MC2398

POOR DOCUMENT

WHERE LIGHT IS MADE.

THE THREE STATIONS WHICH WIL SOON BE COMPETITORS.

Something on the Advancement of Our Lighting System During the Past Few Years—The Pioneer Company Which Started with Two Lights—The Electric Railway and Other Interesting Information.

Dalibard was the first to demonstrate that electricity and lightning are the same—on the 10th of May, 1752. One month later Benjamin Franklin flew his famous kite at Philadelphia, and proved the fact for himself. The incredulous took many years to accept this proof, but, after all, electrical science was then at a very primitive stage. Even now, when its subtle influence has been adapted to hundreds of uses by man, it remains incomprehensible and mysterious. The most sanguine disciple of Franklin or Dalibard could never have conceived the advancement to be made by the discovery of this one of nature's forces, and yet electrical appliances of every description, are today in common use. It would seem at the present time utterly impossible to dispense with the electric telegraph, the electric telephone, the electric light. Their novelty may, perhaps, have ceased to be a novelty, but their value to mankind can never deteriorate, unless other and more applicable inventions take their place, a change which appears as yet far off.

Electricity is the power which enables the old world to directly communicate with the new, and the new with the old; which makes conversation possible with friends miles away; which lights our streets, stores and houses; and it is with the advancement of our lighting system during the past few years that this article has to deal. It is not very long since an electric light was a veritable curiosity in St. John, or in the lower provinces. Our citizens looked upon the first light with pride, and our country neighbors drove into town to see it. It created a favorable impression, although in the meantime there have been some improvements made in its construction. Merchants began to adopt the new system; and soon a large number of the places of business were brilliantly illuminated by this means.

The Calkin Electric Light company was the pioneer, and this was established by Mr. J. Calkin about six years ago. The plant of the concern consisted of one dynamo—a two-lighter, with the ordinary operating power. The old dynamo is still in possession of the company, which during the first year or two of its existence had rather an uphill grade to travel. It is interesting to know that a new company, under the same name, has been incorporated, and that operations will be facilitated by the employment of $250,000 capital. Among the stock-holders are a number of prominent citizens, and it is safe to say that the progress of the past will continue in the future. The old station of the Calkin Electric Light Company is situated on Princess street, but there is significance in the fact that a property on Johnston wharf has been purchased, including the Wishart building, and that the interior of this has been remodled to suit the purpose of an operating station. The building is 80x45 feet, and is three stories high. It is proposed to have the engines and counter shafting on the first floor, the dynamos on the second, and to convert the third into a general store room, with sleeping apartments adjoining.

In the new station there will be two engines, Armington & Sims' compound, surface condensing, of 250 horse power, and one Ball engine, 150 horse power, tandem compound, surface condensing. Each of these will be operated from separate and independent condensers and pumps, so that, in case of a possible accident there will be no danger of the lights going out, any two of these being capable of carrying the full supply. Friction clutched pulleys will be used exclusively, and by this means the machinery can be stopped without reference to the engines. The boilers which will be used are the Kingsley patent, and these are now being built for the company by Mr. James Fleming. They will be capable of developing 600 horse power. In addition, a Babcock & Wilcox sectional boiler of 100 horse power will be put in.

The foundation for the chimney has already been prepared, and as the stack will stand 125 feet in height, a pretty solid foundation is required. The plant consists of 4000 incandescent lights, Slattery induction system, and 340 arc lights, Brush and Wood systems. All the newest and most improved appliances for supplying light economically will be employed, for it is the intention of the company to not only give a good service, but to do so with as reasonable an expenditure to the consumer as possible.

There are 12 dynamos, 4 of 60 arc lights each, 3 of 30, 1 of 10, and 4 of 1000 incandescent lights each, making in all 340 arc and 4000 incandescent.

The Johnston wharf is being rebuilt and foundations for the engines and boilers being put down. The wharf property extends from low water mark to Water street, and is one of the best sites in the city for electrical purposes. The coal sheds will be erected adjoining the building, so that vessels may discharge their cargoes direct.

It is proposed to operate the present station until everything is in readiness in the new station. Then the removal will be made in a night and a day.

Among the contracts which the company have received, is that for lighting the streets of St. John, which will necessitate the use of 100 lamps. The plant for this purpose has arrived, and Mr. Calkin is now only awaiting the signing of the contract by the city. The lights will probably be in operation by the fall exhibition.

