CANADIAN MUNICIPAL JOURNAL

OFFICIAL ORGAN UNION OF CANADIAN MUNICIPALITIES

CANADIAN INDEPENDENT TELEPHONE ASSOCIATION.

VOLUME V NUMBER 9 MONTREAL, SEPTEMBER, 1909

YEARLY \$1.00 SINGLE COPIES 10 CENTS

SOME CITIES

Have Exhibitions to advance their Commercial Interests

September 13 to 20

Back Montreal

Home Sweet Home

is a week of pleasure and sport mainly organized to advance the commercial interests of Canada's Greatest City.

BE THERE WITH YOUR FRIENDS

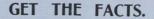
Write: W. C. HAGAR, Room 60 Victoria Chambers

Canadian Independent Telephone Company

TORONTO, CANADA.

CANADIAN INDUSTRY.

We have claimed and now reiterate that we have the only Canadian factory actually manufacturing telephone equipment in the Dominion that is not connected with or controlled by the Bell Telephone Company.



Test carefully all statements made in regard to Canadian Independent Telephones and the facts will guide you right as to Canadian factories.

QUALITY TALKS.

The Canadian Independent Telephone Company have made a reputation for satisfactory service, up-to-date design and good appearance. Scores of companies using other makes have changed to the Canadian Independent Telephone after one practical test.

INFORMATION FREE.

Write us for full information and a copy of our Number 2 Bulletin on rural telephone construction. All information and estimates furnished free of charge by our engineers.

CONSTRUCTION SUPPLIES.

We carry a full stock of all kinds of wire and construction material. Ask for price list.

FULLY GUARANTEED.

All our telephones and switchboards are guaranteed for ten years and you can be sure of material and workmanship being first-class.

PROMPT SHIPMENTS AND GUARANTEED SATISFACTION ARE BUILDING UP OUR BUSINESS.

Canadian Independent Telephone Co., Ltd.

DUNCAN ST.,

TORONTO.

Over 25,000 Lines of Automatic Telephone Equipment Sold in the Last 60 Days.

NEW INSTALLATIONS.

Havana, Cuba.
Helena, Montana.

Boone, Iowa.
Pocatello, Idaho.

Lethbridge, Alta., Canada. Calgary, Alta., Can. (Branch)

ADDITIONS TO EXISTING AUTOMATIC PLANTS.

Los Angeles, California	6,000	lines	Columbus, Ohio	1,000	lines
Butte, Montana	300	"	Portland, Oregon	1,600	"
Decatur, Illinois	500		Lincoln, Nebraska	200	"
Bellingham, Washington	100	"	Akron, Ohio	500	"
Grand Rapids, Michigan	1,000	"	Edmonton, Alta., Canada	500	"
Omaha, Nebraska	800	"	Van Wert, Ohio	100	"
Sioux City, Iowa	1,000	"	Aberdeen, S. D.	100	"
Oakland, California	500	"	Saskatoon, Sask., Canada	100	"

Automatic Electric Company

Van Buren & Morgan Sts.,

Chicago, U.S. A.

Cannot Uncouple and Cause Endless Trouble— Do Their Work Well — Save Money — Last.



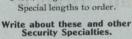
Security Conduit or Sewer Rods.

Easily and quickly jointed and unjointed, but always stay coupled in the duct. No slack between joints, no binding nor buckling against conduit walls. Bellied centers of the stout hickory rods make them stiff,

Bellied centers of the stout hickory rods make them stiff, they slide easily; iron couplings, made for severe use and abuse. So light one man can readily handle long

Three and four feet lengths.

3 feet, weight 14 oz., \$0.55 4 feet, weight 1 lb. 3 oz. .65





THE F. BISSELL COMPANY.
TOLEDO, Ohio.

1734 Cents

in barrel lots of 125



In the new type of X Cell "MODEL 1910" we have increased the efficiency 18 per cent and have improved the appearance greatly.

We guarantee the new type to be better than ANY other battery on the continent.

Ask for the X Cell with the **RED TOP** and the Black Cat.

EGUO THIRTY STI

ELECTRICAL SPECIALTIES LTD.,

12-14-16 Shuter Street, - TORONTO.

GOODYEAR ELECTRIC CO.

WINNIPEG, Man.

Electrical Supplies,
Telephones

Telephone Construction Supplies.

AGENTS FOR

Kellogg Switchboard & Supply Co.

DISTRIBUTORS OF

Nungesser Electric Battery Co's

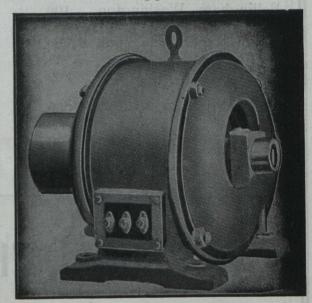
FAMOUS

"1900" and 16 Acme Dry Batteries.

GARRIOCH, GODDARD & CO.

11 Elgin \$t., Ottawa, Ont.

Motors, Generators and Electrical
Supplies



Municipal and Rural Telephones



CONSTRUCTION - EQUIPMENT

Write for information and prices

STROMBERG - CARLSON

INDEPENDENT TELEPHONE EXHIBIT

TO BE HELD AT THE

Canadian National Exhibition PROCESS BUILDING



Our 1908 Telephone Exhibit - Bronze Medal Award.

This year our popular telephone exhibit will be conducted in the same entertaining manner as before, with many new features added. Principal attention will be given to our display of Magneto Telephones and Switchboard Equipment for Rural Line Exchange Systems. Come prepared to investigate "Quality Apparatus" in many styles for all kinds of telephone systems.

STROMBERG-CARLSON TELMIG.

Ontario Sales Agent

GEO. J. BEATTIE, Esq., No. 109 Victoria St., TORONTO





THE FINEST CEDAR POLES PRODUCED

COMPLETE STOCKS & PROMPT SHIPMENTS

THE VALENTINE-CLARK GO.

MICHLGAN AND WESTERN CEDAR POLES



PARTRIDGE-DYER LUMBER CO.

Dealers in White Cedar Products.

POSTS, POLES, PILING.

WRITE FOR PRICES

BEAUDETTE,

Minneapolis.

POLES

This space will sell your stock.

This is the official paper of the "Independents".

The James Stuart Electric Co., Ltd.
324 Smith St., Winnipeg.

WHOLESALERS OF-

Arc-Lamps, Pole Line Supplies, Switchboard Material, Telephones.

We solicit your enquiries.

On behalf of the ratepayers of the district you represent

We know you wish to give the taxpayers who have elected you the greatest value possible for their money and economy consistent with quality.

WE ARE BUILDING A REPUTATION ON

High Quality, Perfect Manufacture, Prompt Service & Low Prices

DEAR SIRS:—I have much pleasure in informing you that the bridge lumber which we got from you passed the Government Engineer's Inspection and it is in his report to us as Al material. We are highly pleased with the price and all is satisfactory. I remain, yours,

JOSEPH CHRISTIE, Councillor, Ward 4, Carman, Man.

LUMBER

POLES



LUMBER

PILING

If you do not require a carload, club in with the adjoining district, tributary to your station.

Write for delivered price list and catalogue of building material.

AKE LUMBER CO., LTD.

WIN

WINNIPEG, Man.

VICTOR VICTOR



HOWING four "Victor" Suspension Insulator Units under severe rain test at 205, 000 volts; also a 65-ft. steel tower equipped for 100,000-volt operation. This is part of an experimental tower line at Victor, 800-ft. span, running up to 350,000 volts.

"Victor" insulators are good and they are safe.

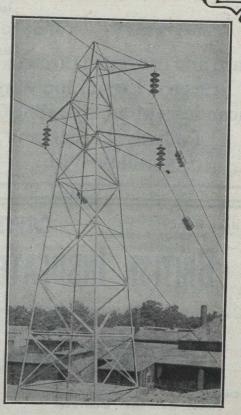
The Locke Insulator Mfg. Co.

Victor, N.Y., U.S.A.

Montreal Office:

The Engineering Equipment & Supply Co.,

13 St. John Street



TELEPHONE MEN:

We know of no better way of emphasizing the long service — qualities in our apparatus than referring prospective purchasers to Kellogg telephones and switchboards giving splendid service two, five, eight and more years after they have been installed.

We are proud of the fact that our customers are our best advertisement.

While all of our readers cannot make actual inspection of operating Kellogg exchanges, we can show on these pages why our telephones have superior service records, by illustrating how they are built from the beginning where the rough lumber is unloaded at our complete woodworking plant until the telephones are connected to the line in the working exchange system.

We do not buy the boxes or cabinets or receivers or generators; we make them all—from the start to finish, and that we make them right is evidenced by the way Kellogg apparatus serves—in the severe daily-monthly—yearly operation in every class and size of exchange. In succeeding issues we will show views of our telephone and switchboard woodworking processes—the careful steps that combine to make the apparatus that the name Kellogg stamp as the independent standard throughout the world.

KELLOGG SWITCHBOARD & SUPPLY COMPANY

Canadian Office: Winnipeg, Canada.

Manufacturers of Standard Telephones and Switchboards.

Eugene F. Phillips Electrical Works,

MONTREAL, - - TORONTO,

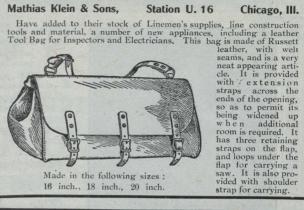
Bare and Insulated Electric Wire. Electric Light Line Wire, Incandescent and Flexible Cords. Railway Feeder and Trolley Wire

New Tools for Line Construction Work

Mathias Klein & Sons,

Station U. 16

Chicago, III.



HEAD OFFICE : PRESCOT, ENGLAND CAPITAL \$7,300,000.00.

WORKS: PRESCOT, HELSBY AND LIVERPOOL, ENGLAND

Contractors to H. M. Government, War Office and Admiralty, also to the Principal Corporations in the British Isles and Abroad for Electric Traction, Power, Lighting, Telephone and Telegraph Equipments.

AGENTS FOR CANADA

CABLEGRAMS, "INSULATOR" PHONE, MAIN 1521, MONTREAL MONTREAL, Que.

ALPHABETICAL INDEX OF ADVERTISERS

	PAGE
Alberta Metal Culvert Co., Ltd	421
	408
THIN WIDE IT WILL COME OF CHILL, IT CO.	412
American Bank Note Co	385
	392
Babcock & Wilcox Ltd	415
Bank of Toronto	413
Bayfield & Archibald	422
Beaubien, De Gaspé	422
Bissell Co., F	386
Blackburn Specialty Co	414
Brandeis, Charles	422
Brent, Wm. C	415
British Insulated & Helsby Cables, Ltd	390
Brown & Co., A. G	418
Brown, W. M	422
Buffalo Meter Co	415
Calgary Iron Works	410
Canadian Bridge Co., Ltd	424
Canadian British Insulated Co., Ltd	3.90
Canadian Independent Telephone Co., Ltd. Cover, page.	2
Canadian Iron Corporation	424
Canadian Machine Telephone Co., Ltd	392
Canadian Ornamental Iron Co	408
Canadian Road Machine Co	414
Carswell Co., The	409
Carritte-Paterson Manufacturing Co., Ltd	407
Chipman, Willis	423
City & District Saving Bank	415
Clemens, Paul M	422
Clement, E. E	423
Climax Road Machine Co	4
Cousins, C. C	414
Cousins, C. C	419
Dous, F. I	412
Dominion Bridge Co., Ltd Cover, page	4
Dominion Equipt. & Supply Co	418
Dominion Securities Corporation, Ltd.	412
Dominion Sewer Pipe Co., Ltd	424
Dominion Telephone Mfg. Co	403
Duckworth, Walter B.	423
Electrical Specialties, Ltd	386
Empire Light Co	421
Francis, Walter J	423
Fuce, Edw. O	409
Galt & Smith	422
Gamble & Gladwell	408
Garrioch, Goddard & Co	386
Garishore-Thomson Pine & Foundry Co Itd	424
Goodyear Electric Co	386
Hardy Patent Pick Co	392
Holman, Hugh G	423
Imperial Bank of Canada	413

