

Agriculture.

WOODEN DRAINS.

Strange as it may seem, after all our experimenting with wood and the tile draining material, we are likely to come back again to wooden drains of some sort under peculiar circumstances. They are pronounced to be on good authority superior to, as they are far cheaper than, tile-drains, where the wood is subjected to the vapour of carbolic acid. But even without this preparation, wooden water pipes, made in the best manner, will last two or three generations under ground. But as it regards the so-called Robbins process, it is not applied to logs, but board, so that the logs of any perishable woods sawed into boards, and the boards subjected to carbolic acid, formed into square conductors and used as drains upon farms, will last it is claimed, "forever," at a cost of not over a fourth or a fifth of that for tile, a heavy article and expensive to farmers living at a distance from a manufactory. Should this process turn out to be all that is claimed for it, the farmers of the country will find in it a means of rejuvenating their lands by draining, which, while it will cost but little, will nearly double their productive capacity. — Germantown Telegraph.

FATTING ANIMALS FOR WINTER.—Nature sets the example. Look at the woodchucks, how fat they are. See how nice and sleek squirrels and other wild animals look. Every bird and creature of any kind which nature has not entrusted to the keeping of man is fat. The winter has to be lived through, and more or less the fat is what preserves them. The first are said to be in a dormant state, the fat imperceptibly keeping away hunger and cold. The next mentioned are taught by nature to lay in a stock of provisions, and some are instinctively caused to move into warmer climates, but in all cases nature does not permit any under her protection to dwindle away in the autumn; they come into the full severity of winter well prepared. Yet man, with this example before his eyes, will scarcely allow the poor creatures in his care to have any of the winter's store till the obduracy of autumn has reduced the frame and brought down the fat which summer would have accumulated with good management. The worst of managers will charge every mishap to anything or anybody but themselves, and when they have starved a number of unfortunate young animals to an unhealthy condition, they will begin to physic and use drugs in other ways—to do what, should you think, uninitiated reader? Assist nature! Of all expressions, this is the most absurd. Assist nature! When they have been going contrary to all nature's rules! — Bz.

BONE DUST FOR POULTRY.—Last winter I procured two barrels of bone dust, intending to use it for Irish potatoes and other garden crops. My wife appropriated some of it for her roses in the flower garden by simply strewing it on the ground around the bushes. The fowls, having free access to the garden, were discovered eating the meal very eagerly. Thinking it might be of service to them we gave them some for several weeks, and I assure you it was but a short time before the eggs began to come in such numbers as we had never known before. If a nest was broken up to prevent a hen from setting it was but a few days before she was laying again, and thus it continues to the present time. One hen has taken possession of a barrel that has some bone meal in it and is laying in the meal. Whether she will lay the barrel full or not time will show. My wife thinks that care and bone meal are great institutions for her poultry yard, and very extraordinary in their effect.

GAME HENS.—There are few fowls more prolific than Game; and, where there is a good wide range of any kind, no fowls will prove more profitable, the Black-breasted Red variety being the best. They eat little in proportion to other larger fowls, and are very good layers, but they cannot be kept in close confinement, on account of their fighting propensities.—Canadian Poultry Chronicle.

Soft-shell eggs are evidence that hens need more pounded oyster or clam shells, gravel, old whitewash, and similar chalky compounds.

Scientific.

HOW TO INVENT.

The readiest way to invent is to keep thinking. In order to supply the mind with a constant succession of subjects, the inventor should cultivate habits of observation. Keep your eyes and ears open. Examine things about you, and seek to know how they are made, and how improved.

The young inventor should acquire a knowledge of the general laws and principles of natural philosophy, chemistry, and all of the sciences.

Leisure hours might be occupied with drawing and with books suggestive of improvements. To avoid waste of time in reproducing old devices, the inventor should be well posted in regard to inventions that have already been patented. For this purpose, an attentive study of *The Scientific American* will be almost indispensable.

The Boston Journal makes the following useful remarks: "Of course, in order to succeed, a new invention must be superior to any thing that has preceded it, and must be sold at a price that will enable it to be brought into general use.

People cannot afford to throw away old implements unless the new ones are enough better to make up for the loss: Let inventors produce a good article, at a moderate price, and they will be sure of success." — U. S. Patent Laws.

SOAP-BUBBLES.—Few things amuse children more than blowing bubbles. Dissolve a quarter of an ounce of Castile or oil soap, cut up in small pieces, in three quarters of a pint of water, and boil it for two or three minutes; then add five ounces of glycerine. When cold, this fluid will produce the best and most lasting bubbles that can be blown.

