

SCIENCE.

A MACHINE FOR PRODUCING RAIN.—Among the last inventions reported from Australia is a machine for producing rain storms. It is intended to force a rain supply from the clouds during a period of drought. The apparatus is in the form of a balloon with a charge of dynamite attached underneath it. The balloon is to be sent into the clouds, and when there the dynamite is to be fired by a wire connecting it with the earth. A trial of this novel contrivance is to be given upon the dry districts of New South Wales and the result is looked forward to with interest by some of the residents of that colony.

Some remarkable specimens of topaz have recently been found in New South Wales. Among them is part of a large bluish-green crystal weighing several pounds, besides others two or three inches in length and weighing from 11 to 18 ounces avoirdupois.

FOR MENDING LAMP TOPS.—Use a cement prepared by boiling 3 parts of resin and one of caustic soda in 5 of water. This composition forms a soap, which when mixed with half its weight of plaster of Paris sets firmly in about three-quarters of an hour. It is said to be of great adhesive power, not permeable by kerosene, a low conductor of heat, and but superficially attacked by hot water.

FARM AND GARDEN.

ENSILAGE IN BRITAIN.—Silos, says the North British Agriculturist, are now to be found in almost every part of the British Islands. They are not only more numerous than in any former year, but generally larger in size, most of the old experiments having considerably extended the operations. The results of the present year will be awaited with interest, and will go a long way in determining the extent to which farmers may expect benefit from the silo. Upon ensilage many people look as a medium through which farmers' dependencies upon good seasons will be lessened, their expenses curtailed, and the profits increased. Its success will effect a saving both of labor and expense, by diminishing the extent of land devoted to the cultivation of turnips; while it would empower farmers to turn to good account much of their cereal crops which are often to some extent rendered useless for mowing, mowing, or grinding purposes, by unseasonable weather during harvest. Late seasons, too, will be less hurtful to farmers. Cereal crops that are not likely to mature can be turned into silo, wet or dry, and thus preserved in a green and nutritive state for feeding purposes during the following winter and spring. It has already been abundantly proved that fodder ensiled in a saturated condition is equally as good when taken out as that filled in a dry state. The fodder chiefly used in Scotland this year is tares, meadow, and other grass, and the pressure supplied mainly by dead weights. In England some extensive tests are being made in the preservation of maize. Mr. Wood, of Morton who has taken an active part in ensilage pursuits, has tried maize two successive years with satisfactory results; the first year the maize when put into the silo was wet and cold, and the second year hot and dry.

TURNIPS AS WEED DESTROYERS.—When a turnip or rutabaga crop is well cared for while young, it quickly shades the ground so as to smother the annual weeds which are such pests in small grain and stubble. While the weather is hot and dry, the turnips have a struggle for existence against the fly, but so soon as Fall rains come their leaves expand and a thin seeding will leave few vacancies. It is comparatively little trouble to grow turnips on mellow land not too weedy; but they exhaust the soil more than other root crops, of phosphate of lime, which it is well known is a specific manure for this crop.

Keep axles or wheeling implements well oiled. A dollar expended in painting the wood work with crude petroleum or red lead and oil will save ten. When tires shrink loose, suspend the wheel in a shallow trough of boiling hot linsed oil, turn slowly and soak thoroughly and they will remain tight for years. When not in use keep all implements under cover, and oil plough-shares with clarified oil to prevent rust.

HOUSEHOLD.

DRYING PUMPKINS.—Pumpkins may be put up in the old fashioned mode of cutting them into rings, parting and drying upon poles; or they may be cut up into small pieces and dried on plates in the sun and oven. A better plan, however, is to pare, stew and strain them, just as if for pies; then spread the pulp on earthen dishes and dry quickly in the hot sun or partially heated oven. If dried slowly there is danger of souring. Store in a dry room. Kept in this manner, they retain much of the freshness and flavor of newly gathered fruit. The dried pulp should be soaked in milk a few hours before using. In making pies they are greatly improved by stirring the pumpkins in scalding milk, especially if eggs be not used; but without eggs they fall far short of the true "pumpkin pie."—German-town Telegraph.

