HOME MADE INCUBATOR.

Not Difficult to Make, and Recommended for Cheapness.

We give an illustration of a brooder in use (Fig. 1), and select it because it is one of the best, being easily made, and at a low cost, and because it has been tried and found to answer all purposes.

By referring to Fig. 1 it will be seen that the top is detachable, being lifted off by the handle when desirable. Although the lower part of the brooder is above ground, yet, if preferred, it can be sunk in the ground, provided the holes to admit cold air to brooder and smoke from lamp to escape are left above the surface of the ground. Space must be left to admit of getting at the lamp if brooder is in the ground. Either a No. 2 burner lamp or a small kerosene oil stove may be used for heating the brooder. Be careful to leave air holes at the bottom of the door, or the lamp will smoke. Keep the brooder at a temperature of 90 degs.

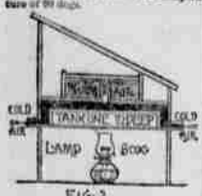


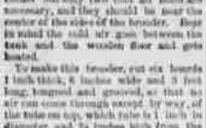
FIG. 2.
SECTIONAL VIEW.

Fig. 2 shows the lamp or kerosene oil stove, if preferred) under a short iron tank. It heats the tank, the smoke of the lamp passing out at four holes placed at each corner of the brooder, which distributes the heat. The cold air enters around the tank and is drawn right over above the lamp, as the cold air rushes in as fast as the warm air rises. The hot air rises through a tube in the floor. It will be seen that the smoke of the lamp does not pass into the brooder, and that the tube in the brooder extends through the wooden floor only. The brooder is a yard square, but the tank may be smaller; the box containing the lamp is ten inches deep, and the

TANK: HOW TO CONSTRUCT IT.

space between the top of the tank and wooden floor is half an inch. The curtain in front of brooder is simply a piece of cloth cut into strips. The inside sides of the lamp should be at each corner but only two cold air holes are necessary, and they should be near the center of the sides of the brooder. Bear in mind the cold air goes between the tank and the wooden floor and gets heated.

To make this brooder, cut six boards 1 inch thick, 8 inches wide and 3 feet long, tongued and grooved, so that no air can come through except by way of the tube on top, which tube is 1 inch in diameter and 9 inches high from the



floor. These boards are your floor. On the under side of this floor, at the edges, nail strips all around (as sills and sides, the strips being 1 inch thick and 1½ inches wide. Then set your tank as shown in cut. You will then have an air space between the floor and tank of half an inch. Be sure and cut air holes to admit the cold air. You may simply have open holes or may use tin tubes if preferred. The holes need only be a half inch in diameter. You can now easily fit on the lower box and also make the covering on top, as may be seen by the illustration.

This brooder is an old English method, taken from "Lewis' Poultry Book, of 1811," and it shows that upward currents

of warm air have been in use for many years for both hatching and brooding. Fig. 5 shows the brooder with lamp and tank above ground. Fig. 2 shows a sectional view of the same. Fig. 4 shows the lower part of brooder under ground, with trap door for getting at the lamp. Fig. 3 shows the cooker which covers the sticks, with adjustable pegs or legs. The tank is from Lewis, the top from Rankin, while the cooker is from Bell and others.—Farm and Garden.

Saving Oil.

A centrifugal machine is now used in engineering workshops by means of which 75 per cent of the oil remaining in the metal cuttings from drilling and planing machines can be recovered. The oil is recovered oil is about forty to fifty gallons per ton of cuttings.—New York Commercial Advertiser.

For sunny mornings, take a fresh egg, beat it and thicken with pulverized sugar. Eat freely of it, and the heartiness will soon be greatly relished.

There is nothing far money with the small boy like of Sale. The minister is said to have stopped their manufacture and to have ordered the distribution of those made to the Aztec relicts.

A Valuable Knife.

An acquaintance of mine once breakfasted in the tavern at Amesbury, Mass. His attention was attracted to and riveted on a venerable gentleman at the table opposite, who constantly abused big pieces of cold apple pie into his mouth by means of a knife. The operative seemed it is did not hurry the operative; he could hardly use Gladstone now out of a sudden consideration and as distinguished a personage should consume cold apple pie for breakfast, and, more shocking yet, seem in the consumption remarkable with relish, patience knife.

