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SANITARY FLOOR STRUCTURE

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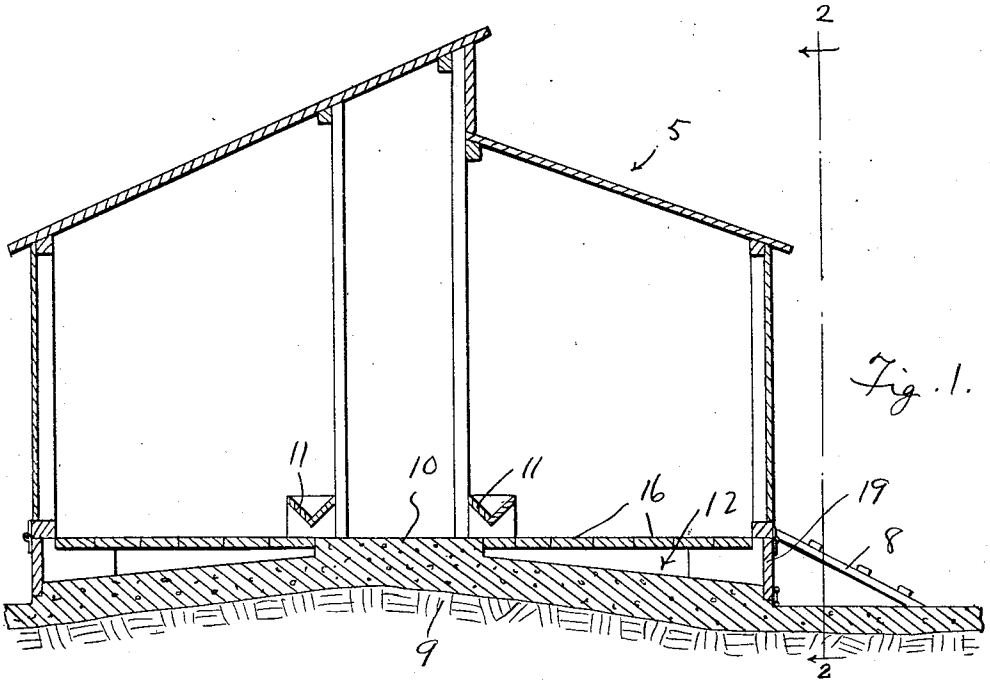


Fig. 1.

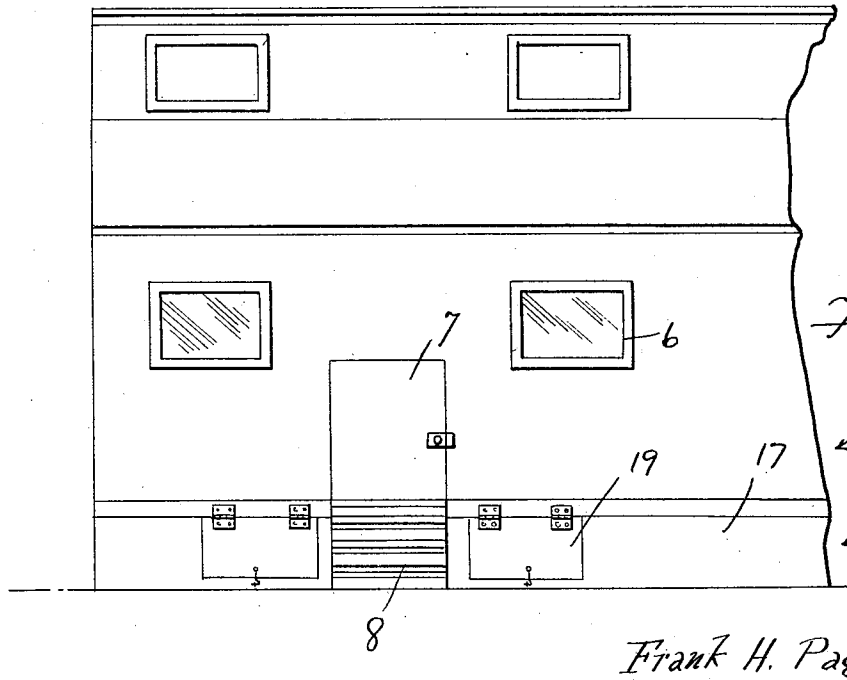


Fig. 2.

