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## victoria and esquimalt

## Telephone Company （エエコヘエエヨコ．）



RULES，REGULATIONS，STATIONS，ETC．
FOR THE GUIDANGE OF SUBSCRIBERS．

CENTRAL OFFICE：
wells，fargo \＆CO＇S block，trounce street， viotoria，b．c．
J. H. Innes, President.
R. B. McMicking, Managr.
E. C. baker, Smerhtary.

## VICTORIA AND ESQUIMALT

## TELEPHONE COYY, Limited

head office:
TROUNCE STREET, - - VICTORIA, B. C.

Incorporated by Act of Provincial Legislature, and Licensed under Patents held by the Bell Telepone Co. of Canada.

## gitretors:

JAMES H. INNES, ALEX. A. GREEN,

ROBERT P. RITHET, EDWARD A. McQUADE, Capt. J. D. Warren.

Receives orders from occupants of Houses, Stores, etc., in the City for its apparatus, which is connected by wire with the Central Office. Supplies Telephones, and all necessary instruments for use on private lines.

Undertakes the construction of Private Lines, and their equipment, and transacts a general Telephone and Electric business.

Electric Bells, Burglar Alarms, Annunciators, etc., furnished and putin. Agents for the Electric Light.

Special attention paid to City Messenger Service.

## The TELEPHONE <br> －FOR－

## Cheap and Quick Communication by Direct Speech，

## TIME AND IIITTANCE OVERCOME．

The speaking Telephone has now attained to such sim－ plicity and cheapness as to render it universally available for public，private，social or business communisations．It is perfectly clear，and always ready to provide instantaneous communication．

No skill is required by the users except to speak plainly， and listen attentively．The instrument is neat，and an orna－ ment to any room or office．

The telephone conveys the quality of the voice，so that the person speaking can be recognized at the other end of the line．It transmits all languages with equal facility，and as fast as the person speaking would ordinarily converse． It enables the manufacturer to talk with his factory Supt．， the main office with the branch offices，the house with the store，the country residence with the stables or any part of the grounds，the mouth of the mine with its remotest work－ ings，or in short，any given point with any other point， although many miles apart．

## ばそもでも

## HENRY SAUNDERS,

## Grocer and Pxovision Dealer

JOHNSON ST., VICTORIA,

And at ESQUIMALT, BRITISH COLUMBIA.

THLEPFIOND CAL工s, No. 21 \& 28.

Orders by Telephone Solicited and Executed with Dispatch.

## The "Blake" Transmitter.

The telephone already described does not need any battery to operate it, and in ordinary cases answers every purpose; but for easy and rapid communication in noisy places, or over long lines, a more joworful form of telephone known as the "Blake" transmitter shonld be nsed. This instrument can be used only as a transmitter, and requires a telephone to receive with. Combined, they are the most complete and perfect set of instruments that can be used for telephonic communication.

## 

The "Victoria and Esquimalt Telephone Company," are placing in operation a District Telephone Service in this city, using for that purpose the "Bell" telephone and the " Blake" transmitter.

The lines will connect offices, private residences, courts, law offices, banks, doctors, druggists, wholesale and retail stores, public buildings, hospitals, steamboat offices, police stations, livery stables, fire halls, ete., with the central office, in such a manner that a subscriber may communicate with these or other places on the lines, or converse with any person who may from time to time become a subscriber.

The central office can, at a moment's notice, connect one subscriber with another; subscribers can thus communicate with the family physician; speak direct with a grocer to order groceries; a market to order meat, fish, etc., order cabs, hacks, etc., without leaving the house.
(6)

## ROCK BAY SAW MILL Wm. P. Sayward, Proprictor. Manufacturer and Dealer in Island Lumber and Spars

 KEEES CONSTANTLY ON IUAND A WELL-SELECTED STOCK OF ROUGH AND DRESSED LUMBER, WINDOWS, doors, mouldinge etc.CR Orders by Mail or Telephone promptly attended to.

A. J. LANGLEY.
(Fintablished in 1858.) H. L. JONES.
 Physicians' Prescriptions and Family Receipts accurately Dispensed.

## Messenger Service.

Messengers are in constant attendance at the central office, and can be summoned by telephone to do service in any part of the city fris a low charge, from 9 a.m to 6 p.м. [See tariff.]

