

IN FARM AND FIELD.

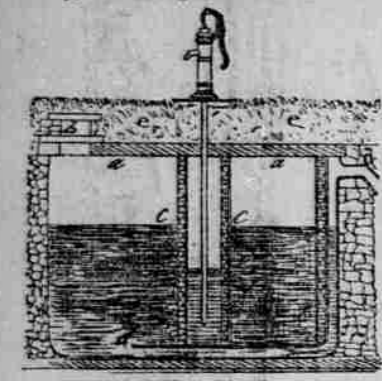
The Importance of Pure Water For Country Homes.

ELECTRICITY IN THE DAIRY.

The Late George Geddes' Plan for Filtering Rain Water Illustrated and Described—Three Classes of Fowls.

At this season of the year much impure water is used, causing a great deal of the sickness which prevails in summer. Boiling the water before using it modifies the danger. If used for tea or coffee the process is quite simple. If for drinking water it may be boiled and kept till wanted in a cold apartment or ice house in corked bottles or jugs. When there are mineral impurities that cannot be removed by boiling the water it is safest to use filtered rain water.

The late George Geddes for more than a quarter of a century used filtered rain water for all domestic purposes in his family, and during that time there had



CISTERN WITH A BRICK FILTER.

been no disease of a character resulting from the use of bad water. For several years he had used a brick filter, a section of which is represented in the accompanying cut. It was twelve feet long, and for convenience in covering only six feet wide. It would hold 4,000 gallons. The lower course of the cemented stone walls projected four inches into the cistern to prevent any cracks. The covering with six inch flag stones, fitted to the walls with cement, left no entrance except through the man hole b and the leader from the roof. A foot of earth rested on the cover, and the man hole flags included an air space shutting out frost. The roof should be kept clean, and the first water after a long drought excluded. The filter was a hollow brick cylinder, c c, with an inch air hole, and containing the pump. The water soaking through the four inches of brick became perfectly filtered, and was as pleasant to drink as any we ever tasted. The overflow, d d, carries off all sediment. A self acting valve, closed when no water is escaping, prevented the entrance of mice. Thanks are due to Country Gentlemen for the foregoing cut and its description.

Three Classes of Fowls.

For a long time poultrymen expected to combine in one fowl all the excellencies to be found in the various breeds. The abundance and quality of the flesh which characterizes the table fowl was to be united to the wonderful prolificacy which marks the great layers. The expectation has not been realized, it never will be. Antagonistic qualities can be combined only by robbing them of their antagonism. The great layer and the great table fowl are differently constituted, with different dispositions, and convert their food into different products. It is probable that general purpose fowls may be improved, that the nicest balance between their qualities has not been found, but the ideal general purpose fowl will never exist outside the imagination of its admirers.

There is need of all three classes of fowls. The man who raises poultry for market requires the table fowl; the one who produces eggs for general consumption needs the great layer, and hundreds and thousands of families which keep fowls to produce eggs and poultry demand the general purpose fowl. The general purpose is unquestionably the most popular fowl in the country, but the other two classes are steadily growing in favor, and as the number of those who make a business of keeping fowls increases the popularity of these classes will increase.—H. S. Babcock in Stockman.

Subsoil Plowing.

The subsoil plow follows the common plow and merely stirs and opens the subsoil without turning a furrow. The next round of the common plow covers the subsoiled furrow. Its benefit will depend wholly on the character of the soil. Soils containing vegetable matter that has not been drawn upon by the roots of plants owing to the former shallow cultivation will be improved by subsoiling or deeper plowing. On undrained, wet lands subsoiling would do more harm than good. Its good effect consists in deepening the soil and bringing more of it under the influence of cultivation. It would not dispense with manure; on the contrary, as the feeding area of the plants is increased more manure would be required unless the surface soil is rich, in which case subsoiling would not be necessary. Where land has been made poor by long cultivation and carrying away the crops with no return of plant food to the soil it cannot be restored to fertility by subsoiling or deep plowing. Manure must be applied along with rest and a judicious rotation of crops.

Electricity Applied to the Dairy.

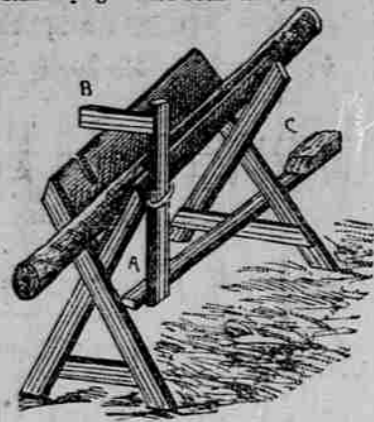
A foreign exchange calls attention to an interesting application of electricity to the dairy interest that has been made in Italy. The Count of Assia, whose buildings are fitted up with the electric light, has connected his dairy plant with an electric motor of twelve horse power. This machine drives a Danish separator and a Danish churn, churning being conducted at the rate of 120 to 160 revolutions per minute, the butter being brought in from thirty to thirty-five minutes in fine grains, which it is now recognized enables the maker to produce the finest article. A pump is also worked in the dairy.