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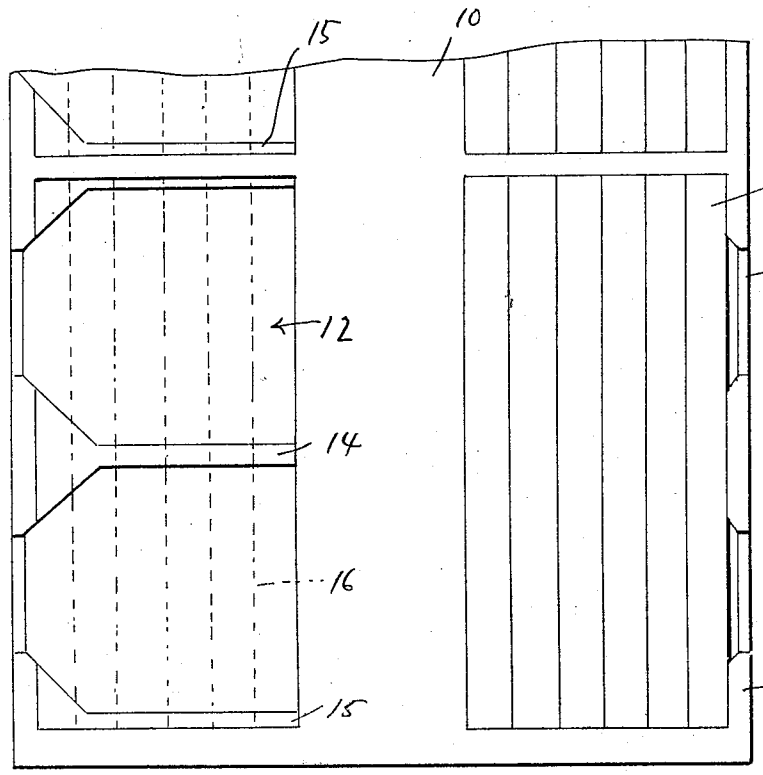
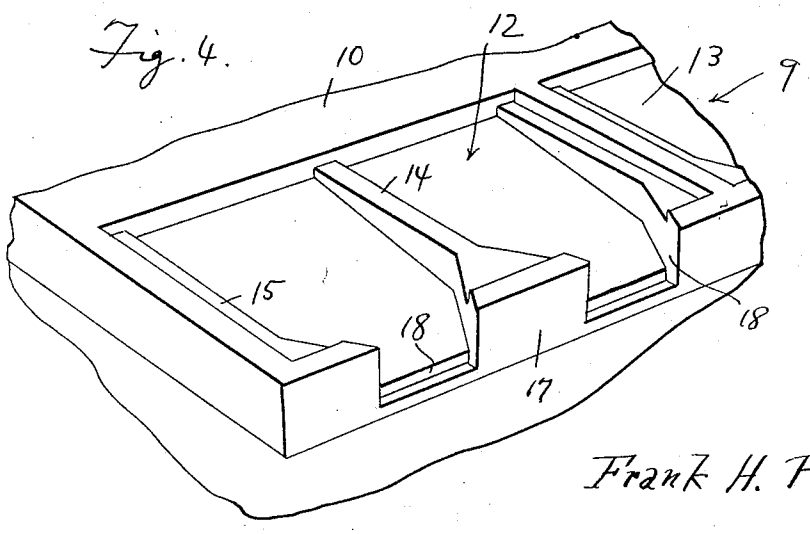


Fig. 3.

Fig. 4.



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SANITARY FLOOR STRUCTURE

Application filed June 11, 1928. Serial No. 284,624.

This invention relates to an improved sanitary floor structure for use in enclosures, such as are employed on farms for housing horses, cows and hogs, and it is particularly adapted for accommodation of hogs.

It is conceded generally that the concrete floors such as are used in hog sheds and the like are inappropriate and unhealthy. This is because of the fact that animals of this class are inclined to lie upon and rub themselves on the cold concrete.