POTATO CHIPS.—Peel and slice round, some fine potatoes. Lay in cold water for 1 hour. Dry by laying them upon a dry towel and pressing with another. Fry in salted lard, quickly to a delicate brown. Take out as soon as done; shake briskly

LIME AS A FERTILIZER.—Lime is a fertilizer that is adapted to all soils and all crops, for all plants contain a large proportion of lime in their ashes. It cannot be compared with other fertilizers because no other fertilizer can be substituted for it. Wood ashes contain about 40 per cent of lime; some—as the ash of the apple tree, which has 71 per cent of lime in it—contain more than 40 per cent. In your case it would be much better to use the cheap ashes instead of the dear lime. The beneficial effect of leached ashes is no doubt, due to the lime they contain, as the potash has been nearly all dissolved out from them. Where lime is cheap and ashes are dear, it is advisable to use the former. It is always the same as regards its fertilizing properties excepting as it gets old; after having been slacked a long time, it is less soluble and less active. It cannot be used without slaking, as it will alkali of itself when exposed to air, from which it absorbs one-third of its weight of moisture, and then it falls into a dry fine dust. It is then in the best condition for spreading and quickly dissolves. Lime is useful on all soils, even those filled with limestone; but mostly on organic, or vegetable soil, which it decomposes rapidly and this action is one of its valuable effects as a fertilizer.

APPLE TREES BY ROADSIDES.—Those farmers who planted their roadsides with apple trees fifteen or twenty years ago are now reaping a rich reward, the increased crop on such trees often making the roadside the most profitable land on the farm in proportion to the ground occupied. On much travelled highways the droppings of horses and cattle are washed into low places on the roadside, and there apple trees are almost uniformly very productive.

Keep no more hogs than you can properly manage. Shell and soak hard corn in water twenty four hours before feeding; some hogs have defective teeth.

When soaking salt fish before cooking add a little vinegar to the water; it improves the fish.

A correspondent of the Spectator is responsible for the statement that the following epitaph can be found in a churchyard at Portland, Oregon:—"Beneath this stone our baby lies, It neither cries nor hollers, It lived but one-and-twenty days, And cost us forty dollars."

A lady in Toronto got to laughing over some amusing incident that she couldn't stop. Finally, a doctor was called in, and he couldn't quiet her. As a last resort some one had to tell her that her back hair was coming down.—Lowell Citizen.

It is Byrant who says in his beautiful poem on "Autumn,"—

The south-wind searches for the flowers whose fragrance late he bore, And sighs to find them in the wood and by the stream no more.

"The dentist, love, makes teeth of bone, For those whose fate has left without; And makes provisions for his own By pulling other people's out!"

"What do you do when people come in and bore?" a warm personal friend asked of a merchant.

"When they stay too long the office boy, who is very bright and knows just when to interfere, tells me that a gentleman is in the counting room waiting to see me on important business."

"Ha! Ha! That's a capital way to get rid of bores who don't know— Just then the boy opened the door and sang out: 'Gent in the counting room waiting to see you on important business.'"

The word was hops, but not being plainly written, the compositor read it boys and set his types accordingly. As a bit of news it lost nothing by the mistake. This is the way it read in print: "The crop of boys is plentiful and of good quality."

Lemon juice has this property, that what is written in it can be read in water quite as well as by fire, and when the paper is dried the writing disappears again till it is steeped afresh, or again held to the fire. But anything written with orange juice is at once washed out by water and cannot be read at all in that way; if held to the fire, though the characters are thus made to appear, they will not disappear; so that a letter of this sort once read can never be delivered to any one as if it had never been read. The party will see at once that it has been read, and will certainly disown and refuse it if it should contain anything dangerous.

ROCKFORD WATCHES

Are unequalled in EXACTING SERVICE. Used by the Chief Mechanician of the U. S. Coast Survey; by the Admiralty commanding in the U. S. Naval Observatory; for Astronomical work; and by Locomotive Engineers, Conductors and Railway men. They are recognized as for all uses in which close time and durability are required. Sold in principal cities and towns by the COM-PANYS exclusive Agents (Goldsmiths, Jewellers,) who give a Full Warranty. Oct. 29. 1yr.

THE LINE SELECTED BY THE U. S. GOV'T TO CARRY THE FAST MAIL

Burlington Route. CHICAGO, PEORIA & ST. LOUIS. GOING WEST. ONLY LINE RUNNING TWO THROUGH TRAINS DAILY FROM CHICAGO, PEORIA & ST. LOUIS, through the Heart of the Continent by way of Pacific Junction or Omaha to DENVER, or via Kansas City and Atchison to Denver, connecting in Union Depots at Kansas City, Atchison, Omaha and Denver with through trains for SAN FRANCISCO, and all points in the Far West. Shortest Line to KANSAS CITY, and all points in the South West. TOURISTS AND HEALTH-SEEKERS should not forget the fact that Round Trip tickets at reduced rates can be purchased via this Great Through Line to all the Health and Pleasure Resorts of the West and South-West, including the Mountains of COLORADO, the Valley of the Yosemite, the

CITY OF MEXICO, and all points in the Mexican Republic. HOME-SEEKERS should also remember that this line leads direct to the heart of the Government and Railroad Lands in Nebraska, Kansas, Texas, Colorado and Washington Territory. It is known as the GREAT THROUGH CAR LINE of America, and is universally admitted to be the Finest Equipped Railroad in the World for all classes of Travel. Through Tickets via this line for sale at all Railroad Coupon Ticket Offices in the United States and Canada. J. J. POTTER, Vice-Pres. and Gen. Manager, PERCY W. LOWELL, Gen. Pass. Ag't Chicago. JNO. Q. A. BEAN, Gen. Eastern Ag't, 311 Broadway, New York, and 206 Washington St., Boston. April 16.