They are polite, efficient, reliable, thoroughly drilled in their duties, and competent to perform any reasonable service.

They will be found especially useful, and will commend themselves in the delivery of notes, invitations, circulars, light parcels, etc., in the city; in accompanying small children to or from school, or elsewhere, in inclement weather; in escorting ladies through the city after nightfall; in directing strangers to the city to any given point within its limits, or in performing any similar service for which a sprightly, intelligent youth can so frequently be used to a

## TERMS.

No charge for attending calls ordering hack, coal, police or announcing fire. Messengers, when used for other purposes, 10 cts. for fifteer! minutes or less, and after, the rate of 15 cts. per half hour, when required for a longer time than fifteen minutes. Special contracts made for the delivery of invitations, circulars, etc., and for mail delivery.

Signals: The Company furnish two classes of signals, (as circumstances demand), each being operated in a manner peculiar to itself. No. 1 or "magneto" signal is a large wooden box, with two bells, a crank, and press button.

## GARESCHE, GREEN \& COMPANY,

## 

GOVERNMENT STREET, VICTORIA, B. C.

Deposits received in Gold, Silver and U. S. Currency. Interest paid on the same on time deposits.
Gold Dust and U. S. Currency purchased at Highest Market Rates Sight Dratts and Telegraph Transfers on SAN FRANCISCO, NEW Y(ORK AND CANADA.

Exchange on London available in all parts of Europe, England, Ireland and Scotland.

Letters of Credit issued on the principal cities of the United States, Canada and Europe.

> AGENTS FOR WELLS, FAIt(iO \& CO.

Telephone Call, Residence: No. 7 .
H. F. HEISTERMAN \& CO.

Real Estate and Insurance Agents, Conveyansers, \&c.


AGENTE FOR
Real Estate and House Property in the
City and Country.

FOR THE Phenix Fire Insurance Co., of Brooklyn, N. Y.
" Travellers Life and Accident Insurance Co., of Hartford.
". Firemen's Fund (Marine) Insurance Co., of San Francisco and Washington Territory.
" Mutual Life Insurance Co., of New York.
Telephone Call, 55.

No. 2 or "electric" signal is a small iron box, with one bell, and lever.

To signal with No. 1: Turn the crank briskly several times while pressing the button at bottom or side (they vary in construction). The bells will ring when you signal, and also when you receive a reply.

To signal with No. 2: Draw the lever down until it covers the word "Telephone," let go suddenly and the lever will return to its normal position, registering your number at the central office in its transit. Be careful not to impede or hasten its return after having once let go. Its backward motion must be regular. Unlike No. 1 method, your bell will not sound when you make a signal, but can only be acted upon by the operator at the central office, who will ring it in reply.

Calls received are answered by you in a similar manner.
In either case after making a call, leave the telephoue on its hook until your bell is sounded in reply.

Except where two or more offices are on the same line, all signals are made to, and received from the central office.

If you wish to speak with another office, make a signal, and inform the central office of the number desired; then: Keep the telephone to the ear, hard against the ear, while you are being switched on, until the number asked for is heard to speak.

In every instance after a signal has been exchanged the central office attendant is the first to speak.

When you desire to cease conversing so intimate before hanging up your telephone.
'Always hang the telephone on its hook when done. Your bell cannot be sounded while your telephone is off its hook.
 REAL ESTATE AND COMMISSION AGENT， Conveyancer and Notary Public． MASTER MABINER AND MARINE SURVEYOR．
SECREエMET TO エエIE
Board of Pilot Commissioners．
Board of Trade．
Howe Mining Co．，Limited．
Art Union of London．
Victoria－Fsquimalt Telephone Company．

Office on Langley St．，First Floor Fardon＇s Building
Office Hours：Nine A．m．to six P．m．
Telephone Call， $37 . \quad$ Residence， 8.

> W. R. CLARKE,

## MASTER MARINER，AUCTIONEER，PORT WARDEN

AND

## FIAR卫OE MASTER．

OFFIOE，YATES STFRE円TI．
（Between Langley and Wharf．）

Telephone Call， 18.
Residence， 33.

One signal shocld get a reply; if not, wait one minute and call again; failing a reply after the second signal, it is fair to assume that the line is interrupted, and the central office should be notified promptly.

When you hear the bell ring go quick!y, if possible, and reply.

