

C. J. BEAR.
ANIMAL SHELTER.
APPLICATION FILED FEB. 18, 1910.

970,873.

Patented Sept. 20, 1910.

Fig 1

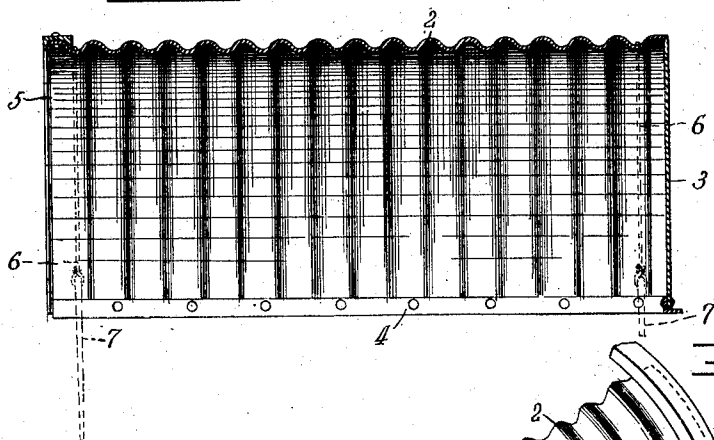


Fig 2

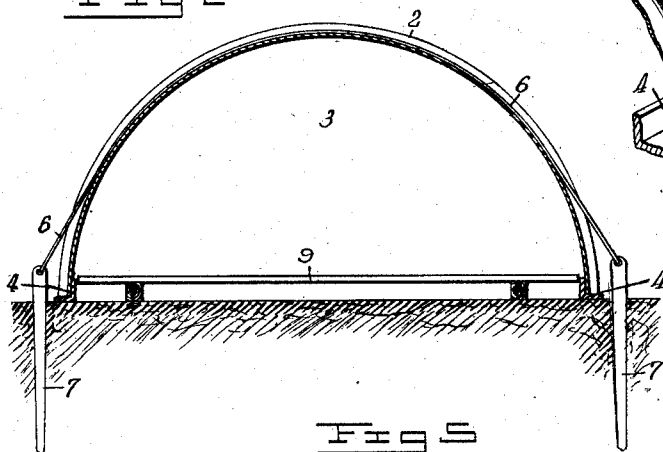


Fig 3

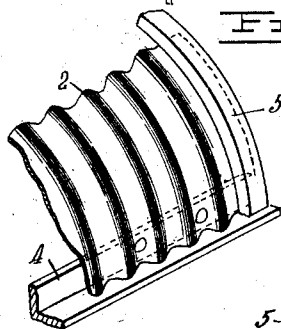


Fig 4



Fig 5

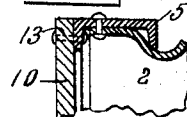
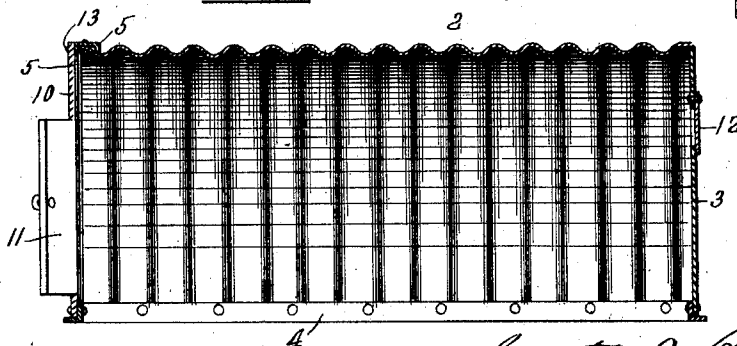


Fig 5



Inventor

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UNITED STATES PATENT OFFICE.

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ANIMAL-SHELTER.

970,873.

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To all whom it may concern:

Be it known that I, CARLTON J. BEAR, a citizen of the United States, residing at Monticello, in the county of Piatt and State of Illinois, have invented new and useful Improvements in Animal-Shelters, of which the following is a specification.

The present invention relates to farrowing pens, and is designed particularly for use with breeding sows, although it will be understood that it may be used as shelter for other small live stock such as sheep and goats, and, furthermore, if desired it may be utilized as a shelter for poultry, to which use it is well adapted.

It is designed particularly for use in fields which may, in some instances, be far distant from the farm buildings and where it is extremely desirable that temporary shelter be given to the litters.

It contemplates the provision of a shelter which will be weather proof, which may be readily moved from place to place, which will be strong enough to withstand the ordinary service and uses to which these shelters are put, and, furthermore, which will be durable and which can be produced at a very cheap initial cost, and so far as repairs are concerned may be maintained at nominal expense.

In the drawings which accompany and form a part of this specification I have illustrated one embodiment of my invention, and in said drawings—Figure 1 is a longitudinal vertical section of a pen made in accordance with my invention. Fig. 2 is a transverse vertical section. Fig. 3 is a detail view, illustrating the frame structure of the pen. Fig. 4 is a detail sectional view to show the relation of dome and sill-frame. Fig. 5 is a transverse longitudinal sectional view showing the invention provided with a front and swinging door, and a ventilator in the rear wall. Fig. 6 is a detail showing the manner of attaching the front to the shelter proper.