"Tell me," said our friend to the waiter after the venerable stranger had left the room, "who was that old gentleman who shocked in that atrocious and yet so relishing way?"

"That, sir," answered Boniface gravely, as he drew himself up to his full height, "that, sir, was Mr. Whittier, our famous poet."

"Oh, if that's the case," cried our friend, "it's all right, call pie as cold pie. The free to say that whatever Mr. Whittier does needs no apology or justification."

Our friend meant it too. As an element of his character he acquired the very knife with which the famous poet had eaten the cold apple pie, and that knife is now one of his most valued possessions of the gentleman who gave us this interesting anecdote.—Eugene Field in Chicago News.

Remove Cold Stubborn Children.

By the common law, up to the date of Henry II, one-third of a man's goods went to his heirs or issue; descendants, one-third to his wife, and only the other third was at his own disposal.

The Romans law required a true and set forth reason to be assigned for disinherited children, or else that some heirs, however small, should notify that he disowned and not forgotten the existence of his child. This is the origin of the popular error that it is necessary to disinherit an heir by "leaving him off with a shilling." As a matter of fact, a man in England may now dispose of the whole of his goods and chattels as he thinks fit, and the judges will even at low sentimentalize room for sentiment, should the will be disputed as showing evidence that the testator had here been of unsound mind. According to Dr. Forbes Winslow, there is record of the fantastic will of an admiral insane being literally carried out.—All the Year Round.

A Northern's Opinion.

Mr. John Caraghar, a merchant at Caraghar, Fulton County, Ohio, says that Dr. Patrick's Pills are the best selling pills he handles. The reason is that they produce speedy and effective effect and are certain and thorough in their action. Try them when you want a reliable cathartic. For sale by Z. C. M. I. Drug Dept.

Bucklen's Arnica Salve.

The Best Salve in the world for Cuts, Bruises, Sores, Ulcers, Salt Rheum, Fever Sores, Tetter, Chapped Hands, Chilblains, Corns, and all Skin Eruptions, and positively cures Piles, or no pay required. It is guaranteed to give perfect satisfaction, or money refunded. Price 25 cents per box. For sale by A. C. Smith & Co.

Pneumonia and Bronchitis Carry off One-third of the Human Race.

It is not generally known that Pneumonia and Bronchitis carry off one third of the human race, but such are the facts, and what is more surprising, both of the above diseases result from neglecting a common ordinary cold. A cough should never be neglected. If it is every time you catch cold you cough harder, and it sticks to you longer. Ballard's Horehound Syrup is the best remedy in the world for Pneumonia, Bronchitis and all throat and lung troubles. If you have any throat trouble, call for Ballard's Horehound Syrup and take no other. Zion's Co-operative Mercantile Institution, Agents. 1*

Sportsmen Cures.

S. H. Clifford, New Canal, Wis., was troubled with Neuralgia and Rheumatism, his stomach was disordered, his liver was affected to an alarming degree, appetite fell away, and he was terribly reduced in flesh and strength. Three bottles of Electric Bitters cured him. Edward Shepherd, Harrisburg, Ill., had a running sore on his leg of eight years' standing. Used three bottles of Electric Bitters and seven boxes of Bucklen's Arnica Salve, and his leg is sound and well. John Speaker, Catawba, O., had five large Fever sores on his leg; doctors said he was incurable. One bottle Electric Bitters and one box Bucklen's Arnica Salve cured him entirely. Sold by A. C. Smith & Co's Drug Store. 1*

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This invaluable remedy is one that ought to be in every household. It will cure your Rheumatism, Neuralgia, Sprains, Cuts, Bruises, Burns, Frosted Feet and Ears, Sore Throat and Sore Chest. If you have Lame Back it will cure it. It penetrates to the seat of the disease. It will cure Stiff Joints and contracted muscles after all other remedies have failed. Those who have been crippled for years have used Ballard's Snow Liniment and thrown away their crutches and been able to walk as well as ever. It will cure you. Price 50 cents.

