C. M. STEVENSON.

STALL CONNECTION OR THE LIKE.

APPLICATION FILED MAY 28, 1917.

1,315,351.

Patented Sept. 9, 1919.

Fig. 1.

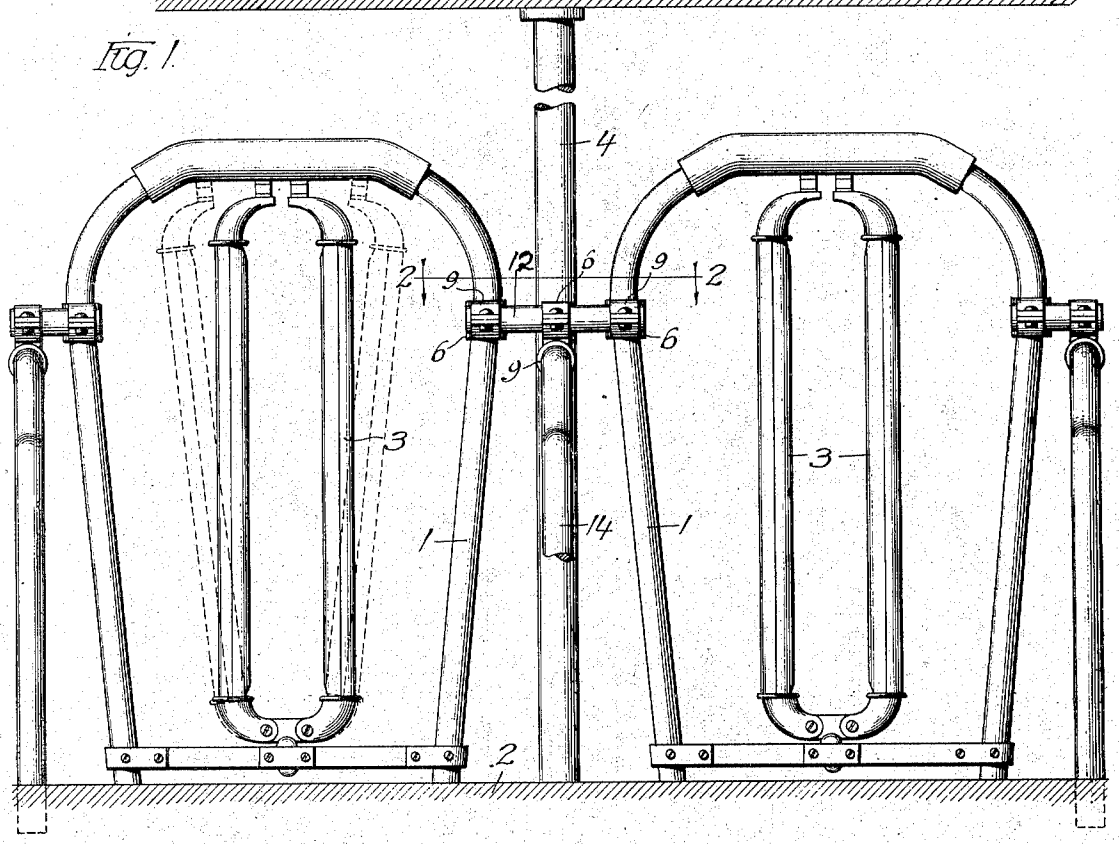


Fig. 2.

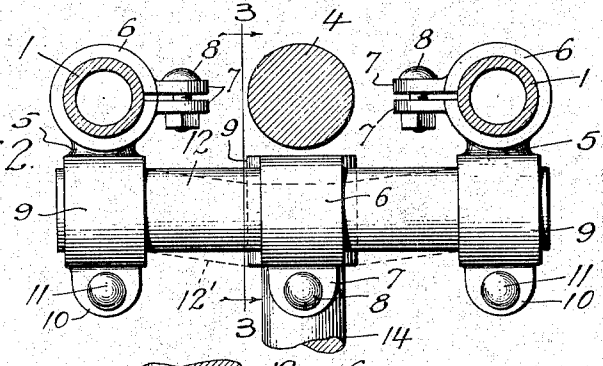
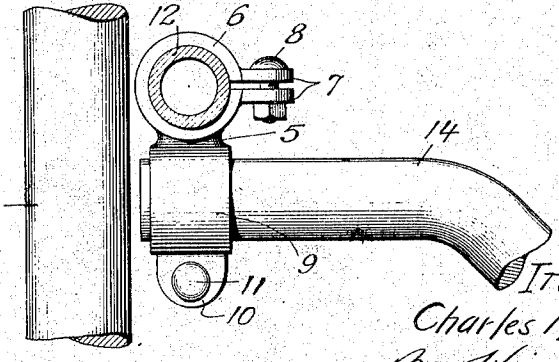


Fig. 3.



Witnesses:
Robert H. Weir
Arthur M. Parlow

Inventor:
Charles M. Stevenson
By Wise & Kiefer
Attys.

UNITED STATES PATENT OFFICE.

CHARLES M. STEVENSON, OF ROCKFORD, ILLINOIS, ASSIGNOR TO IOWA GATE COMPANY, OF CEDAR FALLS, IOWA, A CORPORATION OF IOWA.

