

FARM AND GARDEN.

TREATMENT OF BULBS.—An ounce of nitrate of soda dissolved in four gallons of water is said to be a quick and good stimulant for bulbs to be applied twice a week after the pots are filled with roots and the flower spikes are fairly visible.

TO KILL EARTH WORMS.—Ten drops of carbolic acid in a pint of water, poured over the earth in flower pots, will kill earth worms.

In sowing garden seeds in spring do not sow too early. The ground must be warm or seeds will not germinate.

Forget-me-nots, pansies, and lilies of the valley require a shaded, moist place, and rich soil to do well.

In starting delicate seeds in boxes or pots it is a good plan to cover them with a layer of blotting paper fitted over the soil.

Every garden should have a corner devoted to choice herbs. Mothers all appreciate the value of those used for medicinal purposes.

The Scientific American gives the following rule for removing stumps:—"In the autumn or early winter bore a hole one or two inches in diameter, according to the girth of the stump; and about eight inches deep, put into it one or two ounces of saltpetre, fill the hole with water and plug it close.

Sheep should not be exposed to a storm for any length of time, as their fleece retains the moisture and they will take cold even in moderate weather.

Fowls that roost out in trees are less likely to be attacked with cold and roup than those that occupy poorly ventilated houses at night.

Fowls need gravel, oyster shells and some green food. When in confinement these substances should not be overlooked.

Strong, healthy, young trees, two years old, are the best to plant. The stems must be protected with long grass or split corn stalks.

THE HOT BED.—The best heat for the hot bed is fresh horse dung from a stable where some ten or more horses are kept, so that a load of it can be taken out hot and fresh before it has had time to burn by excessive heating.

THE HOUSE.

BAKED BEANS.—Small pea beans, are much better than the yellow-eyed and not to be tired of so soon. Soak the beans over night in cold water and then simmer till they are tender.

UNFERMENTED WINE FOR COMMUNION.—Weigh the grapes, pick from the stems, put in a porcelain kettle, and add very little water, and cook till stones and pulp separate; press and strain through a thick cloth, return juice to kettle, and add three pounds of sugar to every ten pounds of grapes; heat to simmering, bottle hot, and seal.

SCIENCE.

CEMENT FOR RUBBER OR LEATHER.—Dissolve one ounce of gutta percha in one half pound of chloroform. Clean the parts to be cemented; cover each part with solution, and let them dry twenty or thirty minutes; warm each part in the flame of the candle, and press firmly together till dry.

IVORY BLACKING FOR SHOES.—Four ounces ivory black, three ounces coarsest sugar, one tablespoon sweet oil, one pint of small beer, mix well together.

An admirer of fine scenery has truly said that the best time to read the book of Nature is when Autumn turns the leaves.

When the sun goes pale to bed, 'Twill rain to-morrow, it is said.

When the clouds are upon the hills, They come down by the mills.

Mackerel skip and mares' tails Make lofty ships carry low sails.

When the wind veers against the sun, Trust it not, for back it will run.

When the mist creeps up the hill, Fisher, out and try your skill.

Wild geese gauging out to sea, Good weather it will be.

Chickweed expands its leaves boldly and tully when fine weather is to follow.

If the wind is north-east three days without rain, Eight days will pass before south wind again.

Clear moon, Frost soon.

TO CATCH WILD DUCKS AND GESE OR ANY BIRDS ALIVE.—Soak wheat in strong alcohol, and scatter where they are in the habit of feeding, and take them while they are drunk. Men are often caught by similar means. What geese!

THE LATEST ELECTRICAL DISCOVERY.—The Rev. Mr. Gilbert, during an address at Christ Church the other night, remarks the Otago Times, while speaking of the telephone, asked his audience if they would be astonished if he were to tell them that it was now proved to be possible to convey, by means of electricity, vibrations of light—to not only speak with your distant friend, but actually see him. The electroscope—the name of the instrument which enables us to do this—was the very latest scientific discovery, and to Dr. Guidrah, of Victoria belonged the proud distinction. The trial of this wonderful instrument took place at Melbourne on the 31st Oct. last, in the presence of some forty scientific and public men, was a great success. Sitting in a dark room, they saw projected on a large disk of white burnished metal the race course at Flemington and its myriad hosts of active beings. Each minute detail stood out with perfect fidelity to the original, and as they looked

at the wonderful picture through binocular glasses, it was difficult to imagine that they were not actually on the course itself and moving among those whose actions they could completely scan.

SIX HUNDRED AND FIFTY MILES BY TELEPHONE.—The N. Y. Scientific American gives an account of telephoning to Cleveland, Ohio, a distance of 650 miles, and says:—

On the 13th inst. we visited the Postal Telegraph Company's headquarters in this city—the large and splendid building No. 49 Broadway. Here we were received by Mr. F. W. Cushing, the able and obliging Manager of the company, who at once placed at our disposal, for the purposes of the experiment, the use of the line wire to Cleveland, with the necessary instruments for transmitting and receiving conversation.