SMITH & CHISHOLM

18 George Street, Have on hand a full line of West of England Broadcloths, DOESKINS, DIAGONALS, HAIRLINES, SCOTCH AND ENGLISH Tweed Suitings, CORDUROYs in Seal-brown, Drab and Huntsman's Color, SPRING OVERCOATINGS, &c., Which they can make up at prices which will defy competition. A perfect fit and every satisfaction guaranteed. May 28.

1884 COLEMAN & CO. 1884

HAVE RECEIVED THEIR FALL AND WINTER STOCK OF HATS, CAPS AND FURS. SATIN AND FELT HATS THE LATEST STYLES FROM Lincoln, Bennett & Co., Townend & Co. and Christy, (of London). —ALSO— A Large and Personally Selected Stock of

FURS

SEAL & ASTRACHAN JACKETS & DOLMANS. Cashmere Circulars and Dolmans Lined with Squirrel and other kinds of Fur. —ALSO— Fur Collars and Capes, Boa's Trimmings, Muffs, etc. A very cheap lot of SHOULDER CAPES from \$3 to \$4.

Buffalo and other Robes, Trunks, Valises, etc., 143 GRANVILLE STREET, HALIFAX, N. S.

Furs Repaired and Altered. Oct. 22.

McSHANE BELL FOUNDRY Manufacture those celebrated Church and Bells for Churches, Fire Alarms, Towns, Clocks, etc. Price List and circular sent free. Address HENRY McSHANE & CO., Baltimore, Md., U.S.A. June 11. 1y.

IT IS TRUE!

KIND WORDS. WHAT OTHERS THINK OF BUDS AND BLOSSOMS.—The following is from The Christian at Work, a first-class religious weekly, published in New York: "In the City of Halifax, Nova Scotia, is published a monthly magazine called Buds and Blossoms and edited by J. F. Avery. Each number contains forty pages, plentifully and handsomely illustrated, and at 75 cents a year is certainly one of the cheapest publications extant. But better still, it is one of the best. Its pages are full of the gospel spirit, excellent temperance sketches, missionary intelligence, short stories, household hints and suggestions, all entertaining clean and wholesome literature, suitable for the home and family circle, and calculated to promote purity and knowledge among its readers. We do not know what the circulation of this excellent publication may be, but of this we are sure, it ought to be double whatever it is, for it is just the right kind of reading to be put into the hands of young folks; bright, cheery, hopeful and strong, without cant or sickly sentimentality. We hold it as an indisputable truth that when an opportunity offers to promote the circulation of such literature among the young it becomes a religious duty to do so. Send to the publisher for a specimen copy, and you'll find that we have not said one-half the good things we might concerning it."

SPECIAL OFFER!!!

We will send back numbers till the end of 1884 for 50 cents, or for \$1.00 will take new names from date until end of 1885. So confident are we you will like it, we offer it for 25 cents remainder of the year. Send 6 cents for specimen and opinions of the press.

Buds & Blossoms. REV. J. F. AVERY, Editor, Mizpah Cottage, Kempt Road, Halifax, N. S. Aug. 6.

Advertisement for a medicinal product. Includes text: "CURES RHEUMATISM, GOUT, NEURALGIA, HEADACHE, EARACHE, TOOTHACHE, CRAMPS, BRUISES, SPRAINS, COLIC, COLDS, QUINCY, ERYSIPELAS, COLIC, GROUP OR RATTLES, HOARSENESS, BRUISES, BRONCHITIS, NUMBNESS OF THE LIMBS, REMOVING DANDRUFF AND PRODUCING THE GROWTH OF THE HAIR, AND AS A HAIR DRESSING IS UNEQUALLED." Also "ALSO CURES Scatica, Neuralgia, Headache, Earache, Toothache, Cramps, Bruises, Sprains, Colic, Colds, Quinzy, Erysipelas, Colic, Group or Rattles, Hoarseness, Bruises, Bronchitis, Numbness of the Limbs, removing Dandruff and producing the growth of the Hair, and as a Hair Dressing is unequalled." Price 25c per bottle. Wholesale agents—Forsyth, Sutcliffe & Co., and Brown & Webb, Halifax. May 21.