Frequently the concrete is damp and sometimes covered with considerable moisture. When this dries, it is converted into a dust, and the animals, in racing back and forth stir up this dust and breathe it. This is detrimental to the animal.

I have conceived of a floor structure which is a combination of concrete and wood, the concrete being in the form of a sub-floor and the wood in the form of the main floor for the pens.

The particular structural features and advantages of this arrangement will become more readily apparent from the following description and drawings.

In the drawings:

Figure 1 is a transverse section through a housing constructed in accordance with the present invention and embodying an improved floor structure constructed in accordance with my ideas.

Figure 2 is a view taken approximately upon the plane of the line 2—2 of Figure 1, looking in the direction of the arrows.

Figure 3 is a fragmentary top plan view of the improved floor structure per se.

Figure 4 is a perspective fragmentary view of a portion of the concrete subfloor.

In the drawings, the reference numeral 5 desginates generally the housing provided with suitable window lights 6, an entrance door 7, and a runway 8, leading to the door.

As before intimated, the principal part of the improved floor structure is the concrete base or subfloor, which is generally designated by the reference character 9. This is formed into the shape shown in Figure 1, wherein it will be seen that the central raised section 10 is flat to provide an attendant walk. The pens (not shown) are formed on the opposite sides of the disc and inside the housing as shown in Figure 1 is a suitable trough 11 for feeding purposes.

Referring to Figure 4, it will be seen that the concrete is formed to provide a multiplicity of longitudinally spaced refuse and seepage collection pockets 12.

These have inclined bottoms 13 and are divided by the presence of partition pieces 14. At suitably spaced points, ledges 15 are provided, and the floor boards 16 are supported on these, as better shown in Figure 3. The upstanding rims 17 are formed with openings 18 for each pocket and hingedly mounted doors 19 cooperate with these openings.

As is obvious this structure is duplicated on each side of the flat central walkway 10. With this arrangement, the seepage, dirt, dust and extraneous matter finds its way down between the cracks between the adjacent edges of the floor boards where it accumulates in the pockets. It can then be raked out from the pocket by opening the doors 19.

As before indicated, a floor structure of this character is believed to be advantageous, in that it provides a better footing for the hogs and promotes better health and maintains a sanitary condition within the housing.

While the description and drawings show a structure particularly adapted for use in housing hogs, I wish to make it plain that the invention is not restricted for this purpose, since it may be embodied in horse stables, cow sheds and the like.

A careful consideration of the description in connection with the drawings will permit a clear understanding of the invention and advantages to be had by persons skilled in the art to which the invention relates.

Therefore a more lengthy description is regarded unnecessary.

Minor changes in the shape, size, and arrangement of parts coming within the field of invention claimed may be resorted to, if desired.

I claim:

1. A floor structure comprising a concrete

sub-floor embodying a central raised flat top portion forming a walk, said sub-floor on opposite sides of the walk sloping downwardly therefrom at a point below the top of the walk, ribs extending laterally from opposite sides of the walk and terminating at the outer edge of said sloping portion, said ribs projecting upwardly from said last mentioned portion to provide a plurality of refuse receiving pockets, said ribs at their free ends being enlarged to provide restricted outlets for said pockets, and floor boards extending across said pockets and supported on said ribs, said floor boards being disposed substantially flush with the top of said walk.

2. A floor structure comprising a concrete sub-floor embodying a central raised flat top portion forming a walk extending for the full length of said sub-floor, said sub-floor on opposite sides of the walk being provided with a plurality of refuse receiving pockets, said pockets having inclined bottom sloping downwardly from the sides of said walk and from a point below the top of said walk, partition members in the respective pockets, said partition members rising from the bottom of said pockets, said pockets on opposite sides of the partition being provided with an outlet opening, whereby a rake or the like may be inserted in the respective pockets on opposite sides of said partition for removing the refuse therefrom, and a plurality of longitudinally spaced floor boards extending across the respective pockets flush with the top of said walk, and the partitions of the respective pockets forming supports for the intermediate portions of said floor boards, hingedly mounted doors for closing the openings of said pockets.

In testimony whereof I affix my signature.

FRANK H. PAGE.