ŀ	Tophage B r	PAGT
ı	JUDIISON R. J.	
E	Keefer & Keefer Kellogg-Switchboard & Supply Co.	428
	Kellogg-Switchhoard & Supply Co	422
	Kelsch, R. S.	389
	Klein & Sons Mathias	428
7	Klein & Sons, Mathias	390
		423
8	Lake Lumber Co.	388
	Laurie & Lamb Lea, R. S. & H. S. Ferguson Leofred, A.	422
	Lea, R. S. & H. S. Ferguson	
	Leofred, A	414
	Leofred, A. Lighthall & Hardwood Locke Insulator Mfg. Co. London Concrete Machinery Co. Cover, page	415
	Locke Insulator Mfg. Co	11.
	London Concrete Machinery Co Cover, page	421
	MacGregor, J. Grant	
	MacGregor, J. Grant	423
	Martin, Harry K. McLaren Belting Co., J. C. McMeen & Miller McCulloch A L	418
	McMeen & Miller	4
	McCulloph A T	423
	McCulloch, A. L.	422
	Merchants Bank of Canada Modern Printing Co. Morrison & Co., T. A. Morssen & Co.	415
	Modern Printing Co	420
	Morrison & Co., T. A	409
	Morssen & Co	422
	Morssen & Co. Municipal Construction Co., Ltd. Mussens, Ltd. Northwestern Electric Co. Partridge Dyer Lumber Co.	421
	Mussens, Ltd.	
	Northwestern Electric Co	3
	Partridge Dyer Lumber Co. Paterson Manufacturing Co., Ltd.	418
	Paterson Manufacturing Co. T.13	388
	Pedlar People	407
	Phillips Electrical Works Eugene E Cover, page	4
	Pedlar People	390
	Potter, Alexander Public Works Purph Herbert P	423
	Duck Harban B.	410
		414
	Reakes, G. Richardson & Bishop, Ltd. Robertson 144 J. M.	423
	Richardson & Bishop, Ltd	420
		423
	Troman Stone Co., Lita.	409
		415
	Ross & Holgate	422
	Ross & Holgate Skinner, Ltd. W. E. Smith Korw, & Check	
	Smith, Kerry & Chace	422
	Smith, Kerry & Chace St. George, Percival W. Standard Engraving Co., Lt1.	422
	Standard Engraving Co. I td	422
	Steiner Dunlen & Co., Ett	420
		412
		423
		387
	Stuart Elec. Co., The James Todd, Frederick G. Tracy, Those A.	388
	Todd, Frederick G	418
		422
		388
	Walsh, C. B. Warmington, J. N. Waterous Engine Works Co., Ltd. Watts & Son E. B.	409
	Warmington, J. N.	
	Waterous Engine Works Co Ltd	419
	Watts & Son, E. R	392
		409
		422
	Winnipeg Investment Co	418
	Wood, Gundy & Co. Zabel, Max. W.	412
	Zabel, Max. W	400

BUYERS' DIRECTORY

ACCOUNTANTS.

Gamble & Gladwell. Ross, H. J.

ARCHITECTS.

Clemens, Paul M. Holman, H. H. Pugh, H. B.

ARTIFICIAL STONE

Roman Stone Co. Morrison Co., T. A.

AUTOMATIC TELEPHONES.

Automatic Electric Co.

BARRISTERS.

Lighthall & Harwood. Lapointe & Stein.

BATTERIES, DRY.

Electrical Specialties, Ltd. Goodyear Elec. Co.

BELTING.

McLaren Belting Co., J. C

Babcock & Wilcox. Waterous Engine Works Co

BONDS, ETC.

Bank of Montreal. Bank of Toronto. Brent, Wm. C. City & District City Savings Bank. Dods, F. P. Dominion Securities Corp. Ltd. Dyke, Joshua. Imperial Bank. Merchants Bank. Ross, H. J. Rutledge, E. S. Steiner, Dunlop & Co. Wood, Gundy & Co. Winnipeg Investment Co.

BRIDGES.

Canadian Bridge Co. Dominion Bridge Co.

CABLES.

Can. British Insulated Co. Can. Indep. Telephone Co. Dom. Tel. Mfg. Co. Philips Elec. Works.

CAST IRON PIPES.

Can. Iron Corporation. Gartshore-Thomson Pipe & GROUND CLAMPS. Foundry Co.

CONCRETE STEEL DAMS.

Ambursen Hydraulic Const. Co.

CONCRETE MIXERS.

London Concrete Machy. Co. Mussens, Limited.

CONTRACTORS.

Municipal Construction Co.

CULVERTS.

Alta. Metal Culvert Co. Pedlar People. Gartshore-Thomson Pipe & Fdy. Co.

DUST PRESERVATIVE.

Barrett Mfg. Co.

ELECTRIC MOTORS.

Garrioch, Goddard & Co.

ELECTRIC WIRE.

James.

Can. British Insulated Co. Canadian Indep. Teleph. Co. Canadian Machine Teleph. Philips Electric Works, E.F. Stuart Electric Co., the

ENGINEERS & CONTRACTORS.

Bayfield & Archibald. Beaubien, De Gaspé. Brandeis, Charles. Can. British Insulated Co. Brown, W. M.
Chapman, Willis.
Clemens, P. M.
Duckworth, Walter R.
Fuce, Edw. O.
Francis, Walter I. Francis, Walter J. Galt and Smith. Goddard, C. Jephson, J. H. Keefer & Keefer. Kelsch, R. S. Laurie & Lamb. R. S. Lea and H. S. Fer guson. Leofred, A. Morssen & Co. McCulloch, A. L. Potter, Alex. Ross & Holgate. Skinner Ltd., W. E.
Smith, Kerry & Chace.
St. George, P. W.
Thomas, J. Lewis.
Tracy, Thos. A.
Williamson, J. W.

ENGINEERS, TELEPHONE.

Clement, Edw. E. Land, Edmund. McMeen & Miller. Reakes, Geo. Stone & Green. Zabel, Max. V/.

ENGRAVERS.

Amer. Bank Note Co. Standard Engraving Co.

FIRE DEPT. SUPPLIES.

Martin, Harry K.

FIRE ENGINES.

Waterous Engine Works Co

FIRE EXTINGUISHERS.

Martin, Harry K.

Blackburn Specialty Co.

ILLUSTRATIONS.

Co., Standard Engraving Titd.

INSTRUMENTS.

Watts & Son, E. R.

INSULATORS.

Locke Insulator Mfg. Co. Engr. Equipment & Supply Co.

INSURANCE.

Dyke, Joshua. Rutledge, E. S.

LADDERS, FIREMEN'S.

Martin, Harry K.

LANDSCAPE ARCHITECTS.

Todd, Frederic G.

LAW BOOKS.

Carswell Co., The.

LEATHER BELTING.

McLaren Belting Co., J. C. LIGHTING.

Empire Light Co. Stuart Elec. Co., the Jas.

LITHOGRAPHERS.

Amer. Bank Note Co. Standard Engraving Co.

LUMBER.

Bissell Co., the F. Lake Lumber Co. Partridge-Dyer L. Co. Valentine-Clark Co.

MECHANICAL ENGINEERS

Williamson, J. W.

METAL CULVERTS.

Alberta Metal Culvert Co. Pedlar People, The.

METERS, WATER.

Buffalo Meter Co.

MUNICIPAL FORMS.

Modern Printing Co. Richardson & Bishop. Standard Engraving Ltd.

NUMBERS.

Davidson Mfg. Co., Thos. Warmington, J. N.

ORNAMENTAL IRON.

Can. Ornamental Iron Co.

PATENTS.

Clement, Edw. E. Cousins, C. C. Zabel, Max. W.

PICKS.

Hardy Patent Pick Co.

PIPE, IRON.

Calgary Iron Works. Can. Iron Corporation.
Gartshore-Thomson Pipe & Foundry Co.

Bissell Co., the F. Lake Lumber Co. Partridge-Dyer Lumber Co. Valentine-Clark Co.

POLICE SUPPLIES.

Martin, Harry K.

PUBLIC ACCOUNTANT.

Ross, H. J.

PRINTERS.

Modern Printing Co. Richardson & Bishop.

PUBLISHERS.

Carswell Co., The.

RAILINGS.

Can. Ornamental Iron Co.

ROAD MACHINERY.

Canadian Road Machine Co. Climax Road Machine Co. Dom. Equip. & S. Co. Morrison, T. A. & Co. Mussens, Limited. Waterous Engine Works Co.

REAL ESTATE.

Dyke, Joshua. Rutledge, E. S.

ROAD ROLLERS.

Can. Road Machine Co. Climax Road Machine Co. Morrison, T. A. & Co. Mussens, Limited. Waterous Engine Works Co.

ROAD PRESERVATIVE.

Barrett Mfg. Co.

SEWER PIPE.

Dominion Sewer Pipe Co. Morrison, T. A. & Co.

SEWER PIPE MOULDS.

Can. Road Machy. Co. Climax Road M. Co. London Concrete Machy. Co.

STAIRCASES.

Can. Ornamental Iron Co.

STEAM ENGINES.

Babcock & Wilcox, Ltd. Waterous Engine Works.

STEAM FIRE ENGINES.

Morrison, T. A. & Co. Waterous Engine Works Co.

STONE. Roman Stone Co.

STREET NAMES.

Davidson Mfg. Co., Thos. Warmington, J. N.

STREET SPRINKLERS.

Heaman, George. Mussens, Limited.

SUPPLIES & MACHINERY.

Brown & Co., A. G. Klein & Son, Mathias. Morrison, T. A. & Co. Mussens, Limited. Waterous Engine Works Co.

TELEPHONES.

Automatic Electric Co. Bissell Elec. Co., the F. Can. British Insulated Co. Canadian Indep. Teleph. Co. Canadian Insulated Co. Canadian Machine Teleph. Co. Dominion Telephone Mfg.Co. Garrioch, Godard & Co. Goodyear, Chas. Kellogg S. & Supply Co. McMeen & Miller. Northwestern Electric Co. Stone & Green. Stromberg-Carlson Tel. Mfg. Co.

Stuart James. TOOLS

Hardy Patent Pick Co. Klein & Sons, Mathias.

TYPEWRITERS & SUPPLIES Walsh, C. B.

Electric Co., the

WATER WORKS SUPPLIES.

Calgary Iron Works. Buffalo Meter Co. Can. Iron Corporation. Gartshore-Thomson Foundry Co. Mun. Construction Co. Mussens, Limited.

WIRE, ELECTRIC.

Can. British Insulated Co., Phillips Electric Works, E.F.

WOOD STAVE PIPE.

Mun. Construction Co.

"CANADIAN MACHINE TELEPHONES EXCEL.

"Central Energy Automatic Telephony" and "Automatic Selection of the First Idle Connector" enables the Lorimer Automatic Telephone System to lead all others.

"Complete units of an exchange accommodating 100 subscribers or more if need be, without in any way "disturbing the normal workings of the exchange. In addition to the enormous saving here foreshadowed in favor " of the Machine exchange, you have an absolutely secret service. One that may be depended upon at any hour of "the day or night, a system where non-interference is absolute, a system so marvellously ingenious and at the same

"time so easy of manipulation, that a child may operate it with certainty as to results."

ORMOND HIGMAN,

"Chief Electrical Engineer, Dominion Government."

Full information free.

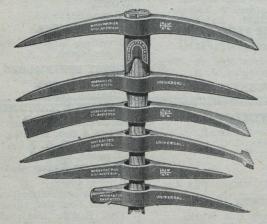
CANADIAN MACHINE 26 Duncan Street,

TELEPHONE COMPANY, LIMITED. TORONTO, Canada.

High Class Tools

For Contractors.

Try our World Famed "Universal" Picks



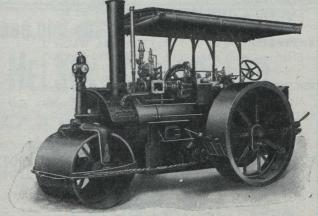
The Hardy Patent Pick Co., Limited. SHEFFIELD, ENGLAND.

STOCK KEPT BY

MUSSENS LIMITED

299 St. James St.,

MONTREAL.



STEAM ROAD ROLLERS

10, 12 and 15 Ton In Three Sizes

We also Manufacture :

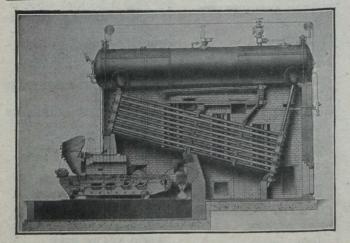
Rock Crushers, Screens, Saw Mill and Pulp Machinery, Chain Belting, &c.

ENGINES—Stationary—
McEwen High Speed Automatic in Simple and
Compound Units.

BOILERS OF ALL TYPES.

Selling agents: H. Cameron & Co., Toronto.
Western Branch — Winnipeg, Man.
B. C. Agency — H. B. Gilmour, Vancouver, B. C.

The Waterous Engine Works Co., Limited BRANTFORD, CANADA



Babcock & Wilcox Patent Water Tube Boiler Superheater and Mechanical Stoker.

Babcock & Wilcox, Ltd.

WATER-TUBE BOILERS

Highest Economy, Absolutely Safe up to the Highest Pressures.

OVER 7,000,000 H. P. IN USE

Our book "Steam" sent on request.

