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THE DAILY EXAMINER

DECEMBER 20, 1897.

SCIENTIFIC MISCELLANY.

PLAGUE VACCINATION OFFICIAL SAFETY OF ACETYLENE ANOTHER REPRIEVE—THE ERA OF PATENTS ART ARCHITECTURE—POLAR TELEGRAPHY—THE POWER OF MAGNETS—SCIENTIFIC RESULTS OF OF A BLUNDER—A SANDSTONE MARBLE—A TOWED PROPELLER.

Plague bacilli, it appears from the elaborate report of the German Government Commission to Bombay, in most cases enter the system through small wounds or scratches and the disease is mostly confined to dwellers in poor and insanitary localities. The bacilli are very quickly killed by ordinary antineptics and heating. Serum inoculations gave little protection in the Bombay epidemic, but Haffk ne's method proved very successful. This consists in inoculation with the products of bacilli culture. To a virulent growth of plague bacilli was added carbolic acid solution or essence of mustard, destroying the microbes, but leaving products having remarkable protective power. An even better vaccine resulted from heating the plague cultures to 150° F. for an hour.

Acetylene gas has power to be violently explosive under a pressure of somewhat less than two atmospheres, but reasonably free from liability to explode, unless mixed with air or oxygen, at less than an atmosphere and a half. The British Home Office has decided to consider it safe under a pressure of twenty inches of water above that of the atmosphere—or about an atmosphere and a twentieth—while regarding it as subject to the act regulating explosives if greater pressure is used. The French authorities have fixed the danger line at an atmosphere and a half and the German authorities at an atmosphere and a half, and restrict the keeping or making of the gas at higher pressure.

Nervous folk may be relieved to learn that Dr. Falb's prediction of a collision of the earth with Tempel's comet on Nov. 13, 1899, resulted from an error. Dr. F. Bidschof, of the Vienna Observatory calculates that the nearest approach of the comet in 1899 will be 11,000,000 miles.

The total foreign patents issued from earliest times to 1870 are estimated by the U. S. Patent Commissioner at 238,108 since 1870 to the close of 1896, at 819,120. The United States patents for the same periods numbered 110,573 and 463,752 respectively.

The termite mounds of Australia are quite as wonderful examples of insect architecture as the more familiar nests of the African white ants. Mr. W. Saville Kent describes three distinct types of the large mounds. The largest ant nests known are doubtless the buttressed columnar "termitaria" occurring in the Northern Territory of South Australia some forty miles inland from Port Darwin, these often exceeding eighteen feet in height, and being also remarkable for an almost equal diameter from top to bottom. Mounds nearly as large, towering above the head of a horseback rider, are to be seen in York Peninsula, North Queensland, this form tapering slightly to one or sometimes several sharp points. In the Kimberley district of West Australia a lobulated mound is very common, this type often exceeding fourteen feet and being usually conical or hemispherical in general form, but always having a lobulated appearence as of being built from nodules of half solodified mortar that in succession had partly overflowed each underlying layer. A vertical half of one of these mounds about eight feet high, having been destroyed, the ants commenced rebuilding it at a rate that would restore the structure in three to four years. The most singular though not among the largest—of all the Australian ant structures are the meridian mounds, which are elongated, resembling huge slabs of sandstone stood on edge, and always point exactly north and south. The most striking examples seldom more than six or eight feet high occur in the Laura Valley, North Queensland. Here the mounds are built in several series of pinnacles, one above another giving a highly ornate appearance, as of some grand cathedral in miniature. The reason for this uniform orientation is a mystery one possible explanation being that it offers the least exposure to the heat of the midday sun.

Improved methods of signalling will be an important feature of future polar explorations. The apparatus of Mr. E. S. Bruce, as described at the London Imperial Institute, includes a small captive balloon lighted inside by incandescent lamps, and this is to be fixed to the ship or taken away by an exploring party, in either case serving as a beacon that under favorable circumstances could be seen eight miles or more. Such balloons can be inflated with compressed hydrogen carried in steel cylinders.