Charlie's Marketing.
Mr. Youngusband—Isn't there a piece of old leather in the house anywhere, Bee? I want some in the worst way.
Mrs. Youngusband—No, Charlie, there isn't. (Happy thought strikes her.)
But, Charlie dear, there's that steak you bought day before yesterday, you know.
—Burlington Free Press.

FARM CONVENIENCES.

An Improved Sawbuck—A Tamping Rod for Setting Posts.

The object of the sawbuck depicted in the first cut is to enable the operator to stand upright with both feet on or near



A CONVENIENT SAWBUCK.

the ground while sawing. The old style of sawbuck requires a stooping position which is very monotonous and tiresome, to say the least. The foot rests on the lever A, and holds the clamp B down firmly upon the stick of wood. At C is placed a weight heavy enough to hold the clamp up while putting on another stick to be sawed.

Prairie Farmer, authority for the foregoing, gives the following illustrated description of a tamping rod for setting posts:
A three-quarter inch iron rod of the required length is recommended, with a large nut or piece of iron welded on the lower end. The other end may be chisel pointed, as shown in the illustration herewith, for the purpose of enlarging the hole around the post. If the rod is bent a little there will be less liability to injure the herds against the posts. In putting up wire fences it is advised

AN IMPROVED TAMPING ROD.

to leave most of the staples loose, driving about every fourth one down on the wire. This gives the wire more play and it is not so liable to break.

Does It Pay to Shade Bee Hives?
"Does it pay to use shade boards?" was a question asked at a recent meeting of bee keepers.

Mr. Draper said his bees did not need them.
Mr. Becker—I do not want any shade for my bees any time. Give the bees the sun the year round. I have never seen a frame melted down that a good colony of bees had access to. Give them plenty of room and ventilation.
Mr. Stone has his bees under a shed. The strongest colony he had last season was under a tree. He could not say which is best—sun or shade.
Mr. Robbins—Shade is a good thing in summer. I like artificial shade.

A Quick Way to Kill Caterpillars.

Take a suitable pole, say ten feet long, and attach to the end a coarse woollen cloth by winding it with strong twine, so that it will not slip either way. Take from one to three quarts of wood ashes, pour on hot water, and thus get a strong lye. Take an old pail, turn in the lye, adding one pint or more of soft soap, and stir well. It is then ready for use, and I will warrant this lye and soap to deal the deathblow instantly to all caterpillars by thrusting the saturated swab straight into the nests. Put the pole and swab in a secure place for future use.—Country Gentleman.

Clover with Straw.

National Stockman recommends that in rainy, catching weather clover be placed in the stack or mow with alternate layers of straw. It affirms that the clover comes out green in color as when put in. Even the blossoms do not change color. The straw is also imbued with the flavor of the clover and is eagerly eaten by the cattle. Dairymen do not generally realize the value of maintaining the bright green color of the hay. This will be particularly shown in promoting the yellow color of the butter made in winter.

Green Food for Fowls.

Fowls want green food, especially in the season for it, and where they have their liberty they consume large quantities of grass; also vegetables if they can get at them. When confined in little runs they should have a small supply with their other food daily. Clover is always welcome. There is nothing they like better than cabbages, both heads and leaves. By sowing a bed in the garden with cabbage seed, early and thick, a plentiful supply of leaves can be furnished them before the transplanted plants head.

Here and There.

The final round up of cattle in the Indian territory is about complete, and the number of cattle now in the territory is estimated at only about 500,000 head.

The export trade in "chopped apples"—a dried product from inferior fruit left over from the best quality of evaporated fruit—according to a recent estimate, had increased from small orders in 1880 to 11,000,000 pounds in 1888, and 20,000,000 pounds could have been sold in 1889. These chopped apples are largely used in France for conversion into cider.

A noticeable feature of recent bee keepers' conventions is the increased number of ladies who take part in the exercises.

Mixed grasses are better for stock than a single variety. No matter how valuable any particular grass crop may be, or how large the yield, the stock will thrive better when fed on a variety.

The following is also said to be a good application to prevent metals rusting: Melt one ounce of rosin in a gill of linseed oil, and while hot mix it with two quarts of kerosene oil. This can be kept ready to apply at any time with a brush or rag to any tools or implements required to lay by for a time, preventing any rust and saving much vexation when the tools are to be used again.

What Does It Mean?

"100 Doses One Dollar" means simply that Hood's Sarsaparilla is the most economical medicine to buy, because it gives more for the money than any other preparation. Each bottle contains 100 doses and will average to last a month, while other preparations taken according to direction, are gone in a week. Therefore, be sure to get Hood's Sarsaparilla, the best blood purifier.

WILLIAMS' AUSTRALIAN HERB PILLS.