Head Office for Canada

New York Life Building, MONTREAL

Branch Office: TRADERS' BANK BUILDING, - TORONTO

THE

CANADIAN MUNICIPAL JOURNAL

AND

TELEPHONE AND BUILDING NEWS

VOL. V

MONTREAL, SEPTEMBER, 1909.

No. IX.

(Entered according to Act of the Parliament of Canada, in the year 1909, by the CANADIAN MUNICIPAL JOURNAL COMPANY, LTD, at the Department of Agriculture).

OFFICIAL ORGAN

Union of Canadian Municipalities.

Provincial Unions of

Manitoba, British Columbia, Alberta, Saskatchewan Nova Scotia and New Brunswick.

Canadian Independent Telephone Association.

CHIEF CONSTABLES ASSOCIATION OF CANADA.

Although the Canadian Municipal Journal is the Official Organ of the Union of Canadian Municipalities, the Unions of Manitoba, British Columbia, Alberta, Saskatchewan, Nova Scotia, and New Brunswick Municipalities; of the Chief Constables' Association of Canada, and the Canadian Independent Telephone Association, these are not responsible for any other matter published in it than what in each article or item itself is stated to be authorized by either of these bodies.

what in each article of item accounts bodies.

Letters are invited on all subjects relative to municipal matters, and those of a critical nature will be welcomed and given a place so long as they are proper and free from personalities.

PUBLISHED MONTHLY

BY THE

Canadian Municipal Journal Co., Limited.

G. S. Wilson, Pres. and Mang. Director H. Bragg, Vice-Pres. and Mang. Editor. H. Wisely Bragg, Secretary. ROYAL TRUST BUILDING, MONTREAL.

107 St. James Street
Telephone Main 4362—Cable address "Wilbrag"
Western Office: 181 Bannatyne Ave, Winnipeg.

SUBSCRIPTION RATES

Dominion of Canada and Newfoundland	\$1.00
United States	
Great Britain and Countries in Postal	Union4s. 60

NOTICE TO ADVERTISERS

Change of copy should reach this office on 18th of month preceding date of issue, 16th if proof is wanted.

Copyrighted, 1909, by Canadian Municipal Journal Co., Ltd.

MONTREAL, SEPTEMBER, 1909.

CONTENTS PAGE EDMONTON'S AUTOMATIC TELEPHONE SYS-TEM 404 W. E. Baker, Edmonton, Alta. CHIEF CONSTABLES' ASSOCIATION 395 Official Report. GAMBLING-RACE TRACK and STOCK MARKET. 399 Chief Inspector Archibald, Toronto. Bond Sales 413 408 Equipment and Engineering 416 Financial News 412 407

Nonsense

A "great explorer" (?) lately left New York to see if he could find "Wood Bisons" in the far Canadian North West.—incidentally, he will write articles for a select few of the U. S. magazines.

He succeeded in getting quite a good amount of free advertising in some of the Canadian dailies on the strength of his courage and enterprize in setting out on such a long and dangerous trip in search of these mysterious animals.

As a matter of fact, most of the stuff said about him

was pure bluff.

The herd of wood bison or buffalo, is not only actually known, but is protected by the Canadian Government, and the intrepid explorer can travel all the way in a very easy way, taking a pullman car for the largest part of the way, then go by steamer for some distance, and then hire a team and a guide and drive the rest of the journey.

Of course this sounds too prosaic to be good advertising, for the explorer, and the magazines for which he is to write have "faked" up this talk about the privations,

dangers and uncertainty of his trip.

Some of the officers on one of the river steamer have just played a good joke on the green explorer. They put a stuffed bear up on the bank where they had anchored, and roused Mr. Explorer to give him a chance of killing a bear. He got out and shot the bear, taking due precautions that the bear should not see and attack him. The bear did not move, so he crept nearer and fired again. Feeling sure that his arm had been true, he cautiously approached what he believed to be his dying foe, fully prepared to give it the coup de grâce if necessary, and then found—it was a stuffed bear skin.

Control of Billboards

The bill in the Ontario Legislature, to permit municipalities to regulate Billboards, which was introduced by Mr. E. E. Fraser, M. P. P., for Welland, has been thrown out. The reason is not, however, because of the purpose aimed at, but because it was felt that so large a question needed more deliberate study before action was taken. Both Premier Whitney and Provincial Secretary Hanna spoke in favor of the measure, but urged further consideration.

Australia's Capital

The Commonwealth of Australia, after long discussions, caused by the rivalry of the large cities, has decided to create an entirely new one. A site has been chosen in a range of hills, some 1,600 feet above the sea and about 100 miles from it. Here will be built a model city, with wide streets, lined with trees, and with streams of water running through many parks. It is estimated that \$25,000,000 will be required to commence the city.

The Union of Canadian Municipalities

Officers and Executive for the year 1909-1910

PRESIDENT:

R. C. COCHRAN, Esq., Reeve of Blanshard, Man.

1ST VICE-PRESIDENT:

W. SANFORD EVANS, Esq.,
Mayor of Winnipeg.

2nd VICE-PRESIDENT:

J. A. CHISHOLM, Esq., K.C. Mayor of Halifax.

W. D. LIGHTHALL, K. C., Ex-Mayor of Westmount.

3rd VICE-PRESIDENT .

J. H. McGHIE, Esq.,
Alderman of Toronto.

QUEBEC

VICE-PRESIDENTS:

1st, L. A. LAPOINTE, ESQ., Alderman of Montreal. 2nd, Sir George Garneau, Mayor of Quebec. 3rd, Dr. Bachand, Mayor of Sherbrooke. 4th, J. B. Deschamps, Esq., Mayor of Uachine. 5th, W. H. Trenholm, Esq., Mayor of Westmount.

1st. J. F. C. Menlove, Esg., Sec.-Treas., Virden. 2nd, J. A. F. Bleau, Esg., Mayor of St. Boniface. 3rd, Dr. S. J. Thompson, Reeve of Assiniboia. 4th, W. McBride, Esg., Ex-Reeve, Portage la Prairie. 5th, John Cardale, Esg. Councillor of Blanshard.

MANITOBA

VICE-PRESIDENTS:

HON. SECRETARY-TREASURER:

SASKATCHEWAN

1st, P. A. McAra, Esq., Ex-Mayor of Regina. 2nd, W. Hopkins, Esq., Mayor of Saskatoon.

PRINCE EDWARD ISLAND

VICE-PRESIDENTS:

1st, B. C. Prowse, Esq., Mayor of Charlottetown. 2nd, James Paton, Esq., Ex-Mayor of Charlottetown.

G. S. WILSON, Asst.-Secretary,

Bureau of Information, 107 St. James St., Montreal

ONTARIO

VICE-PRESIDENTS:

1st, C. Hopewell, Esq., Mayor of Ottawa. 2nd, Thomas Patterson, Esq., Mayor of Galt. 3rd, D. Ferguson, Esq., Alderman of London, 4th, W. H. Kyle, Esq., Mayor of Brockville. 5th, Dr. A. Elliott, of Galt.

BRITISH COLUMBIA

VICE-PRESIDENTS:

1st, J. Macmillan, Esq., Alderman of Vancouver. 2nd, Dr. Lewis Hall, Mayor of Victoria.

NOVA SCOTIA

"THE CANADIAN MUNICIPAL JOURNAL"

VICE-PRESIDENTS:

1st, Thomas Notting, Esq., Mayor of Dartmouth. 2nd, W. A. Richardson, Esq., Mayor of Sydney.

Official Organ:

NEW BRUNSWICK

1st, D. MILNE, Esq., Mayor of Medicine Hat. 2nd, R. R. Jamieson, Esq., Mayor of Calgary.

ALBERTA

VICE-PRESIDENTS:

VICE-PRESIDENTS:

1st. J. W. McCready, Esq., City Clerk of Fredericton. 2nd, T. H. Bullock, Esq., Mayor of St. John.

The Convention

29 Royal Trust Bldg., Montreal.

It was intended to get at least a portion of the Report of the Convention of the U. C. M. at Medicine Hat and Calgary into the current issue, but the extended trip to the cities on the Pacific slope has made the return so late that it is impossible to do so. Therefore the Report will appear in the October issue.

Meantime, it may be said that the Convention was a great success, and that the delegates, in spite of the overwhelming hospitality and kindness of our hosts in both cities, managed to stick to business, and get good discussions on the valuable papers which were presented.

On the important question of Uniform Municipal Accounting, the Special Committee presented a Report which was given in full in our April issue. This was discussed, and it was decided to refer it to the various Provincial Unions, and to take it up, along with their reports, at the next Convention. The feeling in favour of uniformity in municipal accounting was very unanimous and firm, and it was pointed out that even a divergence in actual systems would be overcome by some common basis on which to make uniform reports. The great value to the whole country by reports which would offer a comparison was considered to be a tremendous advantage over the present irregular way of doing

The Eastern delegates came back enthusiastic over the wonderful possibilities of the West, and greatly impressed with the kindliness of their reception.

Queer Taxes

Some enterprizing man has been collecting a list of curious taxes. Among them are:

Germany, by sending out charwomen to clean houses, and charging a small fee, added considerably to the revenue. The Government monopolized tooth powder, and charged an exorbitant rate for it.

Austria, swept every chimney monthly, charging 45 cents, and raised a large sum.

Italy has a tax on lotteries.

France raises revenue on duties collected by stamps, on account, cheques, theatre tickets and posters.

Great Britain also uses stamp duties on cheques, and

on receipts over \$10.00, besides duties on armorial bearings on carriages, plate and even on rings and seals.

Paris has a duty on all food and drink entering the City.

Holland taxes every person who enters an hotel before roon, two cents. Burials out of the district to which the deceased belonged cost double. Boots and shoes were formerly taxed.

In Switzerland, it costs \$25 a year to be exempt from military duty.

Greece tried to tax smokers, but they were too numerous. Then she insisted on every person having a national emblem, which was made and sold by the government.

Opposed to Water Meters

The Halifax Herald has led the people, so far as its influence went, to oppose the modern system of selling water by meters, in fact making people pay for what they get. The experience of places where meters have been adopted has been uniformly in favor of their use. But the Herald aided in a campaign to set aside the contract by which the city bought a quantity of meters. The company which supplied the meters have taken suit, and have won their case, which lets the City in for eight or nine hundred dollars of costs, besides having to pay the bill for the meters. It has recently been shown, by the City Engineer's Report, that while the Herald Company is only paying \$120 a year for water, it is using according to the quantity measured by a meter, no less than \$569 dollars' worth. Naturally the Herald looks upon water meters as very unpleasant and unnecessary inventions. The attitude of some papers on public questions is based on good — but selfish — reasons.

Cheap Gas

The fight of New York City to secure gas at cheap rates has succeeded, as the Supreme Court of the United States has declared that the New York State laws of 1905 and 1906, which fixed the price of gas in New York -City at 80 cents per thousand feet were constitutional. The Consolidated Gas Company is thus beaten, in spite of its pull and wire-pulling, and will have to repay a large amount, for overcharges collected since 1905-6.

Chief Constables' Association of Canada

OFFICERS FOR 1909-10: -

Vice-President: Chief Constable Clark, St. John, N. B.

President: Chief Constable TRUDEL, Quebec.

Hon. Sec.-Treas.: Deputy Chief Stark, Toronto, Ont.

EXECUTIVE COMMITTEE:

Col. SHERWOOD, Ottawa, C. M. G.

Chief Constable WILLIAMS, London, Ont.

Chief Constable Chamberlin, Vancouver, B.C. Chief Constable Kimmins, Niagara Falls, Ont.

Fifth Annual Convention

Niagara Falls, Ont., 28th and 29th July, 1909

The Convention opened at 11 a.m., the President, Chief Constable Roszell, in the Chair. The President called upon His Worship, Mayor Slater, who said:—

Address of Welcome

On behalf of the City of Niagara Falls, Canada, I welcome you to our City. I feel it an honour to address a body of men, who owing to the position they hold, must be highly thought of in the different communities from which they come. You know we feel that there is only one ideal place for holding Conventions, and that place is Niagara Falls, Canada, but we can hardly expect you all to concur in that opinion; however, we will try and treat you so well that you will go away with the idea that if you cannot say it is the only place for Conventions, you can safely say it is a

very good place.

The grandeur of Niagara needs no words of mine, but I may be pardoned if I mention in that connection that we have the most beautiful park in the World, and also that there is now constructed and under construction the most extensive, latest improved power development in existence up to this time. Permission to inspect these plants has been secured and you will be able to form some idea of the extent of the same, and you will be told that when completed, on the Canadian side alone there will be developed about 450,000 H. P., and then this will serve the people for all time. It is a boon to this country that can scarcely be estimated: as a labour saver its magnitude is almost beyond figures; and I am sure, and I want you to particularly notice, that all the water being taken does not in the least mar the grandeur or beauty of Niagara, and when you go to your homes you will be able to tell your fellow citizens that this great out-cry about injuring the beauty is really all moonshine, and only exists in the minds of some super-sensitive aesthetic magazine writers.