The new wire, is composed of steel and copper, its chief peculiarity and merit being its extraordinary conductivity. So great is the facility of the new wire for carrying the electrical current, that sounds and signals may be sent through it for lengths of a hundred miles as easily as through a common wire of ten miles.

The wire is poled with forty or forty-five poles to the mile, and insulated in the ordinary manner throughout the line, except at the Hudson River, under which it passes in a cable 4.980 feet in length; and by a short cable under the river at Cleveland.

The transmitter was hung upon the wall like the ordinary instruments, and we gave the usual call, "Hullo! Hullo!" to Cleveland. We were instantly answered in clear tones by Mr. C. H. Rudd, the superintendent of the Postal Company in Cleveland. With him we then maintained a telephonic conversation for a considerable time; several other gentlemen in the party did the same, among whom was Mr. G. M. Hopkins, the inventor of the transmitting instrument. Finally, to make the test as thorough as we could, we asked Mr. Rudd to read something from the editorial page of the Cleveland Herald of that morning, which he proceeded to do, his reading being written down by us at this end of the line. He read several items. A day or two following, on the arrival here of the mail from Cleveland of March 13, we obtained a copy of the Herald and found therein, verbatim et literatim, all the items that were read to us by Mr. Rudd.

Those of our readers who have had any considerable experience in telephoning, especially in the city of New York, know that this was a satisfactory test of the Cleveland wire. If the reading of random newspaper items can be intelligently done, then anything may be sent. We have only to add that the noise from induction was about the same as on our city lines, and we were able to speak to Cleveland and hear the answers with greater ease and satisfaction than we often experience in trying to talk from our office to points in town that are only two or three miles apart.

The company is now finishing the line from Cleveland to Chicago, and in a few days we shall probably be able to chronicle the wonderful fact that telephonic communication between New York and Chicago—distance about 1,000 miles—is established.

VARIETIES.

A gentleman having a little toddler with him the other day, stopped at a confectioner's, and purchased two balls of pop-corn. He gave one ball to the child, and the confectioner placed the other in a paper sack. Then the two wended their way homeward, meeting as they proceeded two ragged urchins, whom the man stopped and made a divy of the remaining pop-corn ball. "Ain't he a good man!" was the exclamation that greeted him as he walked away. The little toddler then broke forth: "Papa, don't you know what they said that for?" "No; why?" "Cause they don't know you." The silence was only broken by the munching of the corn.

Jones asked his wife: "Why is a husband like dough?" He expected she would give it up, and was going to tell her it was because a woman needs him but she said it was because he was hard to get off her hands.

A western debating society is nervy itself up to wrestle with the question: "When a woman and a mouse meet, which is the most frightened?"

The following advertisement actually appeared in a Western paper, "Lost! One white calf. His two behind legs most black. He was a she calf. Who brings him back pays five tollars. Fritz."

Kendall's Spain Cure is the best liniment on human flesh in the world. Try it and be convinced. Read the advertisement.

Rev. Father Wilds' EXPERIENCE.

The Rev. Z. P. Wilds, well-known city missionary in New York, and brother of the late eminent Judge Wilds, of the Massachusetts Supreme Court, writes as follows:

"78 E. 54th St., New York, May 16, 1882. Messrs. J. C. Ayer & Co., Gentlemen: Last winter I was troubled with a most uncomfortable itching humor affecting more especially my limbs, which itched so intolerably at night, and burned so intensely, that I could scarcely bear any clothing over them. I was also a sufferer from a severe catarrh and catarrhal cough; my appetite was poor, and my system a good deal run down. Knowing the value of AYER'S SARSAPARILLA, by observation of many other cases, and from personal use in former years, I began taking it for the above-named disorders. My appetite improved almost from the first dose. After a short time the fever and itching were allayed, and all signs of irritation of the skin disappeared. My catarrh and cough were also cured by the same means, and my general health greatly improved, until it is now excellent. I feel a hundred per cent stronger, and I attribute these results to the use of the SARSAPARILLA, which I recommend with all confidence as the best blood medicine ever devised. I took it in small doses three times a day, and used, in all, less than two bottles. I place these facts at your service, hoping their publication may be of some benefit to others suffering from similar troubles. Yours respectfully, Z. P. WILDS."

The above instance is but one of the many constantly coming to our notice, which prove the perfect adaptability of AYER'S SARSAPARILLA to the cure of all diseases arising from impure or impoverished blood, and a weakened vitality.

Ayer's Sarsaparilla cleanses, enriches, and strengthens the blood, stimulates the action of the stomach and bowels, and thereby enables the system to resist and overcome the attacks of all Scrofulous Diseases, Eruptions of the Skin, Rheumatism, Catarrh, General Debility, and all disorders resulting from poor or corrupted blood and a low state of the system.

