

J. K. PUTT,
STALL.

1,385,273.

APPLICATION FILED JUNE 22, 1920.

Patented July 19, 1921.

2 SHEETS—SHEET 2.

Fig. 3.

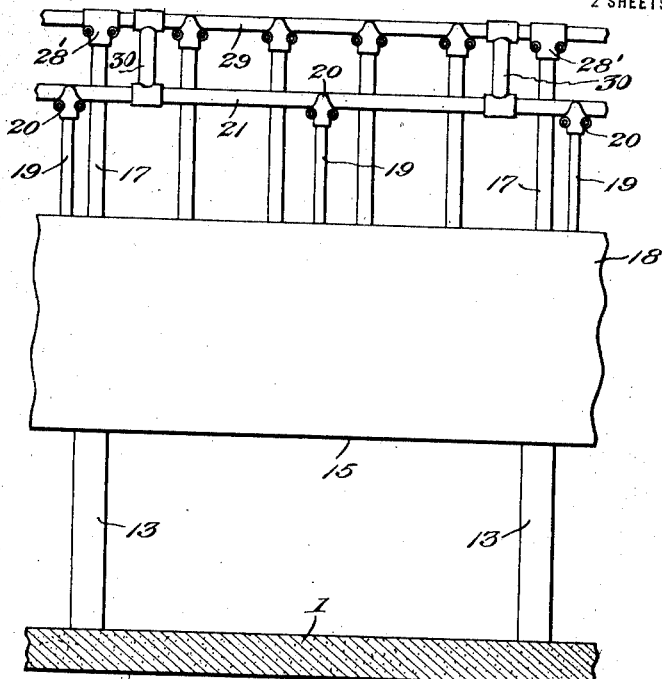
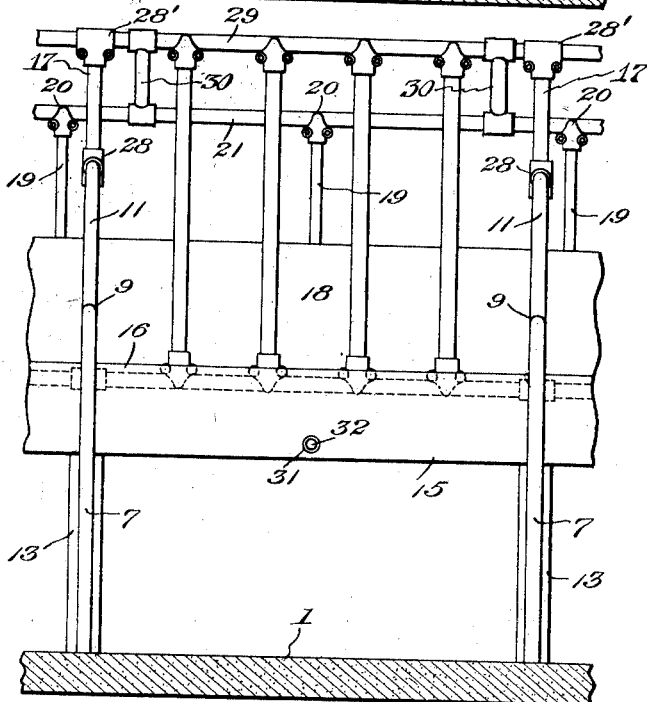


Fig. 4.



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WITNESS:

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To all whom it may concern:

Be it known that I, JAMES K. PUTT, a citizen of the United States, residing at Hershey, in the county of Dauphin and State of Pennsylvania, have invented new and useful Improvements in Stalls, of which the following is a specification.

The present invention has reference to stable constructions, and relates especially to the stalls or mangers therefor.

The primary object is to produce in a stable construction stalls or mangers having reinforced concrete floors and reinforced concrete feed troughs, the said stalls being divided from each other by means which reinforce the floor and the trough constructions.

Other objects and advantages will present themselves as the nature of the invention is better understood, reference being had to the drawings in which:

Figure 1 is a plan view of a portion of a stable construction in accordance with this invention.