The committee wish me to mention that they are under compliment to several gentlemen and corporations for special privileges granted to the members of this Convention and their ladies, namely: — The Toronto Electrical Development Co., The Canadian Niagara Power Co., The Ontario Power Co., The Niagara, St. Catharines and Toronto Railway, Zyback & Co., The Maid of the Mist Co., The Niagara Elevator Co., and the Clifton Incline Co., and I am sure you will ap-

preciate their kind consideration.

In addition to this, I may also mention that you are on historic ground. The whole frontier, from Niagara-on-the-Lake to Buffalo and Fort Erie, was the battle ground between the United States and Great Britain and Canada about one hundred years ago, and one of the most bloody hand-to-hand battles, considering the number engaged, was fought at Drummond Hill, within a mile of this place. I trust you will find time to visit it. You will see monuments erected to the memory of both British and American soldiers, many of whom fell at that time where they now lie buried.

I trust that you will enjoy yourselves, gentlemen, and I put myself at your disposal to give you any information or assistance that lies within my power to make your visit both pleasant and profitable. I thank you for the kind invitation to address your Association, and also for the kindly manner in which you have listened.

President: Mr. Mayor, on behalf of the Chief Constables' Association of Canada, I beg to thank you for the kind words of welcome and to assure you that

it is much appreciated by everyone present.

The Secretary: At this stage I beg to move, seconded by Chief Trudel, of Quebec, the appointment of the following committee to report on applications for membership: — Chiefs Newton, of Belleville; Rideout, of Moneton, and Inspector McClelland, of Toronto. Carried.

President's Address



Chief Constable Roszell, Peterborough, Ont.

Gentlemen:

I bid you welcome to the Fifth Annual Convention of our Association, and in doing so would express the hope that our coming together in this city of historic association and world wide fame may prove pleasurable and interesting to us personally, and profitable to us as an organization.

I desire at the outset to thank you for the honour implied in my election to the highest office in your gift, and while the duties of the position are not onerous, I have undertaken them with a determination to discharge them in such a manner as to reflect credit upon myself, and give you no cause to regret having honoured me

with your confidence.

The necessity for such an organization as this becomes more apparent day by day. The extent to which the Police of the various Cities, Towns and Rural Districts have to rely upon each other for assistance makes it incumbent upon us to come together at intervals in order that we may know each other, and mature plans, and lay down lines along which we may co-operate as units of one vast organization in the interests of the public service.

I am probably voicing the sentiments of a considerable proportion of our membership in expressing regret that more of our old and experienced members do not take a more active and aggressive interest in the affairs of the Association. It is from these battle-scarred veterans of the profession that the younger and less experienced members hope to learn, and we are probably not asking too much when we urge them to give us, through the medium of these Conventions, the benefit of their experiences and ripe judgment in Police matters which we so much need in order that we may the better serve the community in which our respective lots are cast.

The lack of interest in the affairs of the Association by too many of the Police governing bodies of the Dominion is to be deplored. Usually those who exact the highest standard of Police efficiency are the ones who are content that their municipality should enjoy all the benefits resulting from these meetings at the personal expense of their already underpaid official, and in some instances, we have reason to believe, in addition to permitting their Chief or High Constable to pay out of his own pocket the expenses incident to membership and attendance, insist on taking from their already meagre holidays the time spent at the Convention.

As every Municipality in Canada is interested in the efficient and honest administration of the law, Police Boards, Police Committees, and County Councils everywhere should make such financial arrangements as would not only secure to their Chief or High Constable membership in the Association, but also insure his attendance at our Conventions where he would have the opportunity of meeting the leading Police Officers of the Dominion and taking part with them in the discussion of matters pertaining to the administration of the Criminal law, and the general improvement of the Police Service in Canada.

These meetings are intended to be educational in their character, and as the municipalities derive the benefit, it is reasonable and fair that the municipality rather than the individual officer should bear the expense incident to membership and attendance.

The success of the Association is likely to be in proportion to the interest manifested in its work by Police governing bodies throughout the Dominion. An earnest appeal is therefore made for their sympathy and cooperation, without which all efforts at best, no matter how wisely directed, can be only partially successful.

I commend to your best consideration the work before us. Our time is short and many important matters demand our attention. The temptations to indulge in pleasure and amusement will be strong and the opportunities numerous, but we must be careful to do nothing that would afford ground for a suspicion that these meetings are merely pleasure jaunts. Many of us travel long distances at the expense of our governing bodies and we owe it to them, as we owe it to ourselves, that we give every possible moment to the consideration of those questions that will prove of practical value to the municipalities which we have the honour to represent.

Inspector McClellan said the Committee on new members reported the following applicants eligible for membership in the Association. — I would therefore move, seconded by Chief Trudel, that the report be adopted and those named in it admitted to membership, viz.:—

Chief Marchessault, Maisonneuve, Que.

" Langley, J. M., Victoria, B. C. "Thompson, Woodstock, Ont.

" Lancey, A. C., Edmonton, Alta.
" Boyd, Brandon, Man.

"Greene, St. Catharines, Ont.
Johnston, Moose Jaw, Sask.
Gunyou, Sudbury, Ont.

" Reid, Niagara-on-the-Lake, Ont.

" Jones, Welland, Ont.

" Moffatt, Westmount, Que.
Inspector Parkinson, Jas., Dominion Police, Ottawa,
Ont.

High Constable Hobson, Oxford County, Ont.

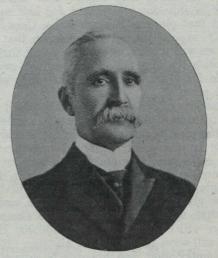
"Hopkins, Elgin County, Ont.

"Hamilton, Carleton, Ont.

—Carried.

The Secretary: As the Minutes of the last meeting appeared in our Official Organ The Canadian Municipal Journal, and in that way reached the Members, I would move they be taken as read; seconded by Inspector Parkinson. — Carried.

Report of the Secretary=Treasurer



Hon. Sec.-Treas. Wm. Stark

To the Officers and Members of the Chief Constables' Association of Canada.

Gentlemen:-

In submitting my fourth Annual Report I have pleasure in noting that the Association is already enjoying the fruits of its labour.

You will be gratified to know that the representatives of your special Committee on legislation, which have always received respectful and attentive consideration at the hands of the Minister of Justice and his staff, have materially assisted in bringing about some very important amendments to the Criminal Code, a synopsis of which may prove instructive.

Carrying Offensive Weapons.

At the Convention, two years ago, we took advanced ground in the matter of carrying offensive weapons, and your Committee subsequently submitted the views of the Association to the Minister of Justice in person and urged very strongly that the penalty for such offence be very materially increased, and that in serious cases imprisonment without the option of a fine or in addition thereto, should be imposed. As a result Sections 123 and 124 have been amended by giving the convicting Magistrate or Judge power to impose imprisonment in addition to, or without, a money penalty. The money penalty as previously, is not less than \$10. and not more

than \$50. and imprisonment may be any term up to three months.

Immoral Literature and Obscene Pictures.

During the interval since our last Convention a particularly aggravated case of having in possession immoral literature and obscene pictures came under the notice of the Authorities, in the prosecution of which serious difficulties were encountered, as no penalty was provided by law for simply having such matter in possession. The case was such an extreme one, and the circumstances in connection therewith so revolting, that prompt action was deemed advisable, particularly as the Dominion Parliament was then in Session. On the recommendation of the Chief Constable of Toronto, with the concurrence of the Board of Police Commissioners who assumed the expenses incident to immediate action, I proceeded to Ottawa as the representative of this Association, and in company with the representative of the Social & Moral Reform Council of Canada, asked for such an Amendment to the law as would make it an offence for any person to have such literature or pictures in his possession. As a result of our representations Section 207 was amended along the lines suggested. Although the Amendment does not go quite as far as we could have wished at the time, it goes far enough to remedy a defect that seriously hampered the authorities in the enforcement of that particular law.

Procuring for Immoral Purposes.

By an Amendment to Section 216 the maximum term of imprisonment for procuring girls for immoral purposes has been increased from two to five years. This proposal, you will remember, was heartily endorsed by this Association, and vigorously urged upon the Government by your Committee some time ago.

Disorderly Houses.

By a new Section (227A) an Opium Joint is defined, and by an Amendment to Section 228 it is made an Offence to keep an Opium Joint, and the keeper thereof may be prosecuted under Section 228 as the keeper of a Disorderly House. A new Section (228A) makes the inmates and frequenters of a disorderly house, as defined by Section 228, liable to prosecution the same as the keeper.

The Courts of Quebec, and the Court of Appeal in Ontario, having held that the general words "disorderly house" did not include common betting or gaming houses, paragraph f. of Section 773 has been amended making it clear that this class of houses is included among those defined as Disorderly Houses in Section 228, and the inmates and frequenters liable under Section 228A.

By the addition of a new Section (642A) the provisions of Sections 641 & 642 authorizing the searching of alleged Gaming Houses and seizures therein now apply to alleged Opium Joints as well. By Section 774 as amended, the right of trial by Jury of persons charged with keeping, or with being inmates or frequenters of disorderly houses, as defined by Section 228 & 228A is denied.

Manslaughter.

Paragraph "E" of Section 583 has been amended so as to exclude Manslaughter from the list of offences coming within the jurisdiction of General Sessions of the Peace, or other inferior Courts.

Search Warrants.

An addition to Section 629 enables a Search Warrant, either in respect of evidence or stolen goods, to be executed outside the jurisdiction of the issuing Magistrate on endorsement by a Magistrate or a J. P. of the jurisdiction in which the search is proposed to be made, in like manner as Warrants of Arrest.

Coroners' Summonses & Warrants.

An effort will probably be made at the next Session of the Ontario Legislature to have a similar provision applied to Coroners' Summonses to Witnesses, and Warrants against Witnesses who disobey such Summonses. This of course would apply only to the Province of Ontario.

Arrest without Warrant.

Section 646 enumerates the crimes for which persons found in the act of committing them may be arrested without Warrant by any person, and by any Peace Officer whether he has witnessed the commission of the crime or not. (See Section 647). Section 41 provides that every Peace Officer proceeding lawfully to arrest, with or without a Warrant, any person for any offence enumerated in any of the paragraphs of Section 646, is justified, if the person takes to flight to avoid arrest, in using such force as may be necessary to prevent his escape, unless such escape can be prevented by reason-

able means in a less violent manner.

A constable in Winnipeg proceeding to arrest a man charged with theft which came under Section 386, and probably under Section 387 as well, shot and killed the man in such manner as would have been justified by Section 41 if Sections 386 & 387 had been included in paragraph "K" of Section 646 which enumerates the Sections covering the different kinds of theft for the commission of which persons may be arrested without a Unfortunately in the compilation of paragraph "K" of Section 646 these Sections had, through inadvertence, been omitted, consequently the Constable was held to have acted wrongfully. In other words had to suffer for the mistakes of others. It was contended on behalf of the constable during his trial on a charge of manslaughter, that notwithstanding the omission referred to above, the common law justification (See Section 16) still applied, but the Court ruled against this connection. This very important matter was brought to the notice of your Committee by Chief McRae in December 1907, and in January 1908 the case was submitted to the Minister of Justice, and as a result a correction has been made by including Sections 386 and 387 as well as Sections 390 and 396, in their proper place in paragraph "K" of Section 646.

Warrants against imprisoned Convicts.

By an Amendment to Section 662 a Judge of any Superior, County or District Court may order the production for trial of any person serving a term of imprisonment in any jail or other prison in the Province before any Magistrate or Justice of the Peace of the Province by whom a Warrant for any criminal offence has been issued against him.

Prisoners electing trial.

By an Amendment to Sub Section 2, of Section 778, it is not now necessary for the Magistrate to name the Court, or to use any set form of words when asking a prisoner to elect how he will be tried.

The foregoing Amendments were made during the last session of the Dominion Parliament and a knowledge of them will no doubt prove a help to you all.

Correspondence.

Considerable correspondence took place during the year, much of it of course, of a routine character. The following, however, may be of interest.

A letter from Chief Constable Vincent, Lindsay, Ont., asking what sentence is usually passed on prisoners who have escaped from goal. In reply I referred to the Provision of the Criminal Code, which provides for any term of imprisonment up to seven years; at the same time, pointing out that the Courts are usually lenient in such cases, where no violence has been used.