Two gangs of men are constantly employed wiring up buildings under the supervision of Mr. L. R. Dennis, general superintendent for construction, of the Fort Wayne Electric Company, and 1000 lights have already been put in position. A large number of the principal hotels and places of business have been fitted up with the incandescent light by this company, and in all probability this system will be generally adopted for house and shop lighting purposes.

Mr. Geo. F. Calkin is manager, and Mr. Hugh Andrews, chief superintendent, and both these gentlemen have an experience which qualifies them in every way to serve the interests of the company with which they are connected. The success of the Calkin Electric Light Co. has been gratifying, not only to the company itself, whose footing is bettered thereby, but to the general public who are enabled by its progress, and the progress of other electric light companies in this city, to benefit by a more efficient and a more economical lighting service.

The St. John Gas and Electric Light Company's station affords as much of interest to the enquiring mind as any other mechanical establishment in the city. Here, the monotony of the whirling machinery is broken by the flashes of electricity which play about the dynamos, and the ordinary visitor is not inquisitive enough to investigate too closely. The building, which is situated on the corner of St. James and Wentworth streets, is well adapted for the purpose which it serves. Below the main building, and to the right, stands the huge smoke-stack, 115 feet in height, with 6 feet 6 inches internal measurement. There are four boilers built into the massive brick wall. The boiler house and coal sheds extend over an area of 75x80 feet and are divided by a heavy partition. The dynamo room, which is the one of interest to the visitor, is the place of noise, bustle and light. Here there are 10 large machines, operated by five engines, one of these being a Thompson alternator capable of supplying 1,300 lights, and the others varying from 50 arc lights each to 20, Thompson-Houston system. Of the five engines, one is a Leonard Ball Automatic machine, capable of developing a speed of 280 revolutions a minute and an acquired velocity of 86 horse power; one, a Leonard Compound, 150 horse power, and the other three of smaller size.

Throughout the machinery and connected with the lights are regulators and controllers, which preclude all possibility of interference by external causes. Wires may become crossed or disconnected, or may be interfered with in some way, but the other wires at the station are not affected by this, which is a great improvement on the old system. Each engine is independent of the others, and all connections are made separate and distinct. Besides the ordinary belting the company uses one of the patent link belts, deriving three benefits thereby. It is perfectly flexible, and takes up its own stack, air-cushioning is avoided, and the belt itself is not affected by the weather. Above the dynamo room is the switch room, with its series of cross boards to which the wires are attached.

The incandescent dynamo is a bulky machine and is operated independent of the other machines. It has lately been put in, and with the various appliances connected with it presents an object of considerable interest. The Gas company supply a great number of lights throughout the city and every day their business is increasing, men being now at work fitting into stores, houses and churches numbers of their incandescent lights. Improvements and additions to the present plant are being considered, and the GAZETTE will take care to chronicle these on time.

Another company has been organized here, the Eastern Electric Company, to be under the superintendence, of Mr. A. A. Knudson, the well known electrician, who had charge of the recent exhibiton. This is an off-shoot of the St. John Street Railway company whose intention it is to substitute electric cars for the present system of horse cars.

Anticipation with regard to the electric railway has run high. People have been asking when will it be established, and the answer Mr. Knudson makes is, "early in the fall." The cite for the new station of the company has been purchased—on the corner of Union and Smythe streets. The building will be of brick, 100x50 feet, two stories high, with basement for the engines. In all there will be three engines, two Mackintosh & Seymour, and one Armington & Sims. There will be four incandecent dynamos, supplying 3,000 lights. Arc lamps may be put on the incandescent circuit. It is also the intention of the company to run motors, for the convenience of those who wish machinery operating power supplied. These will be attached to the incandescent circuit and will be run day and night. The plant is manufactured at Sherbrooke, Can., and none but Canadians will be employed at the station.

The principal object, however, of the company is to furnish the power by which the railway will be operated. New cars will be put on the road, larger than those now used. These will be in charge of a conductor. No danger, whatever, is involved in the running of the electric cars as there is no possibility of a shock being sustained.

The poles which will be used throughout the streets are exceptionally fine. They will be octogan shaped several feet up, and will taper to the top, round. Care will be taken in stretching the wires and painting the poles.

The company, under such efficient management, should look for a prosperous future for it is their intention to give as good and as economical a service as any of their competitors.