STALL CONNECTION OR THE LIKE.

1,315,351. Specification of Letters Patent. Patented Sept. 9, 1919.

Application filed May 28, 1917. Serial No. 171,461.

To all whom it may concern:

Be it known that I, CHARLES M. STEVENSON, a citizen of the United States, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Stall Connections or the like, of which the following is a description.

My invention belongs to that general class of devices known as couplings, and relates particularly to a device for connecting or coupling together the stall and partitions employed in barn equipment. The invention has among its objects the production of a device of the kind described that is simple, convenient, durable, efficient and satisfactory for use wherever found applicable. It has particularly among its objects the production of a device for rigidly and securely coupling or connecting the stall parts and partition members in a simple and convenient manner, and will also permit width between the stalls to be made as desired. The parts are also constructed and connected together, that in case of there being columns or posts in the barn, in or proximate the line of stalls, the same will not in any way interfere with the installation of the equipment. Many other objects and advantages of the construction herewith shown and described will be obvious to those skilled in the art from the disclosure herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claim.

In the drawings, wherein like reference characters indicate like or corresponding parts,

Figure 1 is a view in elevation of a plurality of stalls and partitions illustrating the application of the device;

Fig. 2 is a sectional view taken substantially on line 2—2 of Fig. 1, and

Fig. 3 is a sectional view taken substantially on line 3—3 of Fig. 2.

Referring to the drawings, 1 represents any suitable style of stall construction, head frame, or the like, mounted upon the curb 2, or its equivalent, in any satisfactory manner, and carrying the stanchions 3. The particular stall construction shown is merely to illustrate the application of my improved connection, and the stanchions represent any type of stanchion, whether single or double acting. For illustration, or clearly demonstrating the advantages of the construction, I have also shown a post or column 4, which happens to be arranged between the two frames 1, and which with the ordinary arrangement of barn equipment, would be in the way and have to be removed or the equipment materially changed or placed to avoid the same. My construction is not only intended to couple the stall head frames together, but also to carry a stall partition. In this connection it would ordinarily be difficult in the usual constructions to arrange the partition if this should happen to come opposite a post or column similar to 4. In carrying out the invention, I provide a plurality of suitable clamping or coupling members 5, together with a suitable cross-bar or pipe, which bar connects the stall frames and supports the front end of the partition.

Referring particularly to Figs. 2 and 3, it may be mentioned that I prefer to make all of the couplings similar, so that they may be interchanged regardless of whether the same is used to couple the short bar to one of the stall heads or to the partition. Each clamping member 5 is provided with a clamping part 6, broken or cut away at one side, formed to embrace the pipes or bars, and having flanges 7—7, 8 being a screw or bolt for locking the flanges together and securely clamping the parts on the pipe. Each bracket is also provided with a similar clamping part 9, flanged as at 10—10, and arranged to be secured together by a screw or bolt 11. As shown, the openings through 6 and 9 extend at an angle to each other. A pipe or bar 12 of the desired size and length is also provided.

In assembling the connection or coupling for the frames and partition, a part 5 is clamped to each stall head or frame 1, as most clearly shown in Fig. 1, with one of the parts extending rearwardly. The pipe or bar 12, carrying a similar clamp 5, is then secured in the clamping part 9 of each clamp 5 on the frames with the part 9 of one carried by the bar ordinarily depending therefrom, and most clearly shown in Fig. 3. The stall partition 14 is then clamped in the middle clamp, the rear partition end being secured to the floor or otherwise supported in any desired manner.

It will be noted that the clamps are all

similar or interchangeable, and as before mentioned, the pipe or bar 12 may be the desired length, this depending upon the distance the stanchion heads or frames are to be from each other. The clamp carrying the partition 14 may be arranged at the desired point, this permitting the one stall to be wider or narrower than the adjacent stall. In case a column or post 4 is arranged, for example substantially as shown in the line of the head 1, it will be noted that the device clears the same, so that it is not necessary to remove the column or move the stall frames to provide clearance. Obviously, if the clearance with the straight bar is not sufficient, the bar or pipe 12 may be bent as indicated at 12′ by the dotted lines. In some cases the partition bar and clamp might not be used, but only the cross-bar and clamps for securing the same in place. In this case the stall frames would be rigidly secured together and post clearance be provided. The device is exceedingly simple and convenient to install, and is economical in cost. It may be mentioned that it is not likely to in any way injure the stock and presents an attractive appearance.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:—

In a stall connection of the kind described and in combination, a connection for adjacent stall frames, consisting of a bar slightly longer than the desired distance between the stall frames, means for clamping one end of said bar to one stall frame, and the other end to the other stall frame, and means for clamping a partition bar to the same intermediate said first mentioned clamping means, each of said clamping means comprising a body part having an opening therethrough and split at one side thereof, means for drawing the parts at said split side together whereby the same is secured to a coöperating part, said body part having a similarly formed opening at the opposite end at an angle to the first opening whereby two parts may be secured together at substantially a right angle in different planes.

In testimony whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

CHARLES M. STEVENSON.

Witnesses:
L. C. ALLMAN,
GEO. F. WOOD.