Do not allow any tricks or tampering with the instruments.

Profanity or vulgarity over the wires is prohibited.
When using the telephone alone, speal; into it with mouth near but lips not touching it, and listen with it pressed firmly against the ear, well back, so that the rim of the ear is caught in the bell of the telephone. Beginners usually place it too lightly against the ear and too far forward; a little practice will regulate the movement.

When using the transmitter in conjunction with the telephone, keep the telephone constantly at the ear, and speak with the mouth about six iuches distant from the transmitter. Let the voice be natural and not too loud. If too loud a tone is sent into the transmitter it will produce a rattle or confused sound--audible, but unintelligible alike to speaker and spoken. This should cause the tone to be moderated.

Tubscribers will confer a favor by promptly reporting to the Manager any trouble with their instruments, delays, or any apparant inattention or incivility on the part of the employees of the Exchange

Nou-subscribers can, for a moderate charge,(see page 12) have the privilege of conversing from the central , fice with any office in the system.

The central office is open at all hours, both day and night.

## VICTORIA AND ESQUJIMALT TELEPHONE CO． <br> （LIMITED．） 

CENTRAL OFFICE：

## TROUNCE ST． VICTORIA，B．C．

## エA円エFF：

Hand Telephones per Month，in Advance，for Stations Within $\frac{1}{2}$ Mile of Central Office，


## For Transmission of messages of Non－Subscribeis：

For every Message to or from Esquimalt not exceedtng 25 words． ..... 25 cts
For every additional ten words ..... 5 ctsFor every Message not exceeding 25 words transmittud from CentralOffice or between the various stations in the City ．．．．．．．．．．．．．．．．． 10 et，
For every additional 15 words． ..... 5 cts
Delivery of Messages：

For every Message to any place within half a mile of the Central Office，Victoria


For Delivery in Esquimalt（i．e．Town proper）．．．．．．．．．．．．．．．．．．．．．．．121／2＂

The free use of the Esquimalt Line is included in monthly rental of subscribers；but messages over said line between subscribers and non－sub－ scribers，if ou the business of the latter，will be charged for at the foregoing rates．

All Messages by non－subscribers musit be prepaid．
Til Subscribers are uautioned against allowing their Telephones to be used by persons who are not subscribers；as it is against the rules of the Company．

## 

It will be the endeavor of the Company to offer such facilities as will conduce to the establishing of a system of Telephone Fire Alarm in connection with the central office system of telephone, and having direct communication with one or more of the Fire Halls, and the Water Works, in such a manner as that in the event of a fire in any part of the city, the central office will be notified from the office of the nearest subscriber, and instantly the office attendaut will strike the number of the office giving the information, on the large fire bell, repeating it as often as may be considered necessary to give full information.

The water works will also be notified of the existence of a fire, that the supply of water may not only not be shut off, but if needs be, further increased.

Such a system has been found to work beneficially in other cities in curtailing the loss of life, in some instances, is the ratio of over 100 per cent., and should commend itself specially to the attention of insurunce companies and others in this city.

Hear the testimony of some of those who have tested the efficiency of an electric fire alarm:-

Montreal.
As the simplest illustration of the great value of the electric fire alarm, we have the fires and loss for a fair average year, before and since its introduction:

Before, 85 fires . . . . . . . . . . . . . . . . 8140,088 loss.
Since, 99 fires. . . . . . . . . . . . .
35,428 loss.
A. Bertram, C.E.F.D.

Troy, N. Y.
The fire alarm telegraph has been in successful operation in our city for the past six years. It has ever been a reliable safeguard over the lives and property of our citizens.

Richard F. Hall, Fire Commissioner and Chairman of committee on Fire Alarm Telegraph.

## THOMAS SHOTBOLI,

## CHEMIST \& DRUGGIST

IMPORTER OF
Patent Medicines, Periumery, Brushes, Sponges, \&c. JOHNSON STREET, VICTORIA.

Telephone Call, No. 56.

# QUAFIN'S MIARKRT, 

 GOODACRE \& DOOLEY,

WHOLESALE AND RETAIL BUTCHERS.

Fresh \& Salt MLeats:
PURVEYORS BY APPOINTMENT TO
HER MAJESTY'S ROYAL NAVY.

Shipping Supplied at Lowest Rates. orders by telephone solicited.

