June 8, 1926. 1,588,321

F. W. LORD

ADJUSTABLE ROOF SADDLE FOR BROODER HOUSES

Filed Oct. 19, 1925

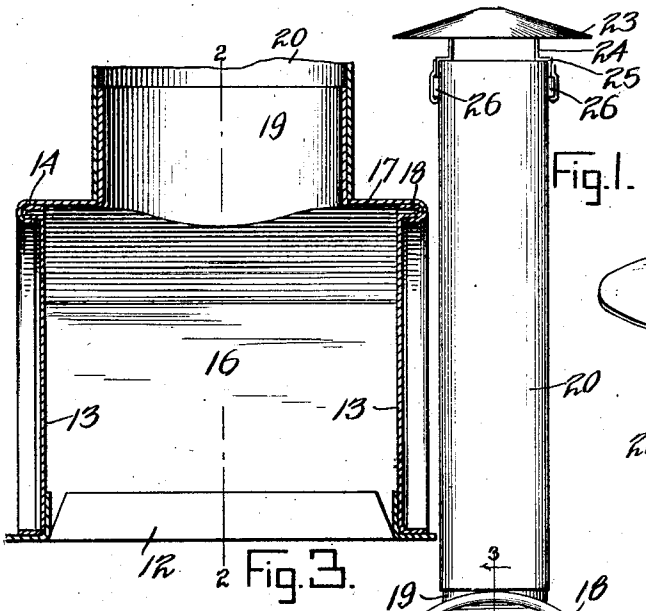


Fig. 1.

Fig. 3.

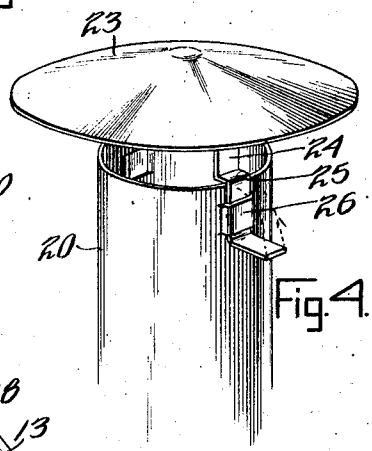
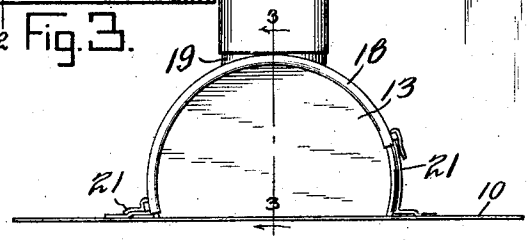


Fig. 4.



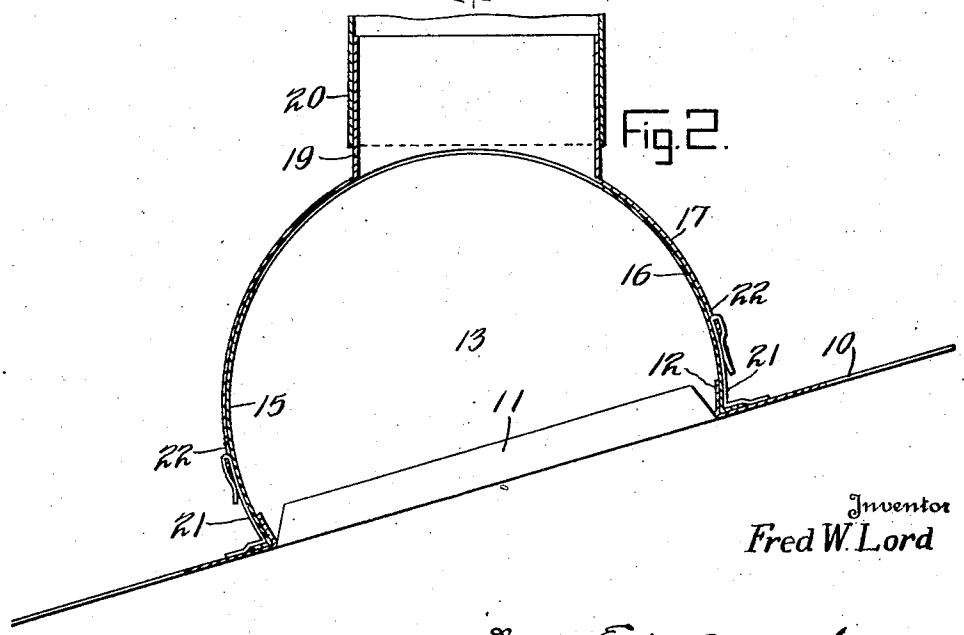


Fig. 2.

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By

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Patented June 8, 1926. 1,588,321

UNITED STATES PATENT OFFICE.

FRED W. LORD, OF TIPTON, INDIANA, ASSIGNOR TO THE OAKES MANUFACTURING COMPANY, OF TIPTON, INDIANA, A CORPORATION OF INDIANA.

ADJUSTABLE ROOF SADDLE FOR BROODER HOUSES.

Application filed October 19, 1925. Serial No. 63,567.

My said invention relates to an adjustable roof saddle for brooder houses and it is an object of the invention to provide a device of this character having a hood adjustable to the inclination of any roof with an opening beneath the hood sufficiently large to allow the stove pipe from a brooder stove to enter the saddle adjacent the stack when the hood is secured in any adjusted angular position on the roof.

Another object of the invention is to provide a roof saddle which will not leak or allow the water to run down on the brooder stove and made of material which will not rust.