Prepared by Dr. J. C. Ayer & Co., Lowell, Mass. Sold by all Druggists; price \$1, six bottles for \$5.

AYER'S CATHARTIC PILLS. Best Purgative Medicine cure Constipation, Indigestion, Headache, and all Bilious Disorders. Sold everywhere. Always reliable. Feb. 7. N. Y.

SAVE THE NATION! For it is sadly too true that thousands of children are STARVED TO DEATH every year by improper or insufficient food. Remember,

RIDGE'S FOOD FOR INFANTS AND INVALIDS. Is all and a great deal more than we have claimed for it. It is simply a HIGHLY NUTRITIOUS and easily assimilated FOOD, grateful to the most delicate and irritable stomach, and especially adapted for the INFANT and GROWING CHILD. Invalids, Nursing Mothers, and those suffering from INDIGESTION will find on trial that RIDGE'S FOOD FOR INFANTS AND INVALIDS, is all they can desire. It is carefully put up in four sizes. Constant users will find our No. 4 size (always the most economical size to buy) now much larger than formerly, thus materially lessening the expense. WOODRICH, Dispensing and Family Chemist, Upper Water St., Depot for Ridge's Food, Dick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs. April 17

GATES' ORGAN AND Piano Company, FACTORY OFFICE, TRURO. SALES ROOM, 120 Granville Street Halifax, N. S. CAPITAL STOCK, \$60,000.

For Sale, Hire, Tuned, Repaired, Exchanged; New for Old. Special Discount to Clergymen, Teachers, Churches and Societies. Agents for Henry F. Miller and other first-class PIANOS.

SHEET MUSIC & MUSIC BOOKS. Orders from the Country solicited. Anything not in stock will be ordered.

The Wonder of the Age! THE ORGANINA CABINET AND ORGUINETTES, FIDDLES, FIFES, FLUTES, ACCORDEONS, CONCERTINAS, &c. GATES BROS. Agents wanted. July 13.

Just Published! Walker's Pronouncing Dictionary of the English Language. CHEAP EDITION for sale by A. & W. MACKINLAY Sept. 21.

A Sure Cure for Asthma. KIDDER'S PASTILLES. Price 50 cts. by mail. CHURCH & CO. CHARLOTTE, MASS. Feb. 25.

Paper Hangings AT W.M. GOSSIP'S, UNITED SERVICE Book & Stationery Warehouse, NO. 103 GRANVILLE ST., HALIFAX, N. S.

My importations of ROOM PAPER. This season are very attractive. They are in time to escape the additional protective duty imposed by the Dominion Government, and will be sold at correspondingly low rates. SOLD WHOLESALE by the bale of four or five hundred rolls, about twenty patterns in a bale, from 6 cts. a roll and upward. Send to William Gossip, No. 103 Granville Street, Also just received, a large assortment of Artists' Materials, Oil and Water Colours, &c. Drawing Paper, Canvases, Brushes, &c., &c. March 22.

KNABE PIANOFORTES. UNEQUALLED IN Tone, Touch, Workmanship and Durability. WILLIAM KNABE & CO. Nos. 204 and 206 West Baltimore Street, Baltimore. No. 112 Fifth Avenue, New York. Nov. 2.

WHY YOU SHOULD INSURE IN THE UNION MUTUAL LIFE INSURANCE CO. OF PORTLAND, MAINE.

IT IS AN OLD COMPANY, having been established over thirty years. IT HAS PASSED THROUGH EVERY GREAT PANIC since its organization, paying every honest loss without dispute or delay. IT IS A POPULAR COMPANY, having gained an established character for liberality by many years of fair dealing with its policy holders. IT HAS THE ENDORSEMENT of the highest insurance authorities and the most prominent business and professional men all over the country, and for all these reasons is entitled to your consideration and respect. IT IS A PURELY MUTUAL COMPANY, having no stockholders to take lion's share of the profit. Mutual companies never fail. IT HAS OVER THIRTEEN THOUSAND POLICIES in force, and is therefore sure of a fair average mortality, and cannot be seriously affected by epidemic. INCONTINGENT POLICIES! All policies issued after Nov. 16, 1881, are incontestible three years from the date of the policies for any cause except fraud or misstatement of age. ITS DEFINITE CONTRACT POLICY provides for every contingency, which can occur during its continuance, and is so simple and clear that even a child can understand it. ITS MAINE LAW EXTENSION is the most just and perfect plan for protecting the interests of the policy-holder ever devised. ACCELERATED ENDOWMENTS! Whenever the reserve upon the policy and the dividend additions thereto, amount to the sum insured, the policy becomes payable at once as a matured endowment. Prompt Payment of Death Losses. OUR ESTABLISHED RULE is to pay our claims promptly upon their approval by the loss committee, without waiting the customary ninety days—and without rebate of interest! JOHN E. DEWITT, President. DANIEL SHARP, Vice President. HENRY D. SMITH, Secretary. NICHOLAS DEGROOT, Assistant Sec. THOS. A. FOSTER, Medical Director.