The incandescent light is claimed to have infinite superiority over gas. It is at least brighter, steadier, clearer, and the indications are that it will be adopted generally for house and shop purposes. With three stations in full blast there is no necessity of St. John ever again being in darkness. We have the illuminating power, and with fair competition, the cost to the consumer of illumination will likely be materially decreased.

A Priceless Treasure.

E. A. Cardinal, Montreal states:—After ineffectually trying many of the so called remedies for catarrh, I made a trial of Nasal Balm which gave me instant relief. It changes the unpleasant odor of the virus in the throat and the poisonous secretions over which every breath must pass. To any thus troubled it is a priceless medicine.

Exports.

LIVERPOOL. SS Murciano, 1,136,860 feet deals and battens, 161,427 feet deal ends, 75,252 ft scantling, 44,452 ft boards, 43,183 ft birch plank, 3613 ft birch scantling and ends by Alex Gibson.

LONDON. SS Damara, 43 bdls metal sheathing 25 casks hemlock extract, 863 cases canned lobsters, by Schofield & Co.

NEW YORK. SS Valencia, 1 bbl manganese, 100 pkgs household effects, 300 cases canned lobsters, 4 cases fresh salmon 10 bbls fresh mackeral by Frank Rowan.

BOSTON. Schr Temperance Belle, 900 bbls lime, 267,000 spruce laths by Stetson Cutler & Co.

CITY ISLAND for sydney. Schr Wendall Burpee, 153,095 ft spruce deals by Stetson Cutler & Co.

SLIGO. Brigt Moss Rose, 442,254 ft deals and battens, 17,991 ft deal ends by W M Mackay.

DANVERSPORT, Mass. Schr Westfield, 118,057 ft spruce boards by Stetson Cutler & Co.

CLIMO'S WORK should be seen at his rooms by those who desire the finest art effects in photography, 85 Germain street.

MACAULAY BROS. & CO.,

61 and 63 King Street.,

Have just received from the

Nottingham Manufacturers

One Hundred Pairs

—OF—

Lace Curtains

—IN—

CREAM and WHITE.

As they have been secured by us 10 per centum below the present prices together with the fact that they arrived too late for the spring or early summer trade and to early for fall buyers, we have decided to mark them all at prices that will induce buyers outside of the season consideration.

Prices $1.65 to $9.00 per Window.

Macaulay Bros & Co.

For a Delicate Flavor

USE

STAR CHOP BLACK TEA.

WHOLESALE BY

W. FRANK HATHEWAY,

17 & 18 South Wharf.

MARRIAGES.

BUCHANAN-LISSON—At the residence of John Lisson, father of the bride, on the 22rd inst., by the Rev. Allan W. Smithers, B. A., Henry Buchanan, of the Parish of Waterford, to Sarah McGee Lisson, of the Parish of Sussex, both of King's County.

DEATHS.

CARR—In this city, on the 22rd inst., C. H. Carr, aged 49 years, leaving a wife and six children to mourn their loss.

(Boston papers please copy.)

☞Funeral on Sunday, at 2 o'clock, from his late residence, 191 Brussels street.

Summer COMPLAINTS

Fellow's Speedy Relief

is a most certain remedy for

Cholera, Diarrhœa, Dysentery. Colic, Cramp in the Stomach and all Summer Complaints.

GIVE IT A TRIAL.

PRICE 25 CENTS.

For sale by all Druggists and General Dealers.

JOURNAL OF SHIPPING

Port of St. John.

ARRIVED.

July 25.

Stmr Cumberland, 1188, Thompson, Boston via Eastport, mdse and pass. C E Lesebler.

Bark Antionette, 1125, Robertson, North Shields, bal R O Elkin.

Brigt Edmund, 148, Burns, St Kitts, WI general cargo, Turnbull & Co.

Brigt Ohio, 348, Crawford, Boston bal Scammell Bros.

Am Schr Ada G Shortland, 215, McIntyre, New York, bal Peter McIntyre.

Schr Lillie G, 78, Barton, Rockport, Me, bal Jas McAlary.

Schr Gleaner, 116, Thurber, New York, coal Scammell Bros at St George.

Schr Rangola, 76, Day, Quaco.

" Jessie D, 86, Yorke, Jogging.

" Lost Heir, 14, Richardson, West Isles.