The magnetization limit of iron has been found by Mr. Henry Wilde, F.R.S., to be 422 pounds per square inch, with no gain in the power of magnets by the double-pole or horse-shoe form.

While valuable scientific facts have been brought to light by untaught men, such discoveries have seldom been a direct result of ignorance. A patient who had just left an Algerian hospital, however, had been cured of sciatica of many years standing through his blundering idea that "spirit of salt" (hydrochleric acid) was a saline preparation of greater strength than the salt solution, the doctors had been administering hypodermically with little relief. Reasoning that the strong preparation should have greater effect, he painted his skin with it, with the most astonishing success. On learning of the experiment, the physicians at the hospital adopted the remedy, and Dr. C. Genates, of Montpelier, has prepared a thesis based on a dozen cases of sciatica, all of which have been completely relieved through this means. The application is simple. Three or four coats of strong hydrochloric acid are brushed over the painful part of the nerve, and the limb is covered with a cotton-wool dressing. The heat and smarting are severe but quite bearable. The application can be repeated in 24 or 48 hours, but not again for several days, less sloughs should appear. Tee twelve patients were all reported cured in three to five sittings extending over a week to 25 days. No serious inconvenience or slowing is produced by the strong acid carefully used, the watery blisters sometimes formed disappearing on two or three days.

An artificial black marble is being made at Catania, Italy, and is said to be much cheaper than genuine marble, from which it is not easily distinguished. It is made by impregnating white sandstone with a mixture of equal parts of volcanic asphalt and coal-tar pitch. The sandstone blocks are cut into the desired shapes—are supported on gratings in a large square iron tank, into which the molten mixture is admitted from an adjoining boiler, the liquid being kept boiling in the tank for 36 hours. After cooling, the stones are polished like other marble. It is claimed that the new material will resist acids, atmospheric action, heat and cold, and does not favor the development of germs.

A new electric propellor for pleasure boats sails ahead of the boat but is rigidly connected to it, the accumulator cells and switch gear being on the boat itself. The vibration is less than in ordinary stern-propelled launches, but there is probably much loss of efficiency.

Fifty Years Ago.

President Polk in the White House chair,
While in Lowell was Doctor Ayer;
Both were busy for human weal
One to govern and one to heal.
And, as a president's power of will
Sometimes depends on a liver-pill,
Mr. Polk took Ayer's Pills I trow
For his liver, 50 years ago.

Ayer's Cathartic Pills

were designed to supply a model purgative to people who had so long injured themselves with griping medicines. Being carefully prepared and their ingredients adjusted to the exact necessities of the bowels and liver, their popularity was instantaneous. That this popularity has been maintained is well marked in the medal awarded these pills at the World's Fair 1893.

50 Years of Cures.

NOTES AND COMMENTS.

—It is pleasing to read in "Toronto Saturday Night," a tale by Hunter Duvar, full of the quaint incisive humor and keen sarcasm for which our distinguished literateur is noted.

—The New York Sun in a column editorial desires to know "what hope there is for Canada if she refuses to enter the American union;" and the St. John Sun, in three lines, answers "there is the hope that she may continue her contented, happy and prosperous career out of it."

—Montreal Star: It begins to look as if the veterans in the Liberal army were becoming tired of taking out their share of the great party victory of '96 in the glorious privilege of joining in the applause. It is true that they have had since that occasion the high satisfaction of saying one to another—"Well we have beaten the Tories at last;" but even this pleasurable occupation palls when they see cherished Liberal principles abandoned, historic Liberal leaders ignored, "converted" Tories and newcomers advanced to the highest seats, and even Tory sins condoned if not bettered.