Cambridae, Mass.
I esteem the telegraph (fire-alarm) as having been the means, on several occasions since its introduction in 1869, of saving millions of dollars' worth of property; for by its ready summoms the department has been enabled to make quick responses and hence satisfactory perfornances at fires. It is an adjunct which no fire department in a large city or town should be without.

> P. N. Raymond,
> Chief Engineer.

We considerit a great saving of expense

> R. M. Rrchardson,
> Mayor of Porthand, Me.

In my opiniou there has been no expenditure by our city that has given sueh universal satisfaction.

> Jacob M. Lewis,
> $\quad$ Mayor of Lynn, Mass.

In this city we would mueh prefer to have four steamers with the telegraph than cight steamers without it, and the same will hold gocd in any city.

Jas. H. McQuade,
Chief Albany Fire Department.
The fire alarm telegraph, whieh was introdneed a little more than a year ago, has so won its way to popular favor, that few citizeus would willingly be without the protection it affords.
(From the inaugural of Mayor Farson)
Chelsea, Masz.
The telephone has long since ceased to be regarded as an ingenious toy, and its usefulness is now made manifest in almost all countries and among all classes.

That sceptics are still to be found among those who refuse to understand or from concealed motives systematically decry its claims to success, is equally true; yet the fact remains that any person of ordinary perceptive ability, found willing, can, and does converse with as much ease and facility as if personally present. Several causes may intervene to detract from the satisfactory results otherwise obtainable, such as are always to be found either in the construction of the line or in the manner in which it is being operated.

To exhibit fully the capabilities of the instrument, the circuit must be perfect, and be operated appreciatively.

# T. N. HIBBEN \& CO. bOOKSELLERS, STATIONERS, AND NEWS AGENTS. 



We have not left a stone unturned to have formed connections with the best and cheapest markets, avoiding all possible importations from factors or jobbers, relying upou orders filled directly from the publishing houses and paper manufactories.

This enables us to fill definite orders for books at publishers' prices, with absolute transportation charges only added.

Paper of the various grades in unbroken packages of five quires and upwards, and other classes of stationery in their original packages, will be sold at lower prices than ever before offered in this market. Similar assertions are too often written and disbelieved, bnt we are ready at our post of business to prove it.

The general miscellaneous stock in keeping with our line of business, is also carefully looked after, as well as the modern novelties, constantly added to please fastidious tastes.
T. N. HIBBEN \& CO.

## J. P. DAVIES \& CO.,

AUCTIONEERS AND COMMISSION MERCHANTS.

Wharf Street, Victoria.

## LIBERAL ADVANCES MADE ON CONSIGNMENTS.

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Telophone Call INO. ©.
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One loose joint, a slack screw, a faulty connection, a defective earth wire or an inapt and apprehensive operator, are sufficient, individually, to create in the inexperienced, a feeling of doubt akin to scepticism. Inasmuch, however, as the capabilities of the telephone and its auxiliaries are no longer on trial, a failure in the line to communicate satisfactorily, should be made known to the proper anthorities, who, observing the effect, will be able fully to determine the cause.

## PTBTVAPT LIETE

In addition to the lines of the central office system (which includce the Water Works, at Beaver Lake, H.M. Naval Yard, Esquimalt, Hudson Bay Co., Esquimalt, and he Dry Dock), there are private lines in operation under license from the company, viz.:-

Yale, 26 instruments; Metlekathlah, 2 instruments
Victoria 2 " New Westminster 4 " And comection with the Naval Hospital is anticipated.

## THE ELECTRIC THERMOMETER.

Used in connection with an anumetiator or a separate bell. The thermometor being set at a certain degree rises the moment the temperature in the room or compartment is raised, and thereby the mercury coming in contact with the wire above, closes the electric circuit and causes an alarm to be sounded before the fire has gained any considerable headway. A powerful gong may be placed outside to notify police or watchmen.

No warehouse, hote', factory, vessel or steamer should be without this safeguard. It is invaluable as a protection against the over-heating of goods when closely stored either on land or at sea.