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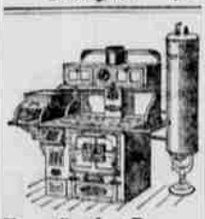

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Utah Central Railway

TIME TABLE.

In Effect April 1st, 1891.

Passenger Trains will Run Daily between Salt Lake and Park City, as Follows:

SALT LAKE CITY.

Trains	Leaves	Arrives	
1	Mixed	Park City	8.00 a.m.
3	Express	"	12.00 m.
5	"	"	6.00 p.m.
7	"	"	7.30 p.m.

PARK CITY.

Trains	Leaves	Arrives	
2	Mixed	Salt Lake City	10.30 a.m.
4	Express	"	3.00 p.m.
6	"	"	9.00 p.m.
8	"	"	1.00 p.m.

SUBURBAN PASSENGER TRAINS

Run Daily between Salt Lake City and West Ogden, as follows:

Leave Salt Lake at 6.45 and 9.00 a.m. and 4.30 and 6.00 p.m.

RETURNING,

Leave West Ogden at 7.10 and 9.30 a.m. and 5.00 and 6.30 p.m.

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RIO GRANDE WESTERN RY.

CURRENT TIME TABLE, APRIL 6, 1891.

East Bound Trains.	No. 1 Pacific Express.	No. 3 Atlantic Express.
Lv. Ogden	7.00 a.m.	8.00 p.m.
Lv. Salt Lake	9.40 a.m.	10.45 p.m.
Ar. Salt Lake	3.40 p.m.	6.45 a.m.
Lv. Salt Lake	3.50 p.m.	7.00 a.m.
Ar. Grand Junction	11.05 a.m.	11.05 p.m.
Lv. Grand Junction	11.40 a.m.	11.50 p.m.
Ar. Green River	1.40 p.m.	1.50 a.m.
Lv. Green River	1.45 p.m.	1.55 a.m.
Ar. Rock Springs	4.55 p.m.	4.55 a.m.
Lv. Rock Springs	5.00 p.m.	5.00 a.m.
Ar. Cheyenne	10.30 p.m.	10.30 a.m.
Lv. Cheyenne	10.40 p.m.	10.40 a.m.
Ar. Denver	1.30 a.m.	1.30 p.m.
Ar. Pueblo	4.30 a.m.	4.45 p.m.
Ar. Colorado Springs	5.40 a.m.	5.55 p.m.
Ar. Denver	8.00 a.m.	8.00 p.m.
Ar. Kansas City	7.30 a.m.	7.30 p.m.
Ar. Omaha	6.00 p.m.	6.00 a.m.

West Bound Trains.	No. 2 Pacific Express.	No. 4 Pacific Express.
Lv. Denver	9.00 a.m.	9.00 p.m.
Lv. Pueblo	10.15 a.m.	10.15 p.m.
Lv. Colorado Springs	11.05 a.m.	11.05 p.m.
Lv. Denver	1.30 p.m.	11.30 p.m.
Lv. Leadville	7.00 a.m.	7.00 p.m.
Lv. Grand Junction	4.05 a.m.	3.40 p.m.
Ar. Green River	4.50 a.m.	4.15 p.m.
Lv. Green River	4.55 a.m.	4.20 p.m.
Ar. Rock Springs	9.20 a.m.	8.45 p.m.
Lv. Rock Springs	9.30 a.m.	8.55 p.m.
Ar. Ogden	1.00 p.m.	12.30 a.m.
Lv. Salt Lake	1.05 p.m.	12.35 a.m.
Ar. Salt Lake	4.05 p.m.	3.35 a.m.
Ar. Ogden	6.00 p.m.	5.00 a.m.

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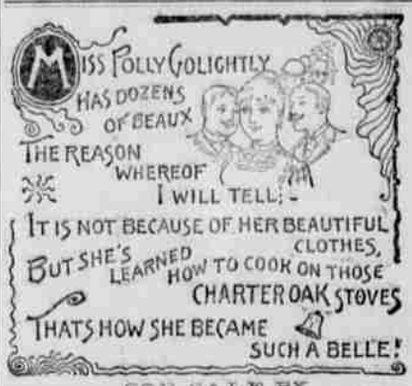

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