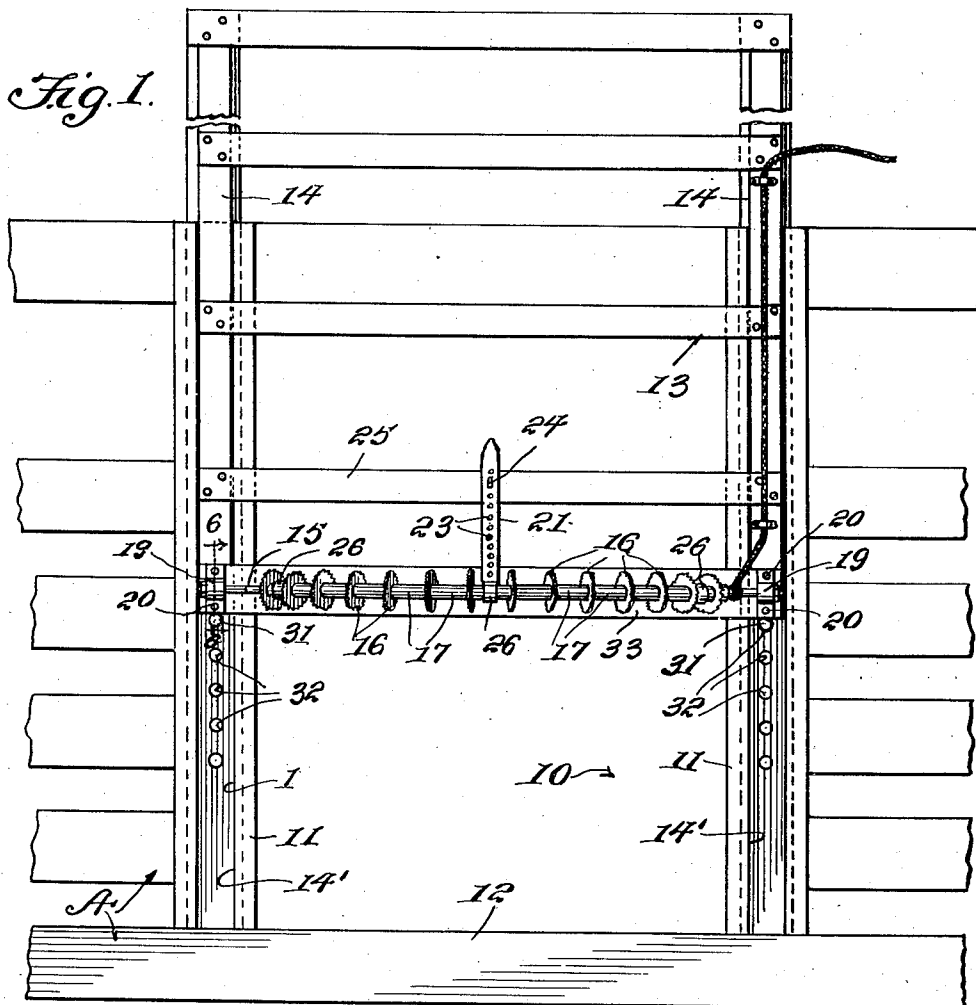
E. W. STENTZ

2,376,630

ADJUSTABLE ELECTRIC GATE

Filed May 1, 1944

2 Sheets-Sheet 1



Ezekiel W. Stentz,
INVENTOR.