# WELCH，RITHET\＆CO．， COMMISSION MERCHANTS， SHIP AND INSURANCE AGEN＇TS． <br> AGENTS FOR 

Imperial Insurance Company．
Maritime Marine Insurance Company． Reliance Marine Insurance Conpany． New Zealand Marine Iusurance Company．

PACHEIC COSTET ATERISSHKP CUWPAVY．
（Carrying H．M．Malls．）
Moodyville Saw Mill Co．，Limited，Barrard Inlet．

Advances made on consignments of produce to our friends in England， Anstralia，China．South America，Canada and United States．

Indents for merchandise executed on favorable terms．
Telephone Calls：Office，No． 4.
Wharf，No． 13.
Residence，No． 24.

## C．Strouss \＆Co．，

エMルエOFRTEES \＆DEA工ERS INT

## General MLerchandise．

COMmercial row，wharf street，victoria，b．c．，ano
no． 70 QUEEN 8TREET，ChEAPSIOE，LONDON．

KEEP CONSTANTLY ON HAND

 SHIPMENTS RECEIVED BY EVERY STEAMER．

Telephone Calls：Store，No． 17.
Residence，Nos． $12 \& 76$.

## No. and Location of Offices.

## LIST OF SUBSCRIBERS.

Station. Nayr. Locaton.
1 Police Station, Bastion street.
2 Van Volkenburgh \& Co., cor. Yates \& Government sts.
3 Marvin, Edgar, cor. Bastion and Wharf streets.
4 Welch, Rithet \& Co., Wharf, St., bet. Bastion \& Fort.
5 Earle, Thomas, Wharf St., North end.
6 Davies, J. P. \& Co., Wharf st, bet. Yates and Bastion.
7 Green, A. A., res. Bird-cage Walk.
8 Baker, E. C., res. Laurel Point.
9 ATTORNEY-GENERAL'S office, Govt. Buildings.
11 (jolonist Ed. Rooms, Gov. St., bet. Yates \& Bastion.
12 Cameron Charles, opp. Sou end Bird-cage Walk.
13 Central Coal Yard \& Wharf, Wharf St., foot Johnson.
14 Occidental Hotel, Wharf St., near Johnson.
15 Marviu, E. B., Wharf St., bet. Yates and Bastion.
16 McMicking, R. B., Pandora street.
17 Strouss, C. \& Co., Wharf St., bet. Bastion and Fort.
18 Clark, W. R., Yates St., bet. Wharf and Langley.
19 Davie \& Pooley, Langley St., bet. Yates and Bastion.
21 EsQUIMALT OFFICE, Esquimalt Town.
$21 \frac{1}{2}$ Graving Dock, Esquimalt, Constance Cove.
$21^{3}$ Miller, Joseph, Esquimalt Town.
22 Hibben, 'T. N. © Co., Government St., opp. Bastion.
23 Holmes \& Dudgeon, Fort St., bet. Doug. \& Blanchard.
24 Rithet, R. P., res. Humboldt street.
25 Snyward, W. P., Rock Bay.
26 GOVERNMENT HOUSE, Carey Castle.
27 H. J. Hartnell, Yates street, east of Cook.
28 Stunders, Henry, Johnson St., cor. Orienîal alley.
29 Driard House, View St., bet. Douglas and Broad.