A further object of the invention is to provide a device of this character having means for fastening the hood in adjusted position and for fastening the ventilator cap on the upper end of the stack making it unnecessary to drive nails in the roof and wire the stack in position or prevent it from being blown down by the wind, and at the same time eliminating any possibility of a leaky roof.

Referring to the accompanying drawings, which are made a part hereof and on which similar reference characters indicate similar parts,

Figure 1 is a side elevation of a roof saddle and stack embodying the feature of my invention,

Figure 2, a longitudinal section,

Figure 3, a section on the line 3—3 of Figure 1, and

Figure 4, a detail perspective showing the manner of attaching the ventilator cap to the upper end of the stack.

The invention comprises a plate or body portion 10 having a flange about the same adapted to extend for a distance beneath the roof covering. An opening is formed in the body 10 and the metal is bent up at the sides to form flanges 11 and at the ends to form flanges 12. A pair of side members 13 are secured one at each side, to the flanges 11 and said members have their upstanding edges forming arcs of circles with the metal adjacent the curved edge bent outwardly at substantially right angles to the plane of the body and reversely bent to form opposed U-shaped grooves 14. A curved end member 15 is secured to one of the flanges 12, the ends of said end member being disposed in the grooves 14 and preferably of a width of substantially one-fourth the length of the arcuate periphery of the side member 13. Similarly an end member 16 is attached to the opposite flange 12 and said end member preferably extends for only about one sixth of the length of the arcuate periphery of the side member 13.

A hood 17 is provided and the same is curved to conform to the arcuate edge of the side members, while at the sides grooves 18 are formed for housing the U-shaped part of the side members 13. Said hood is shorter in length than the arc formed by the edge of the side members to permit the hood to slide upon the side members or have curvilinear adjustment. An opening is provided in the hood 17 nearer one end and a collar 19 is secured in said opening for receiving a stack 20. By means of the foregoing structure the stack 20 may be maintained in upright position while the plate or body 10 may be inclined to suit the inclination of the roof upon which the device is used.

In order to secure the hood 17 in adjusted position I preferably secure a strap 21 at each end of the opening in the plate 10 intermediate the extremities of the end members 15 and 16 and provide a slot 22 in the hood adjacent each end for reception of said straps. When the hood is properly adjusted the straps 21 may be bent over as shown in Figures 1 and 2 to secure the hood against further movement.

In order to prevent rain, snow and the like from entering the stack 20 I provide a cap 23 preferably of stamped metal of substantially conical shape. A pair of depending legs 24 are provided for holding the cap in position. Each leg 24 is preferably provided with a transversely extending portion or shoulder 25 adapted to seat on the upper end of the stack and maintain the cap properly spaced from the stack. The stack is provided with parallel transversely disposed slits and the metal 25 between the slits slightly offset to form a socket for the leg 24 of the cap. The extremity of the leg is bent upon itself as shown in Figures 1 and 4 to secure the cap firmly on the end of the stack.

The parts may be secured together in any desired manner as for example by spotwelding or the like.

It will be obvious to those skilled in the

art that various changes may be made in my device without departing from the spirit of the invention and therefore I do not limit myself to what is shown in the drawings and described in the specification but only as indicated in the appended claims.

Having thus fully described my said invention, what I claim as new and desire to secure by Letters Patent, is:

1. The combination of a plate adapted to be secured on a roof, said plate having an opening therethrough and upwardly extending curvilinear portions at opposite ends of the opening, a hood mounted over said opening abutting said curvilinear portions and capable of curvilinear adjustment, said hood having a slot adjacent each end, and straps on said plate extending through said slots and bent over to hold the hood in sealing engagement with the curvilinear portions, substantially as set forth.

2. The combination of a plate adapted to be secured on a roof, said plate having an opening therethrough and upwardly extending curvilinear portions at opposite ends of the opening, a hood mounted over said opening abutting said curvilinear portions and capable of curvilinear adjustment, said hood and plate being provided with a slot and strap connecting means at each end for holding the hood in sealing engagement with the curvilinear portion, substantially as set forth.

3. An adjustable roof saddle comprising a plate adapted to be secured on a roof and having an opening therethrough, upwardly extending portions at opposite sides of said opening having arcuate oppositely extending marginal portions, upwardly extending curvilinear portions at opposite ends of the opening, a hood mounted over said opening and having its extremities bent over and snugly enclosing the oppositely disposed marginal portions of the side members, said hood abutting the curvilinear portions and capable of curvilinear adjustment, and means for fastening the hood in fixed relation, substantially as set forth.

4. The combination of a plate adapted to be secured over an opening in a roof, said plate having an opening therethrough, upwardly extending side portions having oppositely disposed arcuate U-shaped margins providing opposed recesses, upwardly extending curvilinear portions at opposite ends of the opening having their ends disposed in said opposed recesses, a hood mounted over said opening abutting said curvilinear portions and capable of curvilinear adjustment, said hood having its extremities bent over and snugly engaging the marginal portions of the side members, and means for securing said hood in fixed relation, substantially as set forth.

5. The combination of a plate adapted to be secured on a roof, said plate having an opening therethrough, a hood mounted over said opening and having an upstanding stack said hood being adjustable to permit the plate to be adjustable to conform to the inclination of the roof, straps on the plate at each end of the opening therein, said hood having slots for the reception of said straps whereby they may be bent over to prevent relative movement between the plate and hood, a stack on said hood having a pair of spaced slots in each side, a cap for said stack having a pair of legs provided with offset portions adapted to bear on the upper end of the stack and extend through said slots for securing the cap in position, substantially as set forth.

In witness whereof, I have hereunto set my hand and seal at Tipton, Indiana, this 14th day of October, A. D. nineteen hundred and twenty-five.

FRED W. LORD. [L. S.]