Fig. 2 is a greatly enlarged sectional view approximately on the line 2—2 of Fig. 1.

Fig. 3 is a front elevation of one of the stalls.

Fig. 4 is a rear elevation thereof.

As disclosed by the drawings the floor 1 of my improved stable construction is formed of reinforced concrete and is provided with a longitudinal depression forming a gutter 2. The gutter, at determined intervals is provided with depending drain pipes 3 that communicate with an outlet pipe 4.

The drains 3 are preferably located approximately centrally of each of the stalls 5. The stalls are divided from each other by vertically disposed tubular members which have their lower portions entering the floor 1. The outer tubular member is indicated for distinction by the numeral 7, and the intermediate tubular members by the numeral 8. The outer member 7 is rounded upon itself and extended forwardly of the stall, as indicated by the numeral 9, and the members 8 are connected to this horizontal portion 9 in any desired or preferred manner, such as by couplings 10. The member 9 is rounded upwardly as at 11, and forwardly as at 12. Slightly forward of the intermediate part at the front of the stall there are vertically arranged concrete standards 13. On these standards, the inclined bottoms 14 of the feed troughs 15 rest. The

rear wall of the trough is indicated by the numeral 16.

Passing vertically through the standards 13, as well as through the base 14 of the troughs and entering the floor 1 are vertical tubular members 17 which are of a greater length than the first mentioned tubes. The front wall of each of the troughs 15 is rounded upwardly, as at 18 and has at its upper edge embedded therein vertical pipes 19 that project a suitable distance thereabove. These pipes 19 have at their upper ends couplings 20 whereby a horizontally disposed tube 21 is connected thereto.

The tube 8, next to the rear wall or lip 16 of the trough 15 is connected by a coupling 22 to a longitudinal tube 23 that is joined to the tube 17 by a coupling 24. Between the tube 23 and the upper element 12 of the front tube 17 there are short tubes 25 connected by suitable couplings 26 and 27 respectively. The end of the portion 12 of the tube 7 is connected by a coupling 28 to the tube 17, the said tube 17 projecting a suitable distance thereabove and having attached to its outer end coupling members 28' for a transverse tube 29. If desired, and preferably there is arranged between the transverse tubular members 21 and 29 angle tubes 30. These tubes 30 materially reinforce the front wall of the troughs.

The bottom of the base portion of the trough is inclined toward the rear wall thereof and the said rear wall is provided with preferably inclined openings 31 which communicate with the trough for each stall. These openings are closed by valves or plugs 32, and provide drains for the troughs.

While I have described the members which reinforce the standards and trough and which provide the sides and front of the stalls as tubes, it is to be understood that bars or rods may be employed in lieu thereof. It is to be noted that the members in addition to dividing the stable into stalls, materially reinforce both the floor, the standards and the troughs, and it is thought that the foregoing description, when taken in connection with the drawings will fully set forth the construction and advantages of the improvement without further detailed description.

Having thus described the invention, what I claim, is:—

1. In a stall construction for stables, a reinforcing concrete floor, spaced reinforcing

concrete standards arising therefrom at the front of the stalls, a reinforcing concrete trough resting on the upper edges of said standards, said trough having an upstanding rear portion and its front rounded upwardly from the standards, members embedded in the floor, and one of said members passing through the trough and standards for reinforcing the latter and for providing the stable with stalls.

2. In a stall construction for stables, a concrete floor, spaced standards comprising concrete blocks on the floor at the front of the stalls, a trough of reinforced concrete having a downwardly inclined base resting on the standards, an upstanding lip at the rear

of the trough, said trough having its front end rounded upwardly, vertically disposed members embedded in the concrete floor, certain of which pass through the trough and through the standards and divide the stable into stalls, longitudinal members connecting the upper ends of certain of the vertical members, a transverse element connected to the upper ends of the inner vertical members, vertical reinforcing members extending from the front end of the trough, and a transverse member connected to the outer ends thereof.

In testimony whereof I affix my signature.

JAMES K. PUTT.