—St. John Sun: Conjecture is already busy with the question of Senator Arsenault's successor. It is said that Sir Louis Davies will give the position to another Acadian. The Acadian who is most prominent in the province is Mr. S. F. Perry, now M. P. for Prince. Mr. Perry has been several times elected to the Commons, but as his present seat is doubtful, and there is no doubt that he would prefer a seat in the other chamber, where the perversity of the electorate can never take it away from him. But then comes another question, whether Sir Louis would consider it safe to open the constituency. If he is restrained by this consideration he has in Mr. Welsh and Hon. David Laird material from which senators may be made. The present state of affairs in Quebec would suggest to Sir Louis the advisability of getting the matter settled as quickly as possible.

GRANNY'S "YARBS."

She dosed the boy with calomel,
Then gave him catnip tea,
And yet he didn't feel quite well
He had the grip, you see.

She gave him tansy, boneset, squills,
Rubbed tallow on his chest
And fed him lots of blue mass pills,
Which quickly did the rest.

By this time John could not get up,
And as he lay in bed
She drenched him from a quassia cup
Till he was nearly dead.

And when at last the doctor came
And fetched poor Johnny round
Folks said, "'Twas granny, all the same,
Kept him above the ground."

—J. L. Heaton in "Quilting Bee."

Our Seeded Raisins

are going like "hot cakes" as they are just what all economical house keepers have been looking for.

Our California Muscatel Raisins.

are the best stock we have ever handled in that line, and our sales for them are increasing every day.

Our Candid Citron Peel

sells itself on sight, being fresh clear and juicy.

Our New Flavorings

Are giving splendid satisfaction, and once used will be always used.

For all Choice Xmas Groceries

—GO TO—

Beer AND Goff's

The Question

Now is where can we get a suitable Xmas present for the least money. Below will be found a list of a few of our cut prices for the Holiday Season only, which will enable you to decide at once, as the time is now short

Eight day, half hour, cathedral gong, striking Clocks, for	$3.50
Silver Cake Baskets, (quadruple plate);	2 75
Napkin Rings,	50c up
Spoon Holders and Pickle Dishes,	1.50
A Waltham Watch with Chain (good timekeepers)	7.50
Ladies' Genuine Gold Filled Waltham Watch,	15 00
Ladies' Long Chains, warranted five years,	3.00
Ladies' Solid Gold Gem Rings, (heavy)	2.00

Brooches, Cuff Buttons, Stick Pins, Chains, Charms, etc, at extraordinary low prices. Repairing promptly attended to by a competent person. Clocks, Watches and Jewelry.

C. C. JURY

A LIST OF

USEFUL ❋ PRESENTS

—FOR—

Gentlemen.	Ladies.
Slippers	Slippers
Hockey Boots	Gaiters
Ice Creepers	Overshoes
Overshoes	Snow Shoes
Snow Shoes	Felt Boots
Moccasins	Trunks
Gaiters	Valises
	Rubbers
	Moccasins

Also.—Little Boots, Slippers, Gaiters and Overshoes for Children at

GOFF BROS

SALE OF PAPERS

The Annual Sale of Papers and Magazines at the Catholic Literary Institute, will take place in the Reading Room, on Tuesday Evening, Dec. 21st at 8 o'clock

J. M. SULLIVAN, Secretary.

Dec16—5i

A Democratic King.

The king of Sweden arranges his time to the best advantage. After an early breakfast with the queen he gives audience to public officials and Swedish, Norwegian and also foreign ministers as well as reviewing and inspecting troops, and so forth. Friday is occupied by a council meeting, and Tuesday morning is given to the public. As "father of his people," he sees even the poorest peasant and most unknown being in his kingdom who wishes to speak with him and gives audience alone, no third person being present. The evenings and indeed the best part of the night King Oscar gives up to his literary pursuits. His poems and romances are now well known for their artistic excellence.

Meteors.

Some time ago people on the Ramsgate cliffs, England, saw what was thought to be two rockets fired by a ship in distress on the Goodwins. The lifeboat went to the rescue and ascertained from the lightship men that the lights observed from the shore were not rockets, but falling meteors.

Married men who are obliged to get up in the middle of the night with the baby should study the value of the bicycle as a means of indoor travel.—Roxbury Gazette.