" Electric Light, 33, Poland, Campobello.

" Wave, 45, Mathews, Apple River.

" Temple Bar, 44, Longmire, Bridgetown.

" Lizzie P, 12, Thurber, Freeport.

CLEARED.

July 25.

SS Damara, 1145, Dixon from London via Halifax, gen cargo and pass, Schofield & Co.

Span SS Murciano, 1552, Urjizar, Liverpool, deals etc, Alex Gibson.

Schr Wendall Burpee, 99, Wasson, City Island f c deals, Stetson, Cutler & Co.

Schr Temperance Belle, 90, Moore, Boston, lime and laths, Stetson Cutler & Co.

July 26.

Brigt Moss Rose, 371, Donovan, Sligo, deals etc W M Mackay.

Am Schr Wm Wilson, 253, Whelply, New York, deals, E G Dunn.

Am Schr Hattie E King, 272, Collins, New York deals S T King & Son.

Schr Dione, 200, Williams, New York, deals A Cushing & Co.

Schr Cora May, 124, Fowler, City Island f o deals, Stetson Cutler & Co.

Schr Westfield, 80, Belyea, Danversport, Mass, boards, Stetson Cutler & Co.

Schr Sarah, 117, Gough, New York, deals, J R Warner & Co.

Schr Josie F, 95, Cameron, Boston, lime and lath Stetson Cutler & Co.

Schr Olio, 194, Wilcox, Boston, boards E G Dunn.

Schr Valetta, 198, Fardie, Boston, lime and laths Stetson Cutler & Co.

Schr Ballarene, 49, Swayne, Port La Tour.

" Hope, 34, Hudson, Bridgetown.

" Electric Light, 33, Poland, West Isles.

" Emma, 43, Durant, Parrsboro.

" Emma, 43, Durant, Parrsboro.

" Florence Guert, 36, Atwood, Annapolis.

" Ocean Bird, 44, McGranahan, Windsor.

" Helen H, 51, Higgy, Apple River.

" Lost Heir, 14, Richard on, West Isles.

Canadian Ports.

ARRIVED.

Chatham, 24th inst, barque Alert, Olsen, from Buenos Ayres.

Rockport, 22nd inst, schr Walter Miller, Hogan, from New York.

St Andrews, 22nd inst, schr Syanara, Henshaw, from New York—will load ice at Chamcook for New York.

Sackville, 22nd inst, brigant Herbert, Towse, from Barbados.

Windsor, 21st inst, barquentine L M Smith, Smith, from Boston; 22nd, schr Navassa, Hatfield, from Red Beach.

CLEARED.

Sheet Harbor, 17th inst, barque Elida, Larsen, for Garston; schr Thomas Robertson, Hopkins for Boston.

Chatham, 24th inst, barque Liberte, Olsen for Plymouth.

British Ports.

ARRIVED.

Belfast, 22nd inst, barques Prinds Oscar, Hansen from Newcastle; Celerilas, Hansen from Richibucto.

Fleetwood, 22nd inst, barque Indiana, Anderson from Baie Verte.

Singapore, 23rd ult, ship Kambira, Brownell, from Batavia.

Kingston, Ja, 13th, brig Ventura from Glace Bay.

Dublin, 22nd inst, bark Forsoget, Tellfsen from Quebec.

Glasgow, 24th inst, bark Alida, Bodtker from Campbellton.

Barbadoes, 6th inst, bark Minnie, Mulcahey from Bahia.

SAILED.

Cardiff, 24th inst, barque Still Water, Trites, for Rio Janeiro; 23rd, bark Ariadne for Miramichi.

Swansea, 23rd inst, barque Calliope, Nickerson, for St John.

Foreign Ports.

ARRIVED.

Boston, 24th inst, brigt Acacia, Hammett from Miragoane; schrs Isabella, Ferguson from St John; Nellie Clarke, Gayton from Hoboken.

Buenos Ayres, 23rd inst, barks Romanoff, Doty from New York; Nellie Moody, Sabean from Yarmouth.

Rotterdam, 22nd inst, bark Avonport, Lockhart from New York.

Rio Janeiro, 20th inst, bark Osberga, McKay from Penarth.

Philadelphia, 24th inst, bark Nora Wiggins from Sagua.

Providence, 24th inst, schr Valdare from St John.

Provincetown, 24th inst, schr Muriel from Fajardo for orders.