Letters with Mr. W. D. McPherson, M.P.P., on the subject of his Bill to restrict the traffic in small firearms, and calling his attention to the danger arising from the large business done by second-hand dealers.

Correspondence with Chief Constable McRae, Winnipeg, as to the advisability of a Police Code for tele-

graphic work.

Correspondence with Hon. A. B. Aylesworth, Minister of Justice, with regard to the handling of indecent post cards and pictures, in which the Minister thus states the position:-

Toronto, May 5th, 1909.

The Hon. Minister of Justice,

Ottawa, Ont.

Re Proposed Amendments to Criminal Code.

Dear Sir :-

In proposed Amendment to Sec. 207 is it made quite clear by the wording thereof that it will not be necessary for the prosecution to prove that sale or other distribution or circulation is intended? If not we will still be confronted with the difficulty we encountered in the "Graff" case, under the law as it now stands. In that case the Crown officers held that having in possession, even in such large quantities, was not an offence in the absence of proof of sale, distribution or circulation. Would it not simplify matters if onus of proof of purpose for which possession is held were thrown on person charged, particularly when found in unreasonable quantities. I would suggest adding the word "publishes" after the word "manufactures" in first line of proposed Amendment. Also that the same right of search and destruction under certain restrictions be given as is now enjoyed in case of gaming houses under Sec. 641 and two following sub-sections.

The rights of the individual would be amply protected as proceedings can be initiated only by the Chief Constable or his responsible representative on affirmation

approved by the Police Magistrate.

Yours truly,

Wm. Stark, Secretary-Treasurer. Ottawa, Ont., May 6th, 1909.

Wm. Stark, Esq., Secretary-Treasurer,

Chief Constables' Association,

Toronto, Ont.

Dear Sir: 800 moitoek

I have your letter of the 5th ins. with reference to suggested Amendments to Sec. 207 of the Criminal

You will observe that the proposed language makes it an offence for anyone to have in his possession indecent pictures "for sale, distribution, or circulation". This means for the purpose of selling, distributing or circulating, and the purpose or intention with which anyone may have possession of such pictures is simply a matter for the Court to infer from all circumstances which may appear in any particular case. In many proceedings, both civil and criminal, the intention with which a thing is done is to be determined by the Court. A man may be charged with having liquor on his premises "for sale" and I have no doubt that many convictions for this offence have been made without any evidence of an actual sale having taken place. The quantity of the commodity which the accused person had on hand, would, I think, be a strong circumstance to be taken into account.

Mr. Ranev wrote me, some days ago, urging that the word "publishes" should be inserted in the section, and I certainly should have no objection, but as a matter of law every act of distribution or circulation is necessarily a publication. "Publishing" does not mean printing, but "making public". I may add that after writing Mr. Raney to the above effect, he replied apparently conceding that the Amendment as proposed would meet the difficulties which have arisen under the Section as it now stands in the Code, and possibly if you could discuss the matter with Mm. Raney you would reach the same conclusion. Service energy of the authorities in the property of which

saw yllaned on Yours faithfully, erew seithwallib success

-seq ni retism flow gaived viquite A. B. Aylesworth. 19 The case

edt bas one emertz Membership. w

A number of changes have taken place in the mem-

bership of the Association during the year. It is ignored

The only death recorded is that of Chief Thomas Connor, of Port Arthur. As Chief Connor only attended the Convention of 1906 he was not very well known but created a favorable impression among those with whom he came in contact on that occasion.

Owing to changes in their official positions, or their retirement altogether from the Service, the following have ceased to be members: Thos Bell, Whitby; Wm. Burke, Brockville; Major Beale, Edmonton; J. Crawford, Oshawa; A. D. Dalgleish, Kenora; T. English, Calgary; G. C. Flintoff, West Toronto; R. Parnell, St. Catharines, and C. E. Vanmere, Simcoe. The names of the successors of most of those who have gone out already adorn our membership roll, and no doubt the others will follow in due course.

British Police Methods.

In my report of last year, I promised the Association a paper for this Convention giving my impressions of Police methods, and systems in Britain as obtained during my visit there a year ago, but owing to the large number of papers already promised, and the short time at our disposal, I felt that I should not trespass upon your time and patience. I shall be glad, however, to give you those impressions in several short letters to our Official organ, The Canadian Municipal Journal, during the coming winter if agreeable to the Association, provided, of course, the Journal will undertake to publish them.*

A Standing Committee on Legislation.

In view of the frequency with which changes are being made in the Criminal law, I would suggest the advisability of making provision for a standing Committee on Legislation. The members of this Committee should reside within a reasonable distance of Ottawa so that they could be got together at the seat of Government on short notice, and at comparatively small expense which the individual, or his municipality, would have to bear for some time at least.

Financial Statement.

Balance Membership fees	\$136.24 192.00 6.40
right of triat by Jury of persons charon with being inmates or frequenter	\$334.64
Expenditure, 1908 od benfish sa sosi	ind attachm
Printing, Stationery, etc	\$ 65.00
Canadian Municipal Journal	22.50
Stenographer	25.00
Letter Book	90
Nent & Sons, Dadges	18.00
G. H. Webster, circulars	1.25
G. H. Webster, vising certificates .	12.50
Balance . Anertis W. dorsold in the Section 629 and the Sectin 629 and the Section 629 and the Section 629 and the Section 629	\$189.49
poet of evidence or stolen goods, t	

Respectfully submitted. Dally and abiatro

Wm. Stark, Secretary-Treasurer.

^{*} The letters will be welcomed.—En. and and an about

Chief Trudel: I move that the Secretary-Treasurer's

report be received; seconded by Chief Clark.

Chief Langley: Before the Secretary-Treasurer's report is passed I would like to say a few words regarding Opium and Cocaine, to which the report refers. We have in the West many Opium Joints and in order to get a conviction we must satisfy the Magistrates that they are places where people congregate and smoke opium, and I would suggest that a strong recommendation be made to the Minister of Justice to have an Act passed making it an offence to smoke opium or use cocaine anywhere, the fact of using it should constitute the offence, whether in your private house or elsewhere.

Chief Chamberlin: I think perhaps my friend from Victoria and myself are more interested in the Opium and Cocaine question than are any others in the Dominion, in fact in the East you scarcely know what it is. Last year we got a few convictions for the sale of opium, and in every case seized a quantity of opium, but had to give it back. The law should not be such as to compel its return after a conviction has been secured. It is not so much a conviction we want as to stop opium

The Secretary: Under the Act as recently amended opium or other paraphernalia used in Opium Joints can be confiscated and destroyed by the convicting Magistrate's order. school or Mood or soot or

not to have a award ylean Motion carried.

The President: Inspector Archibald, of Toronto, will now read his paper. an almoro P and sucremus



Gambling: -as applied to the Race Track, and the Stock Market

Chief Inspector Archibald, Toronto

In dealing with this question let us ask and endeavour to answer the following questions:-Can the law provided for the suppression of gambling be enforced, and if so, what are the reasons why it is not enforced?

Here is a brief definition of the literal and legal meaning of gambling according to first, the Standard Dictionary: "to play a game, especially a game of chance, for stakes, to risk money or other possession on an event, chance or other contingency; to pretend to buy or sell, depending upon chance variations in prices for gain". And for the second definition which is the legal and statutory one, let me refer you to the Criminal Code, S.S. 226-236 inclusive.

In the reading of these sections, in so far as the lay mind can comprehend their meaning, one would be inclined to conclude that all phases of known gambling are therein enumerated and defined together with provisions made for their suppression. Then it may well be asked,

why are these vices not suppressed?

Let us also ascertain to what extent gambling, and especially race-track gambling, is carried on in Canada. Here we may quote an extract taken from the Toronto Evening Telegram, giving an approximate estimate of the numbers who attended during the two weeks at the recent Ontario Jockey Club's meet, held at the Woodbine Race Track, Toronto, and also the amount of money which changed hands. This extract was in part quoted by the Toronto Conference of the Methodist Church, and included in a resolution dealing with the question of Race Track Gambling, of which the annexed is an extract.

Extract from Toronto Conference Report. 1909.

"As a Methodist Church, and as Christian Citizens, we deeply deplore the existence in this rapidly growing young nation of quasi legalized Race Track Gambling. with all its corrupting and demoralizing influences. Your Committee begs to express surprise and regret that the Dominion Government though strongly appealed to for some years past, has so far neglected to grant effective legislation dealing with this evil.

"The Toronto Evening Telegram of June 5th, publishes the following startling statistics regarding the last meet of the Ontario Jockey Club in the City of

Toronto:

Attendance . M. J. J. ot. ot. o. M	168,000	
Amount bet	\$2,600,000	
Expended by book-makers.	\$115,000	
Car fare to T. to. bonva donn't). Inc	\$12,500	
Admission, (members)	\$5,000	
Hacks and Autos		
Racing Dope. d. how	\$10,000	
Other Expenses of meet	\$346,115	

"The foregoing is only the mercenary side of the question. No language can attempt to give an adequate idea of the disastrous consequences physically, intellectually, morally and religiously resulting from this university of gambling and crime. We profoundly regret that the Governor General of this Dominion, and other men occupying high positions of honor and trust, have, by their presence at the Woodbine Race Track. given countenance and support to a debasing evil which permeates all classes of Society in one form or another, and which is a menace to the moral welfare of our nation. Rigid laws against Race Track Gambling in many of the States of the American Union have driven professional gamblers to this side of the line, till even the Grand Jury in its last session in this City characterized this Province as a "Paradise for gamblers".

"We therefore urgently petition the Government of Canada to introduce such legislation as will prohibit gambling and betting in connection with horse racing at any time, and anywhere, and also to prevent the publication of advertisements offering tips on races and

betting intelligence of every sort.

"We would also quote an extract from the resolutions adopted by the General Assembly of the Presbyterian Church of Canada in June 1909. b) of the late (1)

Race Track Betting.

"That whereas the Courts have interpreted the clauses of the Criminal Code intended to prohibit professional book-makers from negotiating bets, in such a way as to make this lawful on a race track if the book-maker moves about, while unlawful if he remains in any building, booth or place, thus at once defeating the manifest intention of Parliament and making the law ridiculous.

"And whereas the State of New York as well as many other American States, has recently put an end to all such professional gambling, leaving Canada almost alone on the northern half of the continent as legalising this vice, and making the Dominion the dumping ground and her race tracks the chief rendez-vous of gamblers and other criminals from all over the continent;

"And whereas our boys and young men in thousands, are in consequence being publicly schooled in vice and crime, ruining their characters and destroying the hap-

piness of countless hearts and homes;

"And whereas this Board of Moral and Social Reform, co-operating with the authorities of all other churches and sympathetic organizations, has for two years been pressing the Dominion Government to ask Parliament to amend the Code making the original intention clear;

"And whereas the request is in the judgment of the

Assembly extremely modest and reasonable;

"Therefore Resolved that the Assembly express its strong sense of disappointment, and indignation on learning that the Government has refused to accede to this request, though repeatedly and respectfully pressed, and insist that the Government bear full responsibility for the injury done to the good name and highest well-being of our fair Dominion, and earnestly calls upon all who respect the Assembly's authority and judgment to join in awakening public opinion in all parts of Canada and bringing every legitimate influence to bear upon the members of Parliament and the Government until action is taken to right this great and serious wrong."

"Also an extract from Evening Telegram of June 17th, 1908, re Episcopal Church Synod of Toronto Diocese on the same subject: "Widows or Woodbine. Which will

the Church support?"

With indignation in his voice, the Hon. S. H. Blake, K.C., thus added his voice to the chorus of church denunciation of the Woodbine, at the afternoon session of

the Synod of Toronto Diocese meeting.

It will be seen by reference to Sec. 235, SS. 2 Criminal Code, that some provision was supposed to have been made for betting on and during the meet of a regularly organized and incorporated race track. This was taken advantage of until Race track gambling became a public scandal, demoralizing in the extreme until a case known as the Queen vs. Handalian, in which the Police Magistrate of Windsor convicted the defendant for keeping a common betting house. This case was taken to the Court of Appeal, where the conviction was unanimously sustained, the late Chief Justice Armour in his judgment was very emphatic holding as he did that betting on any track, whether incorporated or otherwise, was an offence against the Criminal Code. The writer acting in accordance with this judgment brought the President of the Ontario Jockey Club into Court where Col. Denison convicted, giving a stated case, which was taken to the Court of Appeal, where the conviction was quashed, the Court holding that as the President neither took part in the Book-making nor profited thereby, a convic-

tion could not be sustained against him. At the ame time one of the Judges made a remark to the effect that the Crown should have proceeded against the Bookmakers. At next Race track meet, evidence was secured and several book-makers were brought into Court-one of whom was selected as a test case. Col. Denison again made a conviction and this case was also taken to the Court of Appeal, where the conviction was sustained. It was then carried to the Supreme Court at Ottawa, and the judgment of the Court of Appeal was upheld—with one or two of the Judges dissenting. This however did not put a stop to the gambling on the Woodbine Race Track, which was shown by a change of tactics in which the book-makers stood on the lawn (an enclosure set apart for the book-makers and their customers) and continued business as usual, the only difference being that they stood marking time instead of sitting. A case was brought into Court and a conviction secured before Col. Denison who, when passing sentence, stated that the attempted subterfuge in order to evade the law (in his judgment) intensified the offence. This case was also taken to the Court of Appeal and quashed on the grounds that standing up and moving about whilst the business of betting was being carried on, did not constitute an offence, not being a house, room or place.