TO WASH BRASS FIGURES OVER WITH SILVER.—Take one ounce of aquafortis, and dissolve in it over a moderate fire one drachm of good silver cut small, or granulated; this silver being wholly dissolved, take the vessel off the fire, and throw into it as much white tartar as is required to absorb all the liquor. The residue is a paste, with which you may rub over any work made of copper, and which will give it the color of silver.

A CURIOUS MEDICAL EXPERIMENT.—In Russia, not long since, some murderers were placed without knowing it, in four beds where four persons had died of cholera. They did not take the disease. They were then told that they were to sleep in beds where some persons had died of malignant cholera! but the beds were, in fact, new, and had not been used at all. Nevertheless, three of them died of the disease within four hours.

UNDERDRAINING.—Surface water that flows off the land instead of passing through the soil, carries with it whatever fertilizing matter it may contain, and abstracts some from the earth. If it pass down through the soil to drain, this waste is arrested.

Some employers think themselves entitled to the ownership of all inventions made by their workmen. But this is not so. Employers have no claim to the inventions of their workmen unless it can be shown that the latter was specially employed to bring out such inventions.

Never make money at the expense of your reputation.

Say but little—think much and do more.

Avoid borrowing and lending.

A cubic foot of air weighs 523 grains—a little more than an ounce. A cubic foot of water weighs 1000 ounces.

Common hydraulic cement mixed with oil forms a good paint for roofs and out-buildings. It is water-proof and incombustible.

The light of lightning and its reflections, will penetrate from 150 to 200 miles.

It is immeasurably difficult to refute false doctrines, because they rest on convictions that error is truth.—Liebig.

The last cosmetic English women have begun to use is from an old receipt revived from Queen Anne's time namely: cucumbers steeped in milk.

MESSSENGER ALMANACK.

OCTOBER, 1871.

Last Quarter, Oct. 6th, 1h. 17m. afternoon. New Moon, " 14th, 2h. 5m. morning. First Quarter, " 20th, 7h. 40m. afternoon. Full Moon, " 28th, 4h. 0m. afternoon.

Table with columns for Day, SUN, MOON, High Tide, and Low Tide. Rows list dates from 1st to 31st of October.

THE TIDES.—The column of the Moon's Southern gives the time of high water at Parrsboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro.

High water at Picton and Cape Tormentine, 2 hours and 11 minutes later than at Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at St. John's, Newfoundland, 20 minutes earlier, than at Halifax. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 minutes later.

FOR THE LENGTH OF THE DAY.—Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT.—Subtract the time of the sun's setting from 12 hours, and to the remainder add the time of rising next morning.

A. V. P. B.

ARCHIBALD'S VEGETABLE PAIN BALSAM

is an article worthy of patronage and should be found in every house. It is equal if not superior to any other Pain Killer now in use. Also, Archibald's Cough Mixture for Coughs, Colds, and all Lung Diseases.

The Proprietor has removed to Truro, Colchester Co., N. S., is now extending his business, and will be prepared to furnish his numerous patrons with the above, as well as many other valuable remedies compounded by him.

Sold by all the principal Dealers and Druggists in the Provinces. 1 yr. Oct. 21.

Emerson's Singing School!

A NEW BOOK, Designed especially for Singing Classes, BY L. O. EMERSON, of whose books the sale of

A MILLION COPIES

or more, proves conclusively that he understands the wants of the American Musical Public.

The book contains, in its three divisions, an Elementary Course, a good variety of secular music, and a collection of Church Tunes and Anthems.

Price \$7.50 per Doz. Sample Copies sent post-paid for 75 Cts.

O. DITSON & CO., Boston. C. H. DITSON & CO., New York. Sept. 26

EDWARD NALDER,

(Late of Birmingham, England.) ELECTRO-PLATER, GILDER, &c.

All kinds of work Plated & Gilt. OFFICE—BARRINGTON STREET,

One door south of "Right Market," HALIFAX, N. S.

Sep. 6. 3m.

American Organs.

A New and Popular Series of Instruments.

The Manufacturers, desirous of meeting the general desire for organs with all substantial excellences and at a moderate price, have designed and made a series of styles that are in all respects superior to any instruments at similar prices; namely from \$10 to \$200.

Not only are the cases of new and tasteful designs, but every part of the mechanism has been subjected to the most careful scrutiny in order to combine all the elements that can be looked for.

Numbers One, Two and Three are designed for private use. Number Three has a new and exquisite Solo stop, named

THE KALOPHON.