If you are yellow, bilious, constipated with headache, bad breath, drowsy, no appetite, look out, your liver is out of order. One box of these pills will drive all the troubles away and make a new being of you. Price 25 cents.

TEASDEL'S
Big Reduction!
To Close Out Our Stock of
Men's Straw Hats,
Summer Coats, Dusters,
All Light-weight Suits,
— ALSO —
Summer Shoes and Slippers,
— And the Stock of —
Ladies' Dusters, Lawns,
Percales, Fancy and Plain.
STRAW HATS,
And all Summer Goods before our Semi-annual Stock Taking.
GROCERIES.
For Picnic Excursions, a Full Supply of
Can Meats, Can Fruits,
Can Fish, Pickles,
Preserves, Jams, Jellies,
— A Full Supply at —
TEASDEL'S.

Duncan M. McAllister & Co.,
72 Main St., Salt Lake City
Wholesale and Retail.
STATIONERY,
BOOKS,
Toys and Novelties.
Standard Books, Novels, Histories
Travels, Health Publications, Church
Works, School Books, Magazines, Periodical
Hammond Type Writer, Supplies
for Offices, Architects and
Type Writers.
Book of Mormon, 75c. L. D. S
Hymn Books, 35c. Albums
and Views.

CHARTER OAK
The people know a thing or two
About the taste of meat.
They crowd into the restaurant
Where chops and roasts are sweet.
The restaurant keeps, purse, gets fat,
His trade grows more and more,
His cook cooks well because the range
Has on a Wire Gauze Door!
IF YOU WANT THE BEST
Buy the **CHARTER OAK,**
With the **WIRE GAUZE** Oven Doors.
Z. C. M. I. Sole Agents. Salt Lake City

WILCKEN & SALMON
Real Estate and
Commission Agents.
No. 64 EAST FIRST SOUTH STREET.
BUSINESS, RESIDENCE
— AND —
ACREAGE PROPERTY.
BUILDING ROCK,
PAVING
STONE,
ETC., ETC., ETC.

The Queen City Printing Ink Company.
A complete and fresh stock of Job and Colors, Book and News Inks always on hand. Bronze Powders, "Acme" and Bingham's "Durable" Composition, Poole's Benzine Cans, Inkoleum, Etc.
Send us your orders. We can save you money.
The Queen City Printing Ink Company.
R. O. BOYD, Western Manager,
1744 Blake Street, Denver, Colorado. Main Office and Works, Cincinnati, Ohio
To Be Given Away
— AT THE —
AMERICAN
CLOTHING & SHOE CO.,
For Ten Days, with Each Suit at \$10.00
or over, One Alarm Clock worth \$3.00.
Also Remember the Large Stock of
Boys' and Children's Clothing
Which will be sold for Thirty Days
25 per cent. below the former price.
Remember the Place, 120 S. Main St.
American Clothing & Shoe Co.

THE CULLEN HOTEL, HOME COAL COMP'Y,
S. C. EWING, Proprietor.
Opened October 3d, 1887.
THE FINEST HOTEL IN THE WEST.
Rates, \$3.00 per Day.
SPECIAL RATES TO TOURISTS.
22 E. First South St.

Z. * C. * M. * I.
Full and Complete Lines of
Dry Goods, Clothing,
Boots and Shoes,
CARPETS, CURTAINS, WALL PAPER,
Groceries and Hardware,
AT WHOLESALE AND RETAIL.
Bargains in Summer Goods.
T. G. WEBBER, Superintendent.

Complying with the terms of our contract, the
Salt Lake Rapid Transit Company
has completed its track to FOREST DALE, and its line is now built right to the heart of our Addition. Arrangements have been made to have the electrical equipment completed as soon as the Sprague company can furnish the necessary apparatus, and before long cars, as
ELEGANTLY * EQUIPPED *
as any in the west, will enable the people purchasing lots from us to ride to any part of Salt Lake City for 7c. People say real estate is quiet, but we are selling lots nearly every day. Our property speaks for itself. The class we sell to are bona fide residents, who will make desirable neighbors. We do not ask any others to buy. The wise will, if they desire a home in the near future, purchase now and avoid paying the advance sure to follow the running of the electric cars. We guarantee
Rapid Transit, First-class Cars, Perfect Title,
Abundant Water of First-class Quality, and
EASY * * TERMS.
GEORGE M. CANNON and L. G. HARDY,
66 Main Street, Salt Lake City.
GEORGE M. CANNON'S
Real Estate, Loan and Collection Agency.
We have Money to Loan on Good Security. Houses to Rent. Real Estate for Sale. Homes at Prices to Suit all. **LOWEST PRICES and EASIEST TERMS.** Parties desiring to Loan Money will do well to consult us. We can loan on first-class security; are well posted on values, and will see to it that security offered on loans made by us has good title and free from other incumbrances.
No. 66 MAIN STREET, SALT LAKE CITY.