New York, 24th inst, bark Albertine from Windsor; 25th inst, schr Carrie Belle, McLean, here.

CLEARED.

Boston, 24th inst, schr Kezia, Landry for Richibucto.

Salem, 23rd inst, schr L P Hatch for Thorne's Cove.

New York, 24th inst, schrs E H Foster for Quaco; Isaac Burpee for Shulee; brigt Britannia for Bridgetown Bar.

SAILED.

Antwerp, 22nd inst, stmr Eri King for Montreal.

Rio Janeiro, 19th inst, ship Abbot port, Aligren for New Mills.

Providence, 24th inst, schr Cecelia for St John.

Hoogs, 2nd inst, ship Celeste Burrill for Victoria.

New York, 24th inst, brigt CC Vanhorn for Windsor.

Pisagua, June 21, bark Marquis of Lorne, Vickery for Pignon Point, Delaware.

Montevideo, 22nd inst, ship New City, Bray for Sandy Hook.

Memoranda.

Baracoa, in port July 8th, schr James Wotherspoon, Willets for New York, to sail about 25th.

Colon, in port July 16th, bark C P Dixon, Merriman for New York; schr Topaz, Rowe from Liverpool.

Matanzas, in port July 19th, bark Roland; Finlayson for North of Hatteras.

Passed Deal, 23rd inst, barque Agra, from London for Miramichi.

Passed St Helena, 16th inst, ship Flora P Stafford, Smith from Iloilo for New York; barque Arizona, Robbins from Manila for Montreal.

A LARGE STOCK OF

English Oilcloths and Linoleums

in all Widths. 30 Patterns to select from.

ALL QUALITIES.

8-4 Heavy English Linoleums, at 50c.

A BARGAIN.

Remnants of Best Goods at cost, from 1 to 20 yards.

CALL AND GET ESTIMATES.

HAROLD GILBERT,

54 KING STREET.

FISHING TACKLE.

OPENING TO-DAY,

English and American Fishing Tackle,

—IN—

Rods, Reels, Silk and Linen Lines, Tied Hooks, Gut, Fly Books, Hooks, Flies, etc., etc.

WHOLESALE AND RETAIL.

CLARKE, KERR & THORNE,

60 and 62 Prince William St.

FREE! FREE!! FREE!!!

Samples of our Teas can be had at

THE SARYUNE CONGOU TEA STORE

Mill Street, near I. C. R. Depot.

For Strength and Flavor our Tea cannot be Equalled.

PRACTICAL TEA TASTERS AND BLENDERS.

WHOLESALE AND RETAIL

H. W. BAXTER & CO.

DANIEL & ROBERTSON,

London House

Retail.

OUR STOCK OF

Gentlemen's Furnishings

is complete with the newest things for Summer Wear; and we ask special attention to the assortment of

Kid Gloves, Ties,

Underwear, Hosiery,

White and Regatta Shirts,

Collars and Cuffs,

HEINRICH'S GELATINE,

in 1 oz. and 2 oz. packages, White; 2 oz. packages, Rose.

KEILLER'S MARMALADE,

a new lot just received.

FRENCH STRAIGHT MACCARONI,

in 1 pound packages.

ITALIAN CURLED MACCARONI,

in 4 pound boxes.

JARDINE AND CO.

BAMBOO EASELS at all prices.

—ALSO—

A large stock of FANCY CHAIRS.

A. J. LORDLY & SON,

MANUFACTURERS OF

FINE FURNITURE in MAHOGANY, OAK, CHERRY and WALNUT, newest designs and beautifully finished.

93 and 95 Germain street, St. John, N. B.

GET THE BEST.

Smoke SARATOGAS

Hand Made, Havana Filled.

10 in Bundle for 35 cts.

A. ISAACS,

72 Prince William Street.

NOW THAT THE BIG RUSH IS OVER,

I have again got my stock fully sorted up, and am now showing a better ASSORTMENT THAN EVER. The low price at which I have been selling

FURNITURE

has been a marvel, and a visit to my store will convince anyone that this is still being continued. NO NEED TO ENUMERATE. For Quantity, Variety, Value and Elegance the stock of all kinds of

HOUSEHOLD FURNITURE is hard to Surpass.

Prompt attention paid to all who call, whether purchasers or not.

JOHN WHITE, - - 93 to 97 Charlotte St.