The tone possesses a most fascinating quality, closely resembling the real VOX HUMANA, being delicate and sympathetic, and free from the disagreeable tremor that haunts most of the mis-called VOX HUMANA stops.

Numbers Four and Five will found especially effective in churches of moderate size.

Number Four has an Octave of Sub-bass, and Number Five both Sub-bass and an Octave Coupler, giving a great increase of power, but with no sacrifice of sweetness.

LARGER AND MORE COSTLY STYLES

are also offered, of which the catalogue of the manufacturers will give information. Send for circular! Address

The Smith American Organ Co. Boston, Mass.

C. H. GATES. AGENT FOR THE PROVINCE. For sale in HALIFAX by S. SELDEN. May 17.

WRIGHT'S Patent Sectional Spring Bed!

THE Subscribers having been appointed Sole Agents in the Province for the sale of this article, recommend it as being the easiest and most comfortable to rest upon, and together with its durability, and the facility with which it can be taken apart and cleaned, they feel certain that it will be found to be a most convenient article. May 20. GORDON & KEITH.

EAGAR'S Peruvian Bitters!

COMPOUND Of Peruvian Bark, Sarsaparilla, Dandelion, Wild Cherry, and other valuable remedies. AN EXCELLENT

TONIC, APPETIZER, & STIMULANT.

Cures LIVER COMPLAINT, DYSPEPSIA, ACIDITY of the STOMACH, DEBILITY and PAIN in the BACK, RESTORES the VITAL ENERGIES, when exhausted, braces up both the Nervous and Muscular System, PURIFIES the BLOOD, and Restores the Appetite.

PERUVIAN BITTERS

are not an Alcoholic preparation, but simply a scientific combination of valuable Roots and Barks, which purifies the Blood and restores the waste, thereby bracing up both the Nervous and Muscular Systems, and giving that permanent HEALTH, STRENGTH and VIGOR, both of mind and body which nature intended man should possess.

This BITTERS is not sold as a specific for every disease, but in cases of GENERAL DEBILITY and its effects, such as Dyspepsia, Loss of Appetite, Weakness of the small of the Back, Weak Memory, Indisposition for Exertion, Sense of Fullness after Eating, &c., caused by anxiety over exertion, mental or bodily, late hours, and excesses of every kind, it has no equal.

Although these BITTERS contain no Alcohol, they will most effectually wean the taste from Stimulants and enable the system to dispense with them at once.

The proprietor, although averse to the practice of puffing any medicine, feels it his duty to give publicity to the following certificates.

Hundreds could be added, but such names as Dr. How, Professor of Chemistry at King's College; Capt. Hardy, R. A.; Mr. Solomon, Lunenburg; and Dudley de Chair, Esq., Halifax, will be sufficient to establish its reputation as a reliable and valuable medicine.

CERTIFICATES:

I have found Mr. Eagar's PERUVIAN BITTERS beneficial to myself and in my family, and have heard of their being used with good effect in another case in Windsor. (Signed) HENRY HOW, D.C.L. King's College, Windsor.

MR. EAGAR.—I have used your PERUVIAN BITTERS in a personal case of Dyspepsia, and have derived the greatest benefit therefrom. (Signed) C. HARDY, Capt. R. A.

LUNENBURG, 23th June, 1869.

MR. EAGAR.—I have used your PERUVIAN BITTERS and can highly recommend them, as I have derived great benefit therefrom. (Signed) EDWARD H SOLOMON, Dy. Surveyor, Co, Lunenburg.

I have tried Mr. Eagar's PERUVIAN BITTERS, and can strongly recommend them. (Signed) DUDLEY DE CHAIR, Halifax, June 3, 1869.

FOR SALE in large bottles at 37 1/2 cts. per bottle, and in one dozen and three dozen boxes. Orders from the country will receive immediate attention. Dealers Supplied on liberal terms.

TOOTH ACHE.

EAGAR'S

ODONTINE ESSENCE

gives instantaneous relief in all cases of Tooth Ache arising from hollow teeth and exposure of the nerve.

Thousands of bottles have been sold and in no case has it failed to give satisfaction.

Be sure and obtain Eagar's Odontine Essence; take no other.

The money will be returned if it fails to give relief when used according to directions in cases of tooth, ache from exposed nerve.

25 CENTS PER BOTTLE.

If the above article cannot be obtained at the stores near where you live send the price in stamps to the subscriber's address and it will be forwarded immediately. Dealers supplied on liberal terms

M. F. Eagar, 149 Hollis St. Halifax.

NEW

WHOLESALE DRUG STORE,

149 Hollis St., Halifax.

The subscriber is prepared to execute orders for Drugs, Chemicals, Perfumery, Patent Medicines' Pains, Varnishes, Oils, Toilet Articles, and all other articles usually supplied by Drug Houses.