We can only refer briefly to the second phase of gambing, viz.: "Gaming in Stock or Merchandise", Sec. 231 Criminal Code, commonly known as an Act for the Suppression of Bucket Shops, which at that time had become very numerous. One Toronto man was said to have operated fifty of them all over the country. The Police authorities of Toronto lost no time in putting the machinery of the new Act in motion, and were successful in securing several convictions before Col. Denison, Police Magistrate, but the convictions were quashed by the Superior Courts on technical grounds every time. A case was then sent for trial from Police Court to the Assizes, a clear case made out, but the Trial Judge not only took it from the Jury on technical grounds, but undertook also to lecture the Crown authorities in general and the Police Officer who put the law in motion in particular. This gratuitous admonition by the Judge was followed by a series of charges formulated against the Police Officer in question who was taken before the Police Commissioners, where needless to add the charges were not only peremptorily dismissed, but the Officer was strongly commended in the premises. Nevertheless that judgment has been allowed to stand for about 15 years (and practically stands to-day) thereby allowing Gaming in Stocks carte blanche notwithstanding the fact that a comprehensive statement of all the facts in the case and the necessity for Amendment to Act in order to remove the effects of the judgment was prepared by one of the ablest lawyers in Canada and forwarded to the Minister of Justice by the Chief Constable of Toronto. In consequence of that inaction, Gaming in Stocks, with some slight changes in the modus operandi has been and continues to be carried on, with its demoralizing and disastrous effects upon all classes of the community.

At this point the question might very properly be asked, "Why should the Police trouble themselves to secure the enforcement of the Law's intention in respect

to Gambling?"
It is not my

It is not my intention to re-open the question of the duties and obligations of a Police Officer. That matter has been dealt with in detail in the paper on "The Suppression of Vice", read at the second Convention held in Toronto in 1906. But I would remind you that the Police Officer is bound by his Oath of Office to enforce the laws without fear, favour, or affection.

Every right thinking and law abiding citizen of this Country looks to him to enforce those laws which they have given expression to, and no Police Officer can claim to have lived up to the level of his duty towards the public, if after taking oath and accepting public money he fails to do his utmost to bring gamblers to Justice.

Especially is this necessary to-day, when the Police Officer is liable to be made the scapegoat in the public mind of spineless and incompetent Crown Officers, and

unscrupulous timeserving politicians.

By a consistent and fearless carrying out of the law in respect to gambling, he can do more than anyone else to make it clear to the public where the game lies, if these dangerous and demoralizing elements in society go unpunished, and thus compel the law-makers to amend legislation where it is defective in expressing in exact legal phraseology the clear way of the people.

I would therefore recommend that this Association after due discussion and mature deliberation take such action as in their judgment will best conserve and definitely demonstrate the purpose for which this organiza-

tion stands.

High Constable Bissonnette: I wish to ask if the King of England did not win the great horse race in England

this year.

Inspector Archibald: Probably Mr. Bissonnette has misunderstood my paper. We are responsible for our own acts and the carrying out of our own obligations. It is not so much a question of morals. If the people we are protecting are to be served faithfully, we must carry out the laws that are placed on the Statutes. It is no justification for our neglect to say "others do wrong".

High Constable Bissonnette: I only ask if it is true that the King of England won the great horse race in

England this year.

Inspector Archibald: The newspapers said he did. High Constable Bissonnette: That is all I want to know.

Secretary Treasurer: It is not a question of morals, as the last speaker has said, but a question of law. We want the law, whatever it may be, put in such shape that we can enforce it and not have the people come to us and say we are not doing our duty. As this law stands now, one Court says it means one thing and another Court says it means something else, why then should the police be made a laughing stock of, by their attempts to enforce such a law. (Applause.) The Courts have said that it is illegal for a book-maker to occupy a stand on a race-track, so the book-maker in order to evade the law removes the stand and keeps moving about on the space formerly occupied by the stand, and the law says that is not illegal because he does not occupy a place; now imagine, if you can, a greater absurdity. If you stand on a box and take bets you are guilty of an offence, but if you kick the box away and move about on the space where it stood you are not guilty because you do not occupy a place.

AFTERNOON SESSION.

High Constable Twiss: Referring to Inspector Archibald's paper of this morning, I would like to ask what is a Chief Constable's duty as laid down in that paper?

Chief Clark: It is our duty to carry out the law as it appears on the Statute Book. If the people do not want such a law, remove it from the Statutes; if they do want it, then let us have it in proper form so that we can carry it out intelligently.

High Constable Twiss: When a man has broken the law it is my duty to have him in Court (if it

comes within my jurisdiction). I do not think it is for us to say that the Judges are wrong, or for me to tell the people and Judges that they are wrong, and I am right, it is for me to abide by the decision of the Courts.

Chief Rideout: I agree with Inspector Archibald's paper. There are many inconsistencies in the laws which are difficult to reconcile with common sense. Many of our Courts are all right, but some are inclined to be lenient with the influential. It is up to us to get after the law makers, show them the weak points and ask that they be strengthened.

Chief Chamberlin: I do not think we are called upon to do more than point out the defects, and if it is not thought fit to remedy them, then we can only enforce them as far as they will go. So long as we do our whole duty, whether we secure a conviction or not, we cannot

be seriously found fault with.

High Constable Twiss: In Wentworth County we are in a somewhat similar position to Toronto. We have had race-track gamblers up and got beaten, so we are now watching Toronto's next move. Gamblers will do anything to get over the law, they get the advice of the best lawyers and if you stop them gambling one way, then they gamble another, and if they cannot sit or stand and do it, then they will move about and do it. The question of race-track gambling has been before Parliament for a long time. The religious people of the Country are against it, so are the Chief Constables, but we have been beaten in the Courts on the law as it now stands. When the Judges of Appeal say that betting as at present conducted is legal, what right have we to say it is not. Why should we condemn the Judges when they rule according to their interpretation of the law? I think it is up to us to acquiesce and not say they are wrong and we are right.

Chief Sleeman: We all know that the followers of the race-track will take advantage of every loop hole and I think the absurdity of the present situation has been fully exemplified. We can only carry out the law as given to us, and if found unworkable use our influence to have it amended. We are not finding fault with the Judges but with a law that is capable of such

an absurd interpretation.

Chief Newton: Inspector Archibald is not against horse-racing but against gambling. I take issue with Chief Twiss, I think if we find a law on the Statute Books that we have difficulty in carrying out by reason of a difference of opinion between Judges, it is our duty to point it out to the law-makers and ask that it be changed so that we can enforce the law as intended.

High Constable Boyle: The law in question was passed by the Dominion Parliament, and if not workable surely it is our duty to ask our Legislation Committee

to try and have it changed.

High Constable Twiss: I am opposed to betting as much as anyone here, but I do not think the Judges are all wrong, nor do I say they are all right. I think it out of place to have our records say that the Chief Constables' Association of Canada think some of the Judges of Canada are technical Judges.

Chief Kimmins: Would it not be in the interest of the Association to petition the Minister of Justice to

amend the law as suggested?

Chief Lancey: If the Courts have decided that racetrack gambling is legal, in what way do the Chief Constables suffer?

Chief Sleeman: The morals of the Country suffer, and the police suffer in their reputation, while the Courts are disputing, some holding that it is legal, others that it is illegal.

Chief Lancey: If that is the moral sentiment of the Country I fancy we should have heard more about it.

Inspector Archibald: A careful review of the Secretary-Treasurer's report clearly demonstrates all that this Association stands for. To the credit of this Association, amendments have already been made on the lines indicated and if necessary I am sure still further amendments can be secured. In 1892 I prepared amendments to seven different Acts in the Statute Books and had them placed in the hands of the then Minister of Justice, and as a result they found their way into the Criminal Code, which shows what can be done in the way of correcting imperfections in the laws. Magistrates say that under the present law it is an offence, some Judges say it is, and some say it is not. While the Courts are trying to find out what the law is, the police find themselves between the devil and the deep sea, and the cry is continually being raised "why don't the police enforce the laws and stop race-track gambling?". Gentlemen, we are paid to do it and we will do it if the Legislators will give us a law that the courts can agree upon; if they will not, then the Legislators, not the police, must take the responsibility.

Chief Trudel: I think the Association should try and have the law so amended as to make it clear to all what is intended, but we have no right to say, and do not say, that an Act should be amended simply because the Judges, or some of them do not agree with our view. My idea is this, if the courts say they can not convict under the law as it now stands, then let us have it brought to the attention of the Minister of Justice, and if he says it is what was intended why we have nothing to do but accept it and do our best un-

Secretary-Treasurer: Our good friend Chief Twiss need not be so solicitous about the Judges, they are quite able to take care of themselves. Taking a man from the Bar and placing him on the Bench does not place him above the weaknesses common to humanity. It is scarcely fair for any member of the Association to read into the lines of the paper just read, matter that it does not contain. The closest criticism of that paper will not reveal a single statement therein reflecting on the Judiciary of this Country. The public sentiment of Canada demanded that a law be placed on the Statute Books prohibiting gambling on race-tracks, and the law-makers said in answer to the demand: "Here is a law that will meet all requirements". My good friend from Dundas says the Judges always know the law, now do they? A case goes into Court and a conviction follows; the case is appealed and the Judges of the higher Court say practically the Judges of the lower Court were wrong and dismiss the case. By the final decision we are told that if a book-maker stands still and takes bets he is transgressing the law because he is occupying a place, but if he moves about in ever so small a space he is not transgressing because he is not occupying a place. If that is a correct interpretation of the law, and we are bound to assume that it is, then it is not the kind of law the people of Canada thought they were getting. We are simply directing attention to the fact that this law according to the interpretation put upon it by the courts is incapable of accomplishing what it was intended to accomplish, viz., the prohibition of gambling on the race-tracks of Canada. We are not criticising the Judges, but calling attention to defects in the law as revealed by their judgments. My good friend from Dundas says if the law is wrong, let it alone.

Inspector McClelland: I move that Inspector Archi-

bald's paper be referred to the Executive Committee with

instructions to take such action thereon as they deem advisable under the circumstances; seconded by Chief Williams.

Secretary-Treasurer: I have letters of regret from High Constable Cinq-Mars, of Montreal; Chiefs Mattson, of Arnprior; Zeats, of Regina; Carpenter, of Montreal; Inspector McMahon, of Hamilton; Dominion Parole Officer Archibald, of Ottawa, and Mr. Bragg, of The Canadian Municipal Journal.

(To be continued). He enother process

Protect the Public

Chief Justice Howell, of Manitoba, has given a very important decision by admitting as evidence the confession of a prisoner in his cell, obtained by a decoy. His Lordship took the very sensible view that the Police needed all the fair assistance possible in order to protect the public against hardened and professional criminals del noiteredifob ermam bue

Provincial Police mas nother

The Ontario Government is maturing a plan for establishing a Provincial Police Force. The old system has proved so utterly antiquated and useless, as shown in papers read at the Convention of the Chief Constables Association, and published in these pages, that it will be replaced by a modern organization which will be useful instead of merely being a farce. The Hon. J. J. Foy, Attorney General, is considering what will be the most practical plan. people we are protecting

setulate ed no hoMay not Marry the virus damm

Judge Warren W. Foster, of New York, has suspended sentence on a thief, so long as he does not marry. A girl appeared at the trial, and the prisoner's lawyer put forward as a reason for letting him off that she was willing to marry him, and reform him. But the judge held that the woman would be dragged down to her husband's level, and gave the suspended sentence only with the clause that if the prisoner married her before he could prove that he was a reformed character, he would send him down for two and a half years.

Judge Foster is not far from being right. If criminals were prevented from marrying, there might be some chance of lessening the proportion of criminals.

The only Real Punishment

The absurdity of fining either the owner or chauffeur of an automobile for scrocking is apparent when we considers that a fine is merely a trifle to such people.