AN OLD AND WELL TRIED REMEDY.—Mrs. Winslow's Soothing Syrup has been used for over fifty years by millions of mothers for their children while teething with perfect success. It soothes the child softens the gums, allays all pain, cures wind colic, and is the best remedy for Diarrhœa. Is pleasant to the taste. Sold by druggists in every part of the world. Twenty-five cents a bottle. Its value is incalculable. Be sure and ask for Mrs. Winslow's Soothing Syrup, and take no other kind.

MONEY TO LEND

J. J. JOHNSTON

Barrister at Law,

Stamper Block, Charlottetown.

MORTGAGE SALE.

To be sold by Public Auction, at the Court House, in Summerside, on the sixth day of January, A. D. 1897, at the hour of twelve o'clock, noon, under a power of sale contained in a mortgage dated the twenty-first day of September, A. D. 1896, and made between Cyrus Mequeault and Peter Mequeault and Charlotte Mequeault, wife of said Peter Mequeault, of the one part, and J. Edward Wyatt, of the other part,

All and singular that tract of land situate on Lot 15, Prince County, Prince Edward Island, bounded as follows:—Commencing on the shore of Bedeque Bay, in the south-east angle of land of Thaddey Arsenault; thence along the same northeasterly seventy-two chains and fifty links, or to the southern boundary of land formerly owned by Daniel Arsenault, and land owned by Paul Perry; thence easterly along the same seven chains and one link, to land of Louis Perry; thence southwesterly along the same seventy two chains and fifty links to the shore, thence following the same westerly to the place of commencement, containing fifty acres of land more or less.

For further particulars apply at the office of J Edward Wyatt, Summerside.

Dated this 3rd day of December, A. D. 1897.

J. EDWARD WYATT,
Mortgagee

dec3—d4i—1

Lecture and Entertainment Course

SEASON 1897—1898.

St Peter's New Hall, Ch'town

Alternate Tuesdays as follows:—

Dec. 14th and 28th.
Jany. 11th and 25th.
Feb. 8th and 22nd.

Particulars of each Entertainment will be given in due course in our local columns

sept13—

FOR SALE.

A Farm at North River, consisting of 45 acres, in a high state of cultivation.

For further particulars apply to

MRS. CHARLES PAUL,
Chestnut Street, Charlottetown,

dec17

CALENDAR, DEC 1897

MOON'S CHANGES

Full Moon, 8th, 12h. 41.9m., midnight.
Last Quarter, 16th, 12h. 9.4m., midnight.
New Moon, 23rd, 3h. 42.7m., p. m.
First Quarter, 30th, 3h. 14.2m. p. m.

	Day of Week	Sun Rises	Sun Sets
		h. m.	h. m.
1	Wednesday		4 10
2	Thursday		10
3	Friday		9
4	Saturday		9
5	Sunday		9
6	Monday		8
7	Tuesday		8
8	Wednesday		8
9	Thursday		8
10	Friday		8
11	Saturday		8
12	Sunday		8
13	Monday		8
14	Tuesday		8
15	Wednesday	43	9
16	Thursday	43	9
17	Friday	4	9
18	Saturday	45	9
19	Sunday	46	10
20	Monday	46	10
21	Tuesday	47	11
22	Wednesday	47	12
23	Thursday	47	13
24	Friday	48	13
25	Saturday	48	14
6	Sunday	48	15
27	Monday	48	15
28	Tuesday	49	16
29	Wednesday	49	16
30	Thursday	49	17
31	Friday	49	4 18

HAVE YOU TRIED

A wee drappie o' Pattison's Rare Old Whisky,

The best and safest stimulant for Medicinal and beverage use, Pattison's Whisky has established itself in favor with leading Physicians and Therapeutics in Great Britain and the Colonies, whose testimonials bear witness to its action as a speedy, safe and gentle stimulant.