BY

Victor J. Evans & Co.
ATTORNEYS

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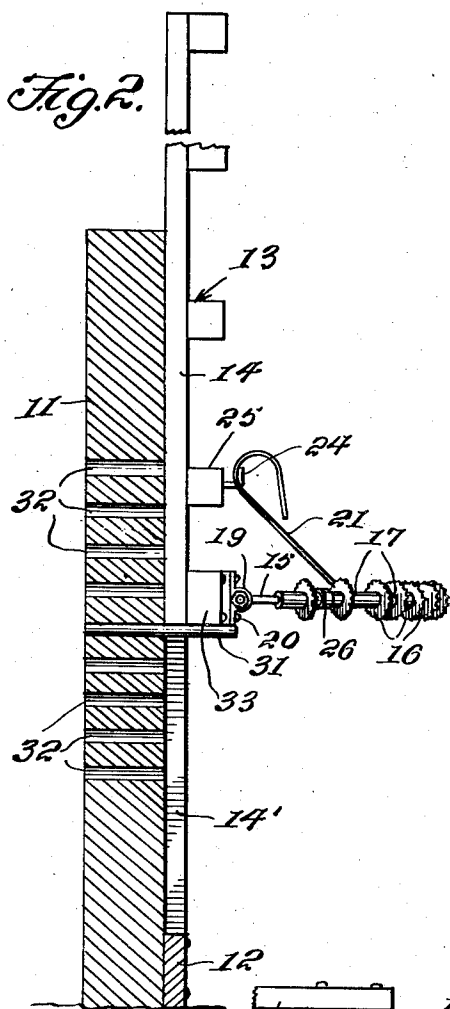
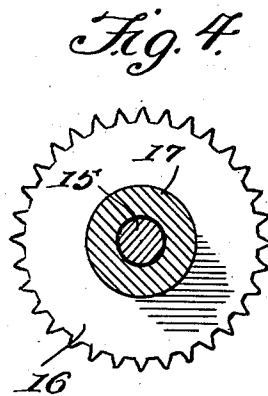
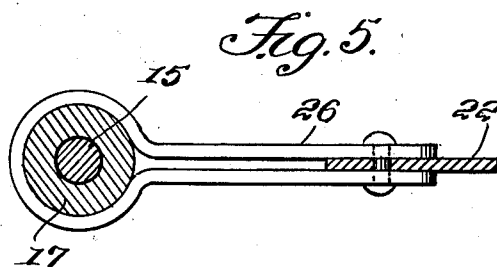
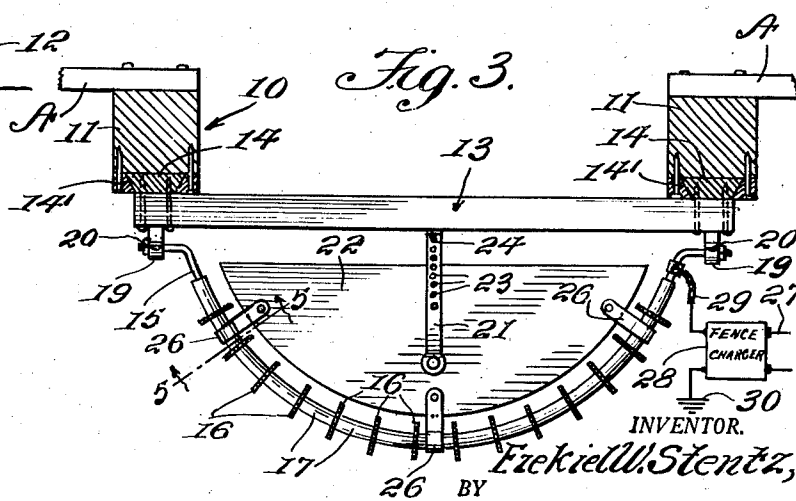
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2 Sheets-Sheet 2



INVENTOR.
Ezekiel W. Stentz,
BY
Victor J. Evans & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE

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ADJUSTABLE ELECTRIC GATE

Ezekiel Wood Stentz, Shelby, Ohio

Application May 1, 1944, Serial No. 533,537

3 Claims. (Cl. 256—10)

The invention relates to a gate construction, and more particularly to electrified adjustable gates.

The primary object of the invention is to provide a gate through the medium of which the smaller pigs of a pen or other enclosure may be separated from the larger, whereby to permit the smaller pigs to be separately fed, the gate being mounted for vertical adjustment to provide therebeneath an entrance or exit for a pen or other enclosure of such height as to permit the passage of pigs of the selected size, and the gate being provided with means adapted to subject to an electric shock any pig of a larger size attempting to pass through the entrance or exit.

Another object of the invention is the provision of a gate of this character, wherein the same can be adjusted for the separation of the smaller pigs from the larger ones, accordingly to a selected determined size of the smaller pigs, the gate being of novel construction and is unique for the purposes intended thereof.

A further object of the invention is the provision of a gate of this character, wherein the larger pigs are kept from crowding the small ones, particularly from a feed trough or stall, and thereby relieving injury to the weaker pigs or small sized ones.

A still further object of the invention is the provision of a gate of this character, which is simple in construction, thoroughly reliable and efficient in operation, strong, durable, conveniently adjusted, readily and easily latched in adjusted position, and inexpensive to manufacture and install.