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 in 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, Pick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs. April 17.

\$500.00 REWARD

offered for a better article, or the Proprietors of any remedy showing more Testimonials of genuine cures of the above diseases in the same length of time. There is nothing like it when taken internally for Cramps, Colic, Croup, Colds, Coughs, Pleurisy, Hoarseness, and Sore Throat. It is perfectly harmless, and can be given according to directions without any injury whatever. Minard's Liniment is for sale by all Druggists and Dealers. Price 25 cents. Wholesale agents—Forsyth, Sutcliffe & Co., and Brown & Webb, Halifax. May 21.

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 in 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, Pick-me-up Bitters, &c., with a well-assorted stock of Pure Drugs. April 17.

TRURO AND KENTVILLE Marble, Freestone AND GRANITE WORKS,

A. J. WALKER, Prince Street, Truro. A. J. WALKER & Co., Church Street, Kentville. Jan. 9. to Dec. 31.

Nova Scotia Book Bindery, C. & T. PHILLIPS,

Cor. of Granville & Sackville Streets. BOOK BINDERS, PAPERS RULERS, BLANK BOOKS, Manufacturers, Perfumers, Steam Machine PAPER BAG Manufacturers. Cheapest in the Market. Jan. 31.

CHRISTIAN MESSENGER Printing Office

69 & 71 GRANVILLE ST., HALIFAX, N. S.

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.

"CUSTOM TAILORING." H. G. Laurillard,

119 HOLLIS STREET, HALIFAX, N. S. Agency for New York Fashion For Superintendents and Teachers. FOR MINISTERS. For Scholars.

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.

50 Lovely New Style All Chromo Cards,

with name and a prize, for 10c. 12 packs, 12 names, for \$1. A sample pack and agent's outfit with illustrated catalogue of Tricks, and Novelties, for 2c stamp and this slip. A. W. KINNEY, Yarmouth, N. S. Oct. 8.

UNFERMENTED WINE,

Prepared for Sacramental and Dietetic use By F. WRIGHT, Manufacturing Chemist Kensington High Street, London, W. "This WINE is guaranteed to be the juice of the finest grapes of the Cote d'Or, Andalusia, and the Medoc. It is perfectly free from Alcohol, and is guaranteed to be Pure Grape Juice. It has stood the test of 22 years' continuous sale in every climate, and is now used in upwards of 1500 Churches of all denominations. The mode of manufacture is a slight modification of a well-known ancient practice, and effectually preserves the grateful flavor and the rich nutritious qualities unimpaired. It is therefore admirably adapted in cases of debility and fever, in which the stomach is too weak to digest other food. Children suffering from feeble ailments drink it with avidity, even when all other food has been refused. JOHN M. HODGES, Esq., M.D., F.C.S., Public Analyst for Antrim County and Belfast Borough.

"I have chemically examined the bottle of Wright's Unfermented Wine, taken by my son from the stock held by Mr. Wright's Belfast Agent, and find that it is free from alcohol, and contains the constituents of grape juice. When mixed with water it will prove an agreeable beverage." FROM REV. JOHN BURWASS, Formerly Professor at Mount Allison, Wesleyan College, Sackville, N. B. Sackville, May 23rd, 1882.

"I have just finished the analysis of the Wine sent. It is necessarily a slow process, some of the steps taking two days. This Wine contains No ALCOHOL, nor any deleterious ingredient. It can be relied on as wholesome, not having any intoxicating properties." FOR SALE AT MEDICAL HALL, AMHERST, N. S. C. A' BLACK, M.D. Dec. 5.

THE PAD STARR KIDNEY

MANUFACTURED IN TORONTO. A Permanent, sure cure for Diseases, Disorders and Affections of the Kidneys, Bladder and Urinary Secretive System, or Attendant Complaints—causing Pain in Small of Back, Sides, etc., producing Urinary Disorders, such as too frequent, scanty, difficult, painful or Copious Micturition, Inability of Retention and Sedimentary Urine, Dropsical Symptoms, etc., denoting the presence in the system of Diseases common to the Urinary Secretive Organs, known as Gravel, Catarrh of the Bladder and Passages, Bright's Disease, Diabetes, Dropsy, Piles, Nervous Debility, etc., etc. Pamphlets and Testimonials can be obtained from Druggists free. Prices—Child's Pad, \$1.50, (cures Bed-wetting) Regular Pad, \$3.00. Special Pad for Chronic Diseases, \$3.00. Sold by A. B. Cunningham, M.D., Annapolis; William A. Piggott, Granville; Geo. V. Rand, Wolfville; J. B. North, Hantsport; W. H. Stevens, Dartmouth; Chas. F. Cochrane, Kentville; C. E. Borden, Ganning. May 31.