Referring to the drawings by numerals, like numbers indicating like parts in the several views, 2 denotes the body portion of the shelter, which is preferably made of light corrugated metal bent into the dome-like form shown, one end of this dome-like body portion being closed by a suitable back 3 as clearly shown in the longitudinal section, Fig. 1. The sheet metal portion just described rests upon, and is secured by rivets

or in any other manner, to a sill frame 4 of L-shaped angle iron of light gage, but sufficiently heavy to give a good stiff base for the sheet metal shelter, this angle iron frame being substantially U-shaped in plan, open in front, and having the metal shelter secured to it in the manner described, so that an open front shelter having a rigid base or support is provided. If desired this frame or support for the sheet metal dome-shaped portion may be of rectangular form, as shown in Fig. 5, and one limb of the rectangular frame may extend across the open front so as to give great rigidity to the structure, and in the form of the invention shown in Fig. 5, where a front is provided, I preferably do use the rectangular frame as this provides a good support for the wooden front, as will be described hereinafter. The shelter thus formed is light, but rigid, and in order that the curved front of the dome-shaped portion 2 may be further stiffened I provide it with an arch-shaped stiffening rib 5, of channel iron, so that, as shown in Figs. 1 and 3, it may be placed over the raw edge of the dome 2 at the front thereof, and secured by suitable rivets, thus stiffening the entire structure and protecting the raw or sharp edge of the dome 2. At the ends this arc-shaped stiffening rib 5 may be secured to the frame 4, on which the dome 2 rests, all as shown in Figs. 3 and 4, so that a relatively rigid structure is provided.

The structure is, of course, light, and in order that it may not be displaced or overturned by high winds, I preferably provide pins for securing it in place in the fields, such means being a guy wire 6 which is secured at either end to stakes 7 of any suitable material and which when in use is laid across the dome-shaped body portion 2 of the shelter preferably at front and rear ends thereof, the wire lying in the corrugations and the stakes 7 being driven down on either side preferably close to the shelter, until the wire 6 is drawn tightly across the dome 2 and the shelter pinned securely to the ground. It will be seen that by providing the corrugated dome surface, an effective locking seat for the wires is formed and slip of the wires longitudinally of the dome prevented, so that displacement of the shelter by animals or by high winds and its release from the securing wires is practically impossible.

I may or may not provide this shelter with a suitable flooring, and this flooring, as shown in Fig. 2, comprises the floor boards 9 resting upon sills, as clearly shown in the sectional view, Fig. 2.

I have heretofore stated that the shelter may, if desired, be provided with a front, and provision may also be made for ventilation, and in Fig. 5 I have shown such a construction, in which, it will be seen, a wooden front 10 is provided which is secured in place in the front aperture of the shelter, this front 10 being snugly fitted against the dome stiffening arch 5 and resting at its base on the base flange of the bottom frame, and its top being secured by suitable pins 13 which pass through apertures in a flange of the arch 5 into the edges of the front 10 and hold it securely in place. Said front 10 is preferably provided with a door 11, which, as shown in the present case, is a swinging door, although obviously it may be of any type desired. In order that the shelter, when provided with a front, may be properly ventilated, I preferably provide this form with a swinging ventilator 12 in the rear wall, this ventilator controlling an opening therein, so as to admit more or less air.

The shelter which I have invented is cheap to construct, light to handle, and absolutely weatherproof in use. In the form shown in Fig. 1, it will be seen that it may be nested in numbers for shipment and storing so as to occupy but little room.

Obviously such departures from the present disclosure as amount to mechanical deviations only, may be made without departing from the spirit of my invention, and for that reason I do not restrict myself to the details of construction shown and described.

What I claim is:

1. An animal shelter comprising a rigid sill-frame formed of angle-iron and having its direction of length including a substantially U-shaped configuration, a dome of corrugated sheet metal permanently carried by said sill-frame, and secured to the vertical flange thereof, and guy wires extending laterally of said dome and provided with ground connections at their ends out-

side of and adjacent to the sill-frame to prevent lateral shifting of the shelter, said guy wires and depressions in the corrugated sheet metal of the dome engaging each other so as to prevent shifting and longitudinal displacement of the shelter.

2. An animal shelter comprising a sill-frame of angle-iron L-shaped in cross-section, said frame having its direction of length including a substantially U-shaped configuration, an open-front dome of corrugated sheet metal riveted to the vertical flange of said sill-frame, means permanently carried by the dome and frame for stiffening and protecting the raw forward edge of the dome, guy wires passing laterally over said dome and lying in the depressions of the corrugated metal so as to prevent longitudinal shifting and displacement of the shelter, said guy wires having ground pegs or connections outside of and adjacent the sill-frame to prevent lateral shifting of the shelter.

3. An animal shelter comprising a rigid sill-frame formed of angle-iron, a sheet metal dome carried thereby, and having a closed back and an open front, and a dome stiffening and edge protecting arch of channel iron springing from the rigid sill-frame and inclosing the raw edge of the sheet metal dome at the front thereof, said channel iron being secured to both the sill-frame and the dome.

4. An animal shelter comprising a sill-frame formed of angle-iron L-shaped in cross-section, a dome of corrugated sheet metal, the lower edges of which are riveted to the outside of the vertical flange of said sill frame, and a dome stiffening and edge protecting arch of channel iron springing from the rigid sill-frame and secured at its lower ends to the vertical flanges thereof, said arch inclosing the raw edge of the dome front.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CARLTON J. BEAR.

Witnesses:

MERLE CLINE,
FRANK HETISHEE.