Being a gent for first class Surgical Instrument makers in London and Paris, their respective priced lists can be seen at his establishment.

His knowledge of the London, Liverpool and Parisian Markets, enables him to offer goods at very low prices for cash as will be seen by a few quotations below:

Hair Oil, at from... \$0 37 per doz Perfume, " " " " " " 0 60 Black Cup Pomade, " " " " " " 1 00 Box Wood top Pomade, " " " " " " 1 00 Glycerine & Camphor Roll " " " " " " 0 90 Soaps, " " " " " " 0 25

Prices of any articles will be given with pleasure when required.

Should any article purchased at his establishment not prove to be what it is represented, it can be returned at his expense, if not otherwise made satisfactory.

M. F. EAGAR, 149 Hollis St. Halifax. Feb. 23.

CHEAP FARMS! FREE HOMES! ON THE LINE OF THE UNION PACIFIC RAILROAD.

A LAND GRANT OF 12,000,000 ACRES OF THE Best Farming and Mineral Lands in America.

3,000,000 Acres of Choice Farming and Grazing Lands on the line of the road, in the STATE OF NEBRASKA, IN THE GREAT PLATTE VALLEY.

NOW FOR SALE, for cash or long credit. These lands are in a mild and healthy climate, and 'or grain growing and stock-raising, unsurpassed by any in the United States.

Prices range from \$2 to \$10 per Acre.

Homesteads for Actual Settlers.

2,500,000 Acres of Government Land between Omaha and North Platte, open for entry as HOMESTEADS ONLY.

Persons of Foreign Birth are entitled to the BENEFIT OF THE HOMESTEAD LAW on declaring their intention to become citizens of the United States, and may avail themselves of this provision IMMEDIATELY AFTER THEIR ARRIVAL.

Send for the new edition of descriptive pamphlet, with new maps, mailed free everywhere. Address O. F. DAVIS, Land Commissioner U. P. R. R. Co. OMAHA, NEB.

New Grocery Store.

Z. A. HUBLEY & CO., NO. 168 RYGLE STREET, (Opposite J. NORTHUP'S.)

DEALER IN Country Produce, FLOUR, TEA, SUGAR, and GENERAL GROCERIES, WHOLESALE AND RETAIL.

N. B.—People from the Country sending their orders to us, will gain four per cent on their Groceries, by our profits being small. Aug. 9th. 3m.

SUBSCRIBERS TO PETER'S MUSICAL MONTHLY get all the latest and best music at one and two cents a piece.

Every number contains from \$4 to \$5 worth of new Music; and it can be had for 30 cents. The July and August numbers contain Thirty Pieces of Music, (72 pages, sheet-music size), and will be mailed for 50 cents. Address J. L. PETERS, 599 Broadway, New York. Aug. 9th. 3m.

UPRIGHT, OBLIQUE, SQUARE, &c. With all the latest improvements, manufactured by the subscribers, and especially adapted to this climate. An assortment of THE "SILVER TONGUE."

A very fine toned CABINET ORGAN, by Carhart and Needham, N. Y. The above are offered to a discriminating public at moderate prices, WM. FRASER & SONS, June 1. 70 & 72 Barrington St.

To Parents and Sabbath School Teachers. JUST PUBLISHED.

SECOND EDITION—REVISED. A SCRIPTURE CATECHISM, for the Family, the Bible Class, and the Sabbath School, BY S. SELDEN. Price 8 cents or \$6 00 per 100.

TRY NELSON'S CHEROKEE VERMIFUGE. THIS valuable Indian combination has been successfully used by physicians, and found to be safe and sure in eradicating worms in persons of all ages. Prepared by W. J. NELSON, Bridgewater, N. B. Sold everywhere. Sept. 14. 1y. c e 3 mths.

THE CHRISTIAN MESSENGER Is published every WEDNESDAY. Terms—Two DOLLARS a year, when paid in advance; if payment is delayed over three months \$2.25 when over six months \$2.50. Subscribers beyond the Dominion of Canada, must send in addition to the above, 20 cents a year for prepayment of postage.

ADVERTISING at usual rates. STEPHEN SELDEN, Proprietor. OFFICE No. 59 GRANVILLE STREET, HALIFAX, N. S.

PRINTING of Books, Pamphlets, Cards, Handbills, Blank forms, &c., &c., on reasonable terms. Magistrates Blanks always on hand.