With these and other objects in view the invention consists in the features of construction, combination and arrangement of parts as will be hereinafter more fully described in detail, illustrated in the accompanying drawings, which disclose the preferred embodiment of the invention, and pointed out in the claims hereunto appended.

In the accompanying drawings:

Figure 1 is a fragmentary elevation of a pigsty showing the gate constructed in accordance with the invention applied thereto.

Figure 2 is a vertical central sectional view thereof.

Figure 3 is a horizontal sectional view of the same.

Figure 4 is a detail sectional view showing one of the spur disks in side elevation.

Figure 5 is a sectional view on the line 5—5 of Figure 1.

Figure 6 is a sectional view on the line 6—6 of Figure 1, looking in the direction of the arrows.

Similar reference characters indicate corresponding parts throughout the several views in the drawings.

Referring to the drawings in detail, A designates generally a portion of a pigsty having at the opening 10 on opposite sides of the same vertical posts 11, which are anchored to the step 12, the sill portion of the said opening 10, in any suitable manner. These posts 11 slidably support a slatted gate 13, which at opposite side edges thereof is fitted with dove tail runners 14, these being slidably fitted in corresponding shaped vertical guideways or grooves 14' so that the gate 13 will be slidably interfitted with the posts 11, as is clearly apparent from Figure 3 of the drawings, to be raised or lowered at selected distances from the sill area of the opening 10.

Mounted on the bottom slat of the gate is an outwardly bowed or arched rail 15 carrying spaced spurtoothed disks 16, the spacing being had at 17, and this rail 15 is journaled in insulator sleeves 18 fitted within eyebuckles 19, which are secured to the gate 13 at 20. This rail 15 is vertically swingable and is held in adjusted position by a suspension strap 21 centrally fitted thereto through the medium of sector shaped filler board 22 and adjustably engageable by the holes 23 therein with a keeper hook 24 on a cross slat 25 upon the gate 13 as is clearly shown in Figures 1, 2 and 3 of the drawings. This filler board 22 is bracketed at 26 to the railing 15 to be rigid therewith, so that both the railing and board effect a canopy to the opening 10, when the gate is in a raised position.

The railing 15 is electrified through a current supply circuit 27, including a fence charger 28, the electrical connection 29 being had with this circuit, while the latter is grounded at 30.

The gate 13 is held in raised position by stop pins 31 selectively engageable in holes 32 provided in the posts 11 for resting position upon these pins at opposite sides of the opening 10, there being a bottom cross bar 33 on the gate. The pins 31 are hand removed and hand adjusted.

The railing 15 is suitably insulated from the board 22, and the electric shock through contact is had with the spur-toothed disk 16 associated with this railing.

In the use of the gate the railing 15 is set at the horizontal position, approximately at right-angles to the said gate and the latter is raised the required height to permit the smaller pigs to

pass through the opening 10, and should the larger pigs make the attempt to go through the opening 10, these will make contact with the disks 16 whereupon they will receive an electric shock through such contact and in this way turn away from the opening 10 without attempting to pass through the latter. In this manner the smaller pigs will become separated from the larger ones for the feeding thereof.

The railing 15 can be swung upwardly against the gate 13 and in this position avoids any contact of the pigs therewith, thus being in an ineffective position, so that the gate may be used as any ordinary gate.

What is claimed is:

1. A gate of the kind described, comprising spaced vertical supports, a gate slidably fitting the supports for opening and closing the space therebetween, an electrified railing vertically swingable upon the gate, means for suspending

the railing at an outward angle to the gate, and means for electrifying the railing.

2. A gate of the kind described, comprising spaced vertical supports, a gate slidably fitting the supports for opening and closing the space therebetween, an electrified railing vertically swingable upon the gate, means for suspending the railing at an outward angle to the gate, means for electrifying the railing, and spur-toothed disks carried by the railing.

3. A gate of the kind described, comprising spaced vertical supports, a gate slidably fitting the supports for opening and closing the space therebetween, an electrified railing vertically swingable upon the gate, means for suspending the railing at an outward angle to the gate, means for electrifying the railing, spur-toothed disks carried by the railing, and means for latching the gate in a raised adjusted position.

EZEKIEL WOOD STENTZ