31 Spratt, Joseph, Store St., Albion Irou Works.
32 Goodacre \& Dooley, cor. Government and Johnson sts.
33 Clarke, W. R., res. Quadra St., corner Chatham.
34 Goodacre, L., res. Pandora St., bet. Blanch. \& Amelia.
35 Bank of British Colambia, cor. Govt, and Bastion sts.
36 Drake \& Jacksou, cor. Bustion and Langley sts.
37 Baker, E. C., office cor. Langley and Yates streets.
38 Langley \& Co., Yates st., bet. Langley and Wharf.
39 Starr, L. M., cor. Menzies street, James Bay.
41 MuQuade, P: \& Sons, Wharf st., bet. Yates \& Bustion.
42 McQuade, P., res. cor. Douglas and Humboldt sts.
43 SUPREME COURT, Government Buildings.
44 Higgins, D. W., res., Pandora st., bet. Blanch. \& Quad.
45 Pollard William, Langley st., bet. Yates and Bastion.
46 Hayward, C., cor Langley and Kane streets.
47 Hudson Bay Co., Wharf street, opp. Bastion.
48 Hayward C., res. Vancouver street.
49 Davie, Theo., cor. Laugley and Fort streets.
51 Neufelder, E. U., res. Fort st., bet. Vancouver \& Cook.
52 Noufelder \& Ross, Govt. st., bet. Yates and Johnson.
53 McQuade, L.G., res. Humboldt st., bet. Govt. \& Doug.
54 Nicholson, Thomas, cor. Johnson and Douglas sts.
55 Heisterman \& Co., Langley st., bet. Yates and Bastion.
56 Shotbolt Thomas, Johmson st., bet. Govt. and Wharf.
57 Fellows \& Prior, Govt., bet. Yates and Johnson.
58 Prior, E. G., res. Church Hill.
59 Matthews, Richards \& Tye, Yates st., bet. Gov . and Whf.
61 Wilson, H. C., Govt. street, bet. Fort and Kane.
62 REGISTRAR-GENERAL'S office, Govt. Buildings.
63 Griffiths, J. W., res. Pandora street.
64 Clements, Wm., res. Pandora street.
65 Johnson, Edwin, res. James Bay.
66 Johnson, Edwin, cor. Government and Bastion sts.
67 Goodhue, J. P., res. Govt. st., North of Rock Bay.
68 Heisterman, H. F., res. Douglas street.
69 Heathorn, Wm., res. Rock Bay Tanuery.
70 Heathorn, Wm., Govt. street, bet. Yates and Bastion.

71 H．M．NAVAL YARD，Esquimalt．
72 Adams，Mrs．M．，Donglas st．，bet．Yates and View．
73 Marvin，Edgar，res．McClure street．
74 Johnson，E．M．，Bastion st．，bet．Gov．and Langley．
75 CITY HALL，cor．Douglas and Pandora sts．
76 Anderson，J．R．，res．James Bay．
77 Warren，J．D．，res．James Buy．
78 Earle，Thomas，res．Fort sitreet
79 Nesbitt \＆Co．，cor．Yates and Broad streets．
80 White House，Government st．，bet．Yates and Fort．
81 Mrs．Nesbitt，res．Erin Hall，Fort street．
82 Heywood，Joseph，residence Fort street．
83 Thompson R B．，dentist，Government street．
84 Shears \＆Partridge，London House，Government st．
85 Morison，George，druggist，Government street．
86 Langley Mrs．，cor．Broughton and Langley sts．
87 Bowman，W．G．，livery stables，Broad street．
88 Ofner，A．，grocer，Government street．
89 Ofner，A ，residence Pandora street．
91 Hudson Bay Company，Esquimalt．
912 Leech，P J．，Esquimalt．
92 Pollard William，Burnside road．
93 CITY WATER WORKS，Beaver Lake
94 Fell \＆Co．，Fort street．
95 Union Hook and Ladder Fire Hall．
96 Deluge Fire Hall．
97 Tiger Fire Hall．
98
99
100
101
102
103
（For signalling purposes the city is divided into four Districts，When an interruption occurs to the signal wire of any of these，all offices in that district are＂cut off，＂i．e．．prevented from caling until the obstruction is removed，but during the time the Central Office is able to call the offices on said district，and conversation can be carried on as usual．）

## ENCOURAGE HOME INDUSTRY.



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# The ELECTRIC LIGHT! 

We are perfecting Arrangements and will soon be prepared to furnish

# Electric Light Machines, Lamps, Regulators, Etc. 

Of the latest and most approved Styles of European and American Manufacture.

The electric light, on account of its great brilliancy and penetration, is likely soon to supercede all other methods for lighting up large areas.


#### Abstract

(Extract.) -" Within a short time past, a very exteuded application of electricity to illumiuating purposes has been made, both on this continent and abroad, and just now public interest in this matter is very much excited It was a long time after the discovery that the electric current was capable of producing a brilliant light, 'ere the thought was seriously entertained of putting this agency to practical use as a light-producing power. But the introduction of magueto-electric machines gave a solution of the great problem, and to-day this application of electricity is much more clearly defined. Whether the iurther introduction of electricity for domestic purposes of lighting will realize the expectations of many who are at present studying the subject, remains yet to be seen. The economical side of the problem is still a debatable subject, and one also of very general interest; so that it is not at all surprising, eonsidering what has already been accomplished, that the public gives ensy credence to many extravacint statements made with regard to it. "How much ground there may be for the anticipations of success which are so sanguinely indulged in by friends and promoters of the new light, it would be difficult to say."