Pattison's Whisky is remarkably and exceptionally uniform in age, quality and flavor, and is free from the injurious defects incidental to the many inferior brands upon the market, which are largely made up of newly distilled whiskies and raw grain spirits.

For Invalids an adultrated Whisky is Dangerous

For sideboard use it is abominable.

Ask your wine merchant for a wee drappie o' Pattison's Whisky.

For sale by all authorized vendors, and wholesale by

J. & T. Morris, Charlottetown

SOLE AGENTS FOR P. E. I.

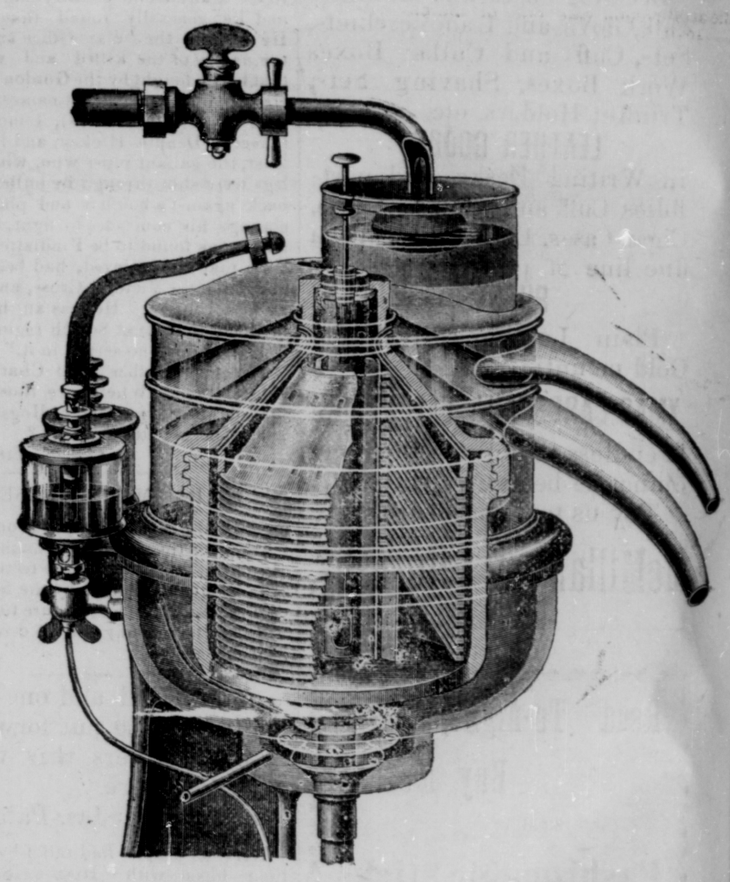
Reduced Prices For Today

To reduce our large stock of woolen underwear we give the following prices:

50c suits for	40.
55c suits for	35.
60c suits for	45.
75c suits for	60.
$1.00 suits for	80.
1.25 suits for	1.00
1.50 suits for	1.20
1.75 suits for	1.40
2.25 suits for	1 80

Proportionate discounts off top shirts. These are genuine reductions off goods already marked low.

D. A. BRUCE



A PRIVATE DETECTIVE After a Government Official

We are in the Dairy Supply business to stay, notwithstanding the unfair competition of an official whose travelling expenses are paid out of the public funds. We pay our own and will compete with any of the Quebec houses thus represented, for quality of workmanship in cheese vats, creamery vats, either single or duplex, portable or stationary, tempering or receiving vats, and all other Dairy Supplies in stock or to order at short notice.

We have on hand Alpha Separators which return more money to the patrons than any other.

Separator oil that will insure safer running at extreme speed than any other on the market.

Butter Boxes for storing and shipping butter in.

Dairy plants that will run without an expert engineer on hand.

Boilers that will save fuel over any other that has been imported so far. Engines that do not require to be driven at extreme speed to obtain enough power. All work warranted for one year.

Call at our up town store in the Temple, Grafton St, Charlottetown.

T. A. McLEAN

Successor to McKinnon & McLean.