The only way to teach the selfish motorist that he cannot endanger the public with impunity is to send him to jail. A young millionaire in Minneapolis has just been sent down for five days, without the option of a fine. This is the only cure—though a few lashes in might also be efficacious.

roy samed viling The Big City or dw eags odd

From a village of one acre in extent London has expanded in 2,000 years to a metropolis covering 117 square miles, containing 2,134 miles of street; 632,591 houses; 5,000,000 residents, 329 railway stations; 28,265 factories, 88 public libraries; 9,000 acres of public parks. Its property is insured from fire at £1,040,057,846. The local railways are worth £66,888,265. The number of passengers carried by the local railways and tramcars alone numbered 949,000,000 last year, equal to 200 journeys for every man, woman and child in London, while millions more were carried in omnibuses and cabs.

THE PERSON OF THE PROPERTY OF THE PERSON OF



TELEPHONE NEWS



OFFICIAL INFORMATION
OF THE

CANADIAN INDEPENDENT TELEPHONE ASSOCIATION

&c. &c. &c.

Annual Conv

City Hall, Toronto, Wednesday,

Hannan

A TRIP TO WATERFORD

Prospective telephone buyers can make no better investment than to visit Waterford,

1st. You will visit the mammoth plant of the Dominion Telephone Manufacturing Co. Ltd. and see how we manufacture complete telephones and switchboards from the raw material, see how we assemble them, see what a rigid test we give every part, see how we pack them ready for shipment.

2ND. You will visit a complete and up-to-the-second telephone exchange using the same kind of equipment manufactured by the Dominion Telephone Mfg. Co. Ltd.

3RD. You will be shown a modern rural telephone system, using the same telephones and equipment manufactured by the Dominion Telephone Mfg. Co. Ltd.

4TH. You will be shown the books of the Telephone Exchange which will show you how a ten per cent dividend is paid every year.

SEEING IS BELIEVING

ombil If you want telephone apparatus that will pay you dividends,

If you want telephone apparatus that is manufactured in Canada,

If you want to avoid paying duty on parts that are manufactured outside of Canada,

If you want to trade with Canadians,

If you want the best telephone apparatus on earth and have it proven to YOU to YOUR satisfaction by actually seeing it made and in operation in the same town,

COME TO WATERFORD

We claim to be the only bona fide Independent Telephone Manufacturing Company in Canada that manufactures ALL of its apparatus and can prove it to YOUR satisfaction, notwithstanding the untruthful statements of disgruntled assemblers traveling under the guise of manufacturers. Ask the so called Independent manufacturers in Toronto what make of transmitters, receivers, generators, etc., etc., etc., they use on their apparatus and where they are made.

Dominion Telephone Mfg. Co., Ltd.

The only Independent Manufacturers in Canada manufacturing ALL their apparatus from the raw material.

H.W.B.

Canadian Independent Telephone Association

OFFICERS 1908-9.

President, Dr. F. Demers, Levis, Que.
Vice-Pres., W. Doan, M. D., Harrietsville, Ont.
Sec.-Treas., F. Page Wilson, Confederation Life Bldg., Toronto, Ont.

EXECUTIVE COMMITTEE:

Dr. A. Ochs, Hespeler, Ont.; Dr. E. Hart, Brantford, Ont.; Levi Moyer, Beamsville, Ont.; F. Dagger, Regina, Sask.; C. Skinner, Sherbrooke, Que.; A. Hoover, Green River, Ont.; T. R. Maybury, M. L. A., Ingersoll, Ont.; G. W. Jones, Clark, Ont.; A. D. Bruce, Gormley, Ont.

AUDITORS:

C. B. Adams, Harrietsville, Ont.; Dr. Dales, Stouffville, Ont.

Third Annual Convention

City Hall, Toronto, Wednesday, September 8th

PROGRAMME

10 a.m.—Meeting called to order. Address of welcome.

Reports.

Papers and Addresses:

AGAL & LONG DISTANCE

Independent Telephone Situation in Canada. By F. Dagger, Dr. Demers, T. R. Mayberry, M.L.A.

Is the Telephone a natural monopoly? By F. Dagger.

Good Construction. Proper Rates for Rural Service. Collections. Independent Telephones in Railway Stations. By C. Skinner.

Exchange Directory. By Dr. Doan.

Reasonable Toll Connection Relations.

Good Operating. Forced Physical Connection.

The Edmonton Automatic Telephone System

W. E. Baker, Edmonton, Alta.

The City of Edmonton certainly took a bold plunge when she decided to install an automatic telephone system, but the wisdom of the course pursued has been amply verified. To the ordinary individual, the system soon recommends itself, and as there is practically nothing to be learned, even little children are able to use

the automatic 'phone with very little tuition.

Some of the chief merits of the Strowger System, which is the automatic 'phone system that was installed at Edmonton a year ago, are: secrecy, rapidity and simplicity for the user. On arriving at the office in the morning, I often require to get a good many market reports from different parts of the city, chiefly as to prices of produce. By sitting down to the automatic phone and turning the dial rapidly from one number to another, I have in a few minutes acquired the mass of information that might under the old system have taken me the best part of an hour or longer, waiting for connections. That is rapidity. The simplicity needs no explaining, and the secrecy is assured, as I myself connect up direct with the offices from which I require information, and there is no third party on the wire.

The Calgary Herald of recent date, in regard to the manual system in force there, says: "The telephone service is getting poorer all the time. The slowness of the answers, and inaccuracies in connections are in striking contrast to the efficiency of the automatic service in Edmonton. Will the Government please inject a little efficiency into the local office, or change it for a system which human imperfections cannot in-

The Edmonton Automatic Telephone system was installed by the Automatic Electric Company, of Chicago, who own the Strowger patents, in the spring of 1908, with 1,000 'phones, and in the year that has intervened,

the 'phones in use have nearly doubled, so that we now have 2,000 'phones in use in Edmonton, so perfectly satisfactory has the service been to all concerned. The town of Strathcona lies south of Edmonton, on the other side of a deep valley, with the Saskatchewan River between. One hundred automatic 'phones were installed in Strathcona last year, and, in a year's time, there will be found there in use to-day three hundred. Strathcona, of course, is a much smaller place than Edmonton.

Both cities are connected with trunk lines, so a call can be put in from a private 'phone in Edmonton to another private 'phone in Strathcona, in exactly the same way that a call is made within the confines of either place, although these cities must be two miles apart, or if a call is made from the northern limit of Edmonton to the southern limit of Strathcona, the distance would be four miles or more.

The Parliament Buildings have also a private branch. so that each office in the Government Buildings can have connection with any 'phone on the outside. The whole three systems of Edmonton, Strathcona and the Government Offices work simply and without a hitch. These three automatic systems are all connected with the Alberta Provincial Long Distance System at the Parliament Buildings, so that by going to our own 'phone we can communicate from our own desks with places 400 miles south of us or at any point in the Province on the Government System or with Local 'phones.

This combination has been so satisfactory that recently the Hon. W. H. Cushing, Minister of Public Works for Alberta, went to Chicago to study the larger systems of automatic 'phones that had been in operation some years. He came back recently so satisfied that the Alberta Government has now adopted the Strowger Standard equipment for the Province, and has closed a contract for a system of 1,000 automatic 'phones to be installed at Lethbridge, with a full capacity, to be used later if required, of 5,000.

A branch exchange is also being put in for East Cal-

gary, of 500 automatic 'phones, 300 to be installed at once. This last automatic branch exchange will connect with the manual switchboard in use in Calgary, as this latter system is very readily exchanged or connected

with the automatic system.

The Lethbridge System, and the East Calgary System can both be connected up with the Provincial Long Distance System, so there is practically no loss or inconvenience in going from one system to the other or connecting the new with the old. The old system in Alberta will, most probably, be changed in the near future to the new. There is little doubt but that no more manual switchboard will be installed in Alberta in any of the new towns, the Strowger Automatic System being so far superior.

Edmonton dwellers, when going to places where the old system is in use, look down upon their less fortunate brethren in a superior way, considering the old 'phones as jokes or back-numbers and old-fangled ideas in comparison to the greater simplicity and convenience of the

automatic 'phones they have at home.

It is certainly a triumph to the foresight of Edmonton that she led the way in the West in regard to Automatic 'phones, which are being taken up by the Alberta Provincial Government for its own service, and which Government owns and operates the long distance service and is acquiring the local systems. It is a pleasure to write a record of a good thing for the benefit of others; and I may here state that I have no interest in the Strowger Company, do not own a share in the concern, and do not know anyone that does.

Edmonton people are not only pleased with their Au-

tomatic System, but are proud of it.

Telephone Companies Incorporated

Pleasant Plains Rural Telephone Company, Limited. Registered office: Blackwood, Sask.

The Condie Rural Telephone Company, Limited.

Registered office: Condie, Sask.

The Oxbow Farmers' Rural Telephone Company, Limited. Registered office: Oxbow, Sask.

South Regina Rural Telephone Company, Limited. Registered office: Regina, Sask.

Bienfait Rural Telephone Company, Limited. Reg-

istered office: Bienfait, Sask.

The Lac qui Parle Rural Telephone Company, Limited. Registered office: Midale, Sask.

DAVIDSON, SASK. — The by-law for the municipal ownership of telephones was defeated by a vote of 33 to 34.

ST. FRANÇOIS XAVIER, MAN. — The telephone poles are planted all the way from Headingly to the post office here. The men are busy putting up the wire.

The Oxbow Rural Telephone Company is calling for tenders for laying out and staking a rural line, hauling and erecting poles, attaching wires and installing

PORT ARTHUR, ONT., has purchased the Bell

Telephone plant and equipment.

An independent telephone company called the Oro Telephone Company has been organized in Ontario, with a capital of \$20,000.

A New York telephone company has installed 2,500 American 'phones in Pekin, China, costing the Chinese Government \$150,000. The plant will have an ultimate capacity of 20,000 lines.

Suggestions and Don'ts

Never buy a telephone just because it is "cheap." won't last.

Use bridging telephones, always, on party lines.

Small poles and slouchy construction are a serious

Poles should be set straight and well tamped.

Guy all corners and angles well. Taper or roof the top of your poles.

Paint the tops of your poles and cross-arm gains with metallic paint.

Keep wires free from contact with poles or brackets. Bind your line wire firmly into the groove of the insulator with a tie wire.

Wires should not be strung through trees, if it can be avoided, and where this is impossible the branches should be trimmed away, and if this is not possible use insulated wire in such sections.

The grounded wire system (one wire) is good, cost considered, but the metallic system (two wires) is al-

ways better.

Stretch wires, not too tight, but so they won't sag and touch other wires, or swing together.

Keep away from electric light, telegraph or trolley

Always fasten the instrument firmly to the wall with screws, not nails.

Make good, deep ground connections for your lightning arrester and ground wire.

Never tamper with the transmitter or receiver.

Never undertake to adjust an instrument. It comes

Always endeavor to work harmoniously with every other patron on your line and co-operate cheerfully with such exchanges as you may have connection with. Exchanges are a valuable aid to rural lines. Treat them accordingly.

Ringer movement should always be wound to the

same resistance.

Never talk fast or loud over a telephone. The natural tone of conversation is sufficient.

DON'T oil any part of a telephone.

DON'T forget to place receiver on switch-hook when through talking.

DON'T talk too fast nor too loud, but clearly, and in a natural way.

DON'T forget to treat a telephone line you would like to be treated if you were a telephone.

DON'T think that all the troubles you have are in the telephone.

DON'T forget that if your lines and ground connections were as good as your telephone that your troubles would be less.

DON'T staple two wires under one tack or staple.

DON'T experiment with a telephone.

DON'T "rubber" on the line when others are talking. DON'T for Heaven's sake, buy a bargain-counter telephone.

DON'T buy a telephone from anyone but a manufacturer; mail order, department stores and supply-houses are not manufacturers.

DON'T forget to make a good ground connection; ground rods should not be less than seven feet into the earth, and wire leading from telephone soldered thereto.

DON'T neglect to solder every connection in line construction.

DON'T allow branches of trees or foliage to come in contact with line wire.

DON'T neglect to guy corner and end poles.

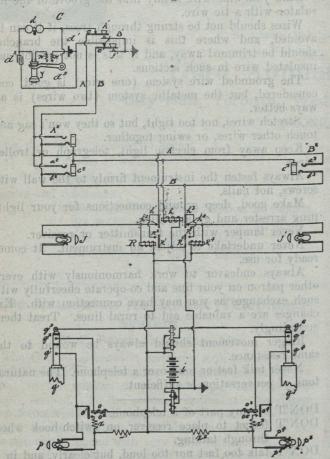
DON'T neglect to keep line wires on insulators at every

(From booklet "Rural Telephone" issued by the Dominion Telephone Mfg. Co.).

