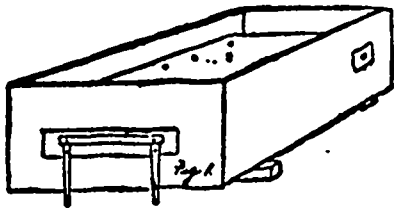


The Poultry Yard.

HOT AIR INCUBATOR.

The machine is a good, reliable hatcher. The general appearance outside is shown in Fig 1. A cross section of interior is Fig 2. For Fig 3 see Page 90. In making, begin with the heater, Fig 3. It is 3x4 ft and 6 in high, made of boards nailed together box fashion, with a top of matched boards tightly fitted. The hole in the center



of the top is for a $\frac{3}{8}$ in bolt. The three holes, 3 in from opposite edges of the top, are for six escape pipes 15 in long and $\frac{3}{8}$ inches in diameter. There are two holes in the side of the heater, located 8 in from opposite corners. One of these holes is shown in Fig 3. They are each 4 inches in diameter. Over these two holes nail pieces of tin containing round holes $2\frac{1}{2}$ inches in diameter for the lamp pipes. In the corners inside and under each of these holes, nail a piece of tin 1 ft square, locating it $\frac{1}{2}$ in from the bottom, turning down $\frac{1}{2}$ in of the two edges of tin not nailed. The tins are to prevent overheating under the lamp pipes.

Cover the bottom of the heater with zinc, in the center of which should be

er than the bottom of the heater. Fit the front boards carefully around the end of the drawer. Cut holes in the outer box for the entrance of the lamp pipes corresponding to those in the heater, using tins on the outside. The portion of the lamp pipes which pass through the sawdust must be protected with small boxes of sand around each pipe. In making the lamp and escape pipes, it will be necessary to secure the help of a tinsmith. The lamp and escape pipes are made in sections like stovepipes and the ventilator pipes may be soldered. The lower end of the escape pipes is tapered to a point so as to limit the draft when they are pushed down near the zinc floor. Make the lamp pipes $2\frac{1}{2}$ in in diameter, with elbows, allowing the pipes to extend into the heater 3 in at one end, and the elbow at the other end to fit a tin lamp chimney. The lamp chimney should have a small isinglass window fitted in, placed so that the lamp may be seen. Regular incubator lamps are the best, but any lamp, holding a large amount of oil and with a No 2 burner, will answer. Place it on a slide so that it can be easily pulled out for trimming.

In Fig 1 it will be noted that a handle and two supports are nailed on front of the egg drawer. The supports are to hold up the drawer when it is drawn out. The legs are made 3 in longer than the incubator in order to allow for two pieces of joists which are placed under the sides of the incubator to allow air to get underneath into the ventilating pipes.

To get the incubator ready for work, put sand into the sand boxes around the lamp pipes. Fill the ventilator box with sawdust up to within 1 in of the

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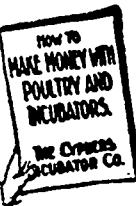
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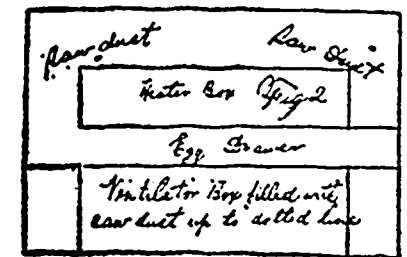
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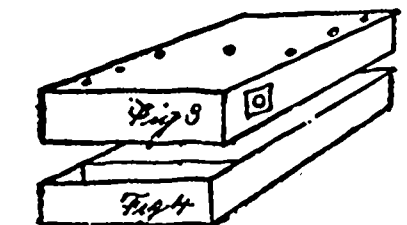
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a hole for the $\frac{3}{8}$ in bolt which goes through the heater and is tightened on top. Use lath strips to fasten on the zinc. The egg drawer is shown in Fig 4. It is 5 in high in front, 4 ft 9 in long and 2 ft 11 $\frac{1}{2}$ in wide. At the front end 8 in of the drawer is partitioned off for sawdust, and has a board floor. The rest of the drawer is covered with a strip of coarse muslin and slats 1 in wide and 1 in apart, nailed on crosswise, through the muslin.

For turning the eggs, make a frame with beveled cross slats. This frame should be 3 in shorter than the egg drawer and just wide enough to move easily. For hens' eggs the slats should be $\frac{3}{8}$ in high, $\frac{1}{2}$ in across the bottom and 1 $\frac{1}{2}$ in apart at the top. Moving the frame back and forth on top of the eggs will turn them sufficiently.

Fig 5 shows the ventilator box and the bottom of the incubator. The box is 3x4 ft and 8 in high. The $\frac{1}{2}$ in holes, 12 in number, furnish air from beneath through 8 in pipes extending through the holes. The sides of the ventilator box extend out even with the bottom of the incubator, with a draw to slide on. Place the drawer on the incubator



bottom, the heater on the drawer and fasten the heater and ventilator together with boards 1 ft wide nailed on the sides and back, nailing loosely so as to allow moving the drawer back and forth. The boards on the sides must project the same at the front as do the sides of the ventilator. To keep sawdust from falling into the drawer, fit an 8 in board over the front of the drawer. Next make an outer box for sawdust, using the bottom of the incubator as a guide, and building the box 9 in high-