HALIFAX AGENCY, F. B. K. MARTER, Manager, for Nova Scotia and P. E. Island. W. R. ANDERSON, Special Agent. March 1.

1879—Provincial Exhibition—1879 Fraser & Sons, 82 & 84 Barrington Street, Halifax, N. S. EXHIBITED SQUARE AND UPRIGHT PIANOS, —And were Awarded— DIPLOMA AND HIGHEST PRIZE.

These Pianos were not got up for exhibition, but were our ordinary manufacture. We invite inspection of our instruments; all first class and warranted to give satisfaction. Piano-Fortes, Cabinet and Church Organs Tuned and repaired. Nov. 5.

72 A WEEK. \$12 a day at home easily made. Costly outfit free. Address TRUE & Co., Augusta, Maine Sept. 29, 1880.

CHRISTIAN MESSENGER Printing Office, 69 & 71 GRANVILLE ST., HALIFAX, N. S. All kinds of JOB PRINTING Executed with neatness and despatch BOOKS, PAMPHLETS, CIRCULARS, BILL-HEADS, POSTERS Business Cards Of all kinds. WEDDING CARDS, LADIES VISITING CARDS, TICKETS & LABELS At reasonable prices.

PATENTS obtained for Inventors, in the United States, Canada, and Europe, at reduced rates. With our principal Office located in Washington, directly opposite the United States Patent Office, we are able to attend to all Patent Business with greater promptness and despatch and less cost, than other patent attorneys, who are at a distance from Washington, and who have, therefore, to employ "associate attorneys." We make preliminary examinations and furnish opinions as to patentability, free of charge, and all who are interested in new inventions and Patents are invited to send for a copy of our "Guide for obtaining Patents," which is sent free to any address, and contains complete instructions how to obtain Patents, and other valuable matter. We refer to the German-American National Bank, Washington, D. C.; the Royal Swedish, Norwegian, and Danish Legations, at Washington; Hon. Jos. Casey, late Chief Justice, U. S. Court of Claims, to the Officials of the U. S. Patent Office, and to Senators and Members of Congress from every State. Address: LOUIS BAGGER & CO. Solicitors of Patents and Attorneys-at-Law, LeDroit Building, Washington D. C. May

DALHOUSIE COLLEGE AND UNIVERSITY, HALIFAX, N. S. MUNRO Exhibitions and Bursaries. Through the liberality of GEORGE MUNRO, Esq., of New York, the following Exhibitions and Bursaries will be offered for competition at the commencement of the Winter Sessions of this College, 1883, 1884 and 1885.

FIVE JUNIOR EXHIBITIONS of the annual value of \$200, tenable for two years, and TEN JUNIOR BURSARIES of the annual value of \$150, tenable for two years. FIVE SENIOR EXHIBITIONS of the annual value of \$300, tenable for two years, and TEN SENIOR BURSARIES of the annual value of \$150, tenable for two years. FIVE SENIOR EXHIBITIONS of the annual value of \$200, tenable for two years, and TEN SENIOR BURSARIES of the annual value of \$150, tenable for two years. The Exhibitions are open to all candidates; the Bursaries are open to candidates from the Maritime Provinces. The Junior Exhibitions and Bursaries are open to candidates for Matriculation in Arts; the Senior Exhibitions and Bursaries to undergraduates of any University who have completed two, and only two, years of their Arts course, and who intend to enter the third year of the Arts course in this University. Full information may be obtained on application to the Principal, Dalhousie College, Halifax, N. S. Dec. 13. 3 m.

TO DR. BENNET AND LEWIS, 119 HOLLIS ST., HALIFAX. DEAR SIRS:—"I desire to express my feelings of profound gratitude to you who have helped me so much by the use and application of your wonderful medicine known as your Absorptive Pads and Plasters. I was sick about two years, and spent a large sum of money with Physicians but received very little benefit until I tried your Absorptive treatment. When I commenced using it this summer I could scarcely walk across the floor, and now I can walk a mile at a time, and attend to household duties much better than I could before and feel only too glad to recommend this truly great treatment to any person or persons who may be afflicted as I was. You are at liberty to make any disposition of this note you may deem proper. MRS. R. HIBBARD. Hebron, Yarmouth.

J. B. KINNEY, ARCHITECT. Designs, Plans and Specifications prepared for all classes of Buildings. Also: Rural Cemeteries surveyed and planned. Yarmouth, N. S. Oct. 12.