A great deal has been written of late about the substitution of the electric light for gas, and from the remarks we frequently hear on this subject it would appear that no small portion of the popular mind inclines to the belief that the realization of this event on an extended scale is not far distant. It should, however, be remembered that the great adrontage of the electric light, so far at least as economy is concerned, can be obtained in the highest degree conly where a large muntity of light is wanted, and that the circumstances

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Telephone Calls: Store, No. 3.
Residence, No. 73.
under which the light is to be used has a molifying influence in regard to its application. A place already provided with power, or in such a position as to receive it without necessitating extra provisions for the pup pose, would of course be served more economically than tuother requiring the special introduction of machinery and the employment of help to look after it. As the amount of light required decreases, the economy also becomes very much less marked. Although yet open to question, it is reasonable to believe that the time will come when doubt as to the econony of lighting by slectricity will be wholly dispelled; when the element will be under such control as to enable its use freely, and in suitable force, alike in our dwellings, upou the street, or elsewhere; but this development is more than likely to be gradual. An. eminent electrician computes that: one pound of the gas, when made and burned, yields a ciandle-light for seventr-five hours. One pound of coal, burned in a grood furnace under a good boiler, will furnish sufficient steam to drive a good steam engine, and if a magneto-electric machine, for a sutficient length of time, to furnish an electric light, which in intensity and duration shall be the equivalent of one candlelight for one thonsamd hours. But if all the energy locked up in one pound of carbon could be liberated and converted wholly into light, it wonld be equivalent to that given by one candle during one and a lialf years, if all concentrated in one source. Hence, let experimenters take conrage, and try to fill this chasm between one thonsand hours, and one and a half years!

It may not be generally known that the difficulty is not confined to generating electricity but rather to giving it expression in the form of light not so much in the form of generator as in the form of lamp.

We watch with intense interest the further development of the Jablockoff Candle, such evidently being the true principle through which to give vent to the pent-up illuminating properties of electricity.
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Without therefore sharmg in the belief that the development of the electric light has even approached its zenith of perfection, we are not slow to admit that already some systems under certain circumstances and certain requirements, are capable of giving very general satisfaction.

For such we hope shortly to be in a position to give estimates, and send full descriptions to parties on application.

## FIRE INSURANCE COMPANTES.

The Fire Iusurance Companies have agreed to pay the Telephone Company a fixed sum per annum provided the following services are carried into effect:

1st. Keep the telephone of ce open all night.
2nd. Until such time as the fire bells shall be connected with, and be rung by electric combinations from the central office, under the direction of the fire department, ring said bells by hand on receiving an alarm of fire.

3rd. Generally to assist in every reasonable mamer in lessening losses by fire through the medium of their telephone connections, and by all legitimate means increase the efficiency of the fire department by the ultimate ringing of the bells by electricity.

The following agents have given their consent:
Welch, Rithet \& Co...........Imperial Insurance Company Thos. C.Nuttall . .... .. .. Phœenix
Andrew Rome \& Co........... Commercial Union
H. F. Heisterman \& Co .. .Phenix (Brooklyn)

Stahlschmidt \& Ward....... .Royal "
Findlay, Durham \& Brodie. ...Northern
Turner, Beeton \& Co.. . . . . . . . Guardian

Turner, Beeton \& Co...... . . Hartford Insurance Comp'y. Allsop \& Mason. North Brit. Mercan. A. R. Green per J. C. Bales. . Lancashire

The City Council have also agreed to pay the sum of $\$ 100$ per annum provided "fire signal boxes" are erected at certain places, to be named by the Fire Wardens, at a cost of $\$ 5$ each per annum, and not less than eight in number.

## THE FIRE DEPARTFFENT,

Through their delegates, have also come forward, and are prepared to pay a reasonable sum per annum, provided the company will erect the necessary machinery for ringing the Tiger engine house bell by electricity, and connect each of the engine houses with the central office by telephome. This matter is engaging the attention of the Directors at the present time, and they hope before very long to effect the same.

$1$

# FELLOW'S \& PRIOR, <br> TMCPORTAERE OF <br> Iron, Steel, Hardware AGRICUTURAL DPLLEMATS, AND MAGHINERY. <br> \author{ $\qquad$ 

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