ABSTRACT OF TELEPHONE PATENTS

Granted in the United States during last month, prepared for The Canadian Municipal Journal by Edward E. Clement, Telephone Patent Expert, Washington, D.C.

Sender for Selective Systems. - Agrell. - This is a sending device for automatic systems, having a selecting switch set to the number wanted, and an impulse switch connected with the receiver hook. Unassigned. - 927,469.



Telephone Divided Multiple Switchboard System. - Push button switches at the substation light different km. — Push button switches at the substation light different line lamps in different divisions of the board selectively, so the calling subscriber can select the division in which the wanted line has a multiple jack. In the drawing, C indicates the subscriber's station, A, B, the line wires, A², B² the jacks in different divisions, J, J' the calling lamps, R, R⁴ the line relays, in the main battery, and q, q⁷ the operator's plugs. Unassigned. — 927,470.

Transmitter Mouthpiece. — Dean. — This is a sheet steel mouthpiece, covered with enamel. Assigned to The Dean Electric Co. of Elyria, Ohio. — 927,643.

Selective Telephone System. — Guyle. — This is a clockwork, time element, lockout, party line selective system, having a time wheel and disk at each station, and means for setting and restoring all the mechanisms simultaneously. Cutting in is prevented for a predetermined time after connection is established. Unassigned. — 927,651.

Operator's Key. - Manson. - This is a combined listening and ringing key with dummy actuating springs engaging the lever instead of the contact springs, which are worked by the dummies, thus avoiding several troubles heretofore occurring. Assigned to The Dean Electric Co., of Elyria, occurring. Assig

Selective Ringing and Talking Device. — Lisler & Smiley. - This is another step by step party line lock-out selective system, with only specific construction claimed. Unassigned. 927,816.

Hygienic Attachment for Telephone Transmitters. Smith. — A paper cone with closed end held on the mouth-piece by a frame. Unassigned. — 927,817.

Microphone. - Angelini. - Improved "corn-plaster" granular transmitter with bridge and back screw. Unassigned. - 928,096.

Telephone System. - Baumer. - Automatic branch exchange switching system with special arrangement of relays, Unassigned. - 928,171.

Electrically Controlled Meter System. — Clausen. ister described and shown at a substation of an automatic system. Has a manual tally device, and controlling circuits, so the subscriber is forced to record each call. Unassigned. 928,245.

Sanitary Guard for Telephones. — Florsheim. — Collapsible rubber liner for the mouthpiece, to be carried in the pocket. Unassigned. — 928,373.

Sound Producing Instrument. — Gottschalk. — Flexible cup covering inner end of mouthpiece and bottomed against

rediaphragm. Unassigned. — 928,651.
Telephone Cabinet. — Larsson. — Sheet metal backboard and battery box, complete. Unassigned. - 928,989.

Telephone Stand. — Schafer. — A jointed receiver holder is clamped to the desk standard. Unassigned. — 929,025. Telephone Attachment. — Detrick. — A bent wire holder

is fastened to the desk standard in this case. Unassigned .-929.404.

Service Meter System. — Reid. — A service meter with differentially wound magnet, part of the windings being shunted to register. Assigned to Kellogg Switchboard & Supply Co., of Chicago. — 929,708.

Resistance Curr Chicago. — Subdivided grapular re-

Resistance Cup. — Gottschalk. — Subdivided granular resistance button, with flexible partitions, to prevent packing, fraying, etc. Unassigned. — 928,652.

Telephone System. — May. — Subdivided system with au-

tomatic selector switches forming terminals of trunk lines from central to subcenters, the same switches controllable by both operators and calling subscribers. Unassigned. — 928,680.

Telephonic Apparatus. — Graham. — Complete marine outfit, with carefully designed waterproof parts throughout. The patent has 11 sheets of drawings and 10 pages of text. Assigned one-half to Alfred Graham & Co., Brockley, England. 928,862.

Telephone Exchange System. — Webster. — A common battery system with single relay first closing and then opening the supervisory lamp circuit as it is energized by a rising current. Assigned to Milo G. Kellogg, of Chicago.

Telephone Exchange System. — Webster. — A similar system with a polarized differentially wound relay controlling each supervisory lamp. Assigned to Milo G. Kellogg, of Chi-930,513.

Telephone Exchange System. — Webster. — A similar system with a neutral differentially wound relay for each lamp. Assigned to Milo G. Kellogg, of Chicago, Ill. — 930,514.

Telephone Exchange System. — Webster. — A similar system with differences of detail.

tem with differences of detail. Assigned to Milo G. Kellogg, of Chicago. - 930,515.

Telephone System. - Webster. - Common battery twowire system with shunting control for line and supervisory relays. Assigned to Milo G. Kellogg, of Chicago. — 930,516.

Telephone Exchange. - Webster. - Two-wire system with improvements in details of relay control. Assigned to Milo G. Kellogg, of Chicago. — 930,517.

Telephone System. — Webster. — Two-wire system using

supervisory lamps with direct control and no relays in cords.

Assigned to Milo G. Kellogg, of Chicago. — 930,518.

Telephone Exchange System. — Webster. — Di - Differential line relay in a similar system, with means to balance current in both windings when line is connected. Assigned to Milo G. Kellogg, of Chicago. — 930,519.

Telephone System. - Webster. - A similar system with a differential cut off relay for each line, having a twin winding to kill impedance in the talking circuit. Assigned to Milo G. Kellogg, of Chicago. — 930,520.

Telephone Exchange System. — Webster. — Cord circuit

testing device automatically cut off when plugs are both in, and a signal showing the disconnection. Assigned to Milo G. Kellogg, of Chicago. — 930,521.

Apparatus for Measured Service. — Hulfish. — A service

meter associated with and operated through a trunk selecting switch in a semi-automatic system. Assigned to American Telephone & Telegraph Co., of New York. — 930,547.

Telephone Repeater. — Gilson. — A rotary dynamo mag-

nifier, strengthening talking current as it passes. Unassigned. — 930,854.



Lake Shore Drive, Chicago, constructed with "Tarvia X."

ooden Stair-Wells are

ADDING TO THE LIFE OF MACADAM

TARVIA is to the fine stone of a macadam road exactly what cement is to concrete. It is a powerful binder filling the voids while fluid and then solidifying and forming a tough, adhesive matrix about the stone. The adhesion of TARVIA to stone is perfect. When the fine screenings that constitute a macadam surface are agglomerated with TARVIA, the suction of automobile wheels will not tear them loose in the form of dust. The life of the roadway is thereby greatly prolonged and the dust nuisance abated.

Some such radical reinforcement of macadam road surface is an absolute necessity to-day, as every road engineer has learned by costly experience, and TARVIA is the only answer thus far proposed and extensively tried out.

Without TARVIA the top surface of ordinary macadam will not last a year under automobile travel, and the dust nuisance is intolerable. The swift wheels suck the fine powder out of the roads and scatter it far and wide, stripping the lower courses of stone of their cushion; after which frost and the percolation of water quickly ravel the road. Continual resurfacing is so expensive that many road authorities have had to let the highways remain without surfacing, merely contenting themselves with repairing the worst breaks.

TARVIA makes macadam able to withstand automobile travel, makes the roadway dustless, and costs less than the expense of maintaining a road which has not been tarviated.

Booklets on request.

THE PATERSON MFG. CO., LT'D., Toronto, Montreal, Winnipeg, Vancouver.
THE CARRITTE-PATERSON MFG. CO., LT'D., St. John, N. B., Halifax, N. S.

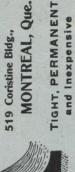


CIVIC NOTES



HYDRAULIC

MONTREAL, Que.





Wooden Stair-Wells are

FIRE TRAPS

Lea's Modern Method Stairs are

FIRE PROOF

Send for particulars

Canadian Urnamental Iron Co.

Room 243, Confederation Life Chambers

TORONTO, Ont.

JOSEPH LEA, Manager.

Phone Main 4562

EASTERN CANADA CIVIC NOTES.

OTTAWA, ONT. A refinery in connection with the Royal Mint, is to be

COBALT, ONT. The provincial board of health has approved of the plans for a waterworks system and sewage dis-

LONDON, ONT., Township has been added to the list of municipalities in which local option will be voted on. It is one of the most populous townships in Ontario.

OTTAWA, ONT. According to the new directory the population is 86,889, an increase of 1,556 in the year.

FORT WILLIAM, ONT. The Bank of

Ottawa is opening a branch here.

PETERBORO, ONT., has decided to build an isolation hospital and work

will be commenced at once.

LONDON, ONT. Petitions for fifteen miles of curbs and gutters have been

received already.
WINDSOR, ONT. The home-coming celebration held here recently were such a success that it has led to a revival of the roject of an annual fall fair. It is expected that steps will be taken to organize a society and pre-

pare for next year.
SARNIA, ONT. It is expected that the mains will be laid and natural gas ready for distribution by the first week in December.

PRESTON, ONT. The by-law for the extension of the waterworks was voted on and carried. The by-law for the purchase of the Weinberg property of eighty-two acres for the purpose of extending Speed Park was also voted on and was carried by a large majority. ST. JOHN WEST, N. B. The federal

public works department has completed borings on the site of the proposed new steamship berths and found the bottom favorable for dredging. Boring is now resumed at Courtenay Bay to determine the location of the proposed docks there.

SARNIA, ONT. The customs author-

tities have placed a female officer on duty at the local ferry wharf. PORT ARTHUR, ONT. The Roman Catholics have planned a new cathedral to be commenced early next year, the material to be purchased during

the fall and winter.

LONDON, ONT., has raised the dog tax from \$1 to \$2, and if not paid June 1st it will be \$3.

PORT ARTHUR, ONT. The Western Dry dock and Shipbuilding Company will build a dry dock and shipbuilding plant within the northern limits of the city costing about \$1,000,000. Nine other by-laws were passed, one giving a free site to the Stanworth-Martin Company, stonecutters. Others were for the extension of the sewer and water systems and double tracking the street railway. Waverley Park was selected as the site

for the Carnegie Library.

LONDON, ONT. The plans for the new sanitarium for consumptives to be erected by the London Health Association have been approved by the Provincial Secretary's department and the Provincial Architect. The new hospital will, it is said, excel any similar insti-

tutions in the country.

NOTRE DAME DE GRACE, QUE.
The Town Council has decided to install sewers on many of the streets. Water mains where not already instal-

HAMILTON, ONT. The Royal Bank intends to establish a branch here.

HULL, QUE. A soap company from Brantford is talking about coming here and says it is prepared to spend \$60,000 on buildings. It is asking what the town is prepared to do in the way of

exemption from taxes.

IBERVILLE, QUE. The Metropolitan
Bank has opened a branch here.

PETERBORO', ONT. The Council
has been asked for fire protection in their vicinity by a lumber company, whose mills were recently burned.

CAMPBELLTON, N. B. The Royal Bank of Canada has opened a branch

ANNAPOLIS, N. S. Nine ice piers are to be constructed above the town, and this should give an open port all the year round.

FINANCIAL Under the provision of The Village Act of Saskatchewan, the following villages are empowered to borrow money for permanent improvements: Govan, \$5,000, R. B. Langdon, Sec.-Treasurer, Govan; Kelliher, \$3,500, W. L. Lawler, Sec.-Treasurer, Kelliher; Balcawes, \$8,000, C. McMahon, Sec.-Treasurer, Balcawes.

The following Saskatchewan School Districts are empowered to borrow

Still Water School District, to borrow \$1,200 to purchase a site and erecting and furnishing a building, Hirain Needhan, Treasurer, Crane Lake.

Violet Hill School District, to borrow

\$1,600, to purchase a site, erect a building, etc., Bruce Girman, Treasurer, Swanson.

Vermillion School District, to borrow \$1,600, to purchase a site, erect a building, etc., Wm. A. Callin, Treasurer, Lawson.

Valleyfield School District, to borrow \$1,400, to erect and furnish a school house, Jesse Cooper, Treasurer, Lanigan.
Irene School District, to borrow \$1,600, to erect and furnish a school house,

Alex. Nivern, Treasurer, Wardenville.
Oladimir School District, to borrow
\$800, to erect a school house, Chas.
D. McGregor, Treasurer, Vouda.
Waldron School District, to borrow

\$2,500, to erect a school house, John H. Hilton, Treasurer, Waldron. Borszezow School District, to borrow

\$1,000, to erect and furnish a school Jos. Kuvylowiez, Treasurer,

Menzie School District, to borrow \$1,500, to erect and furnish a school house, J. Hughes, Treasurer, Central

GAMBLE & GLADWELL

ACCOUNTANTS, AUDITORS, ASSIGNEES, Etc.

MUNICIPAL AUDITING A SPECIALTY.

Mickleborough Block, Scarth Street, Regina.

P. O. BOX 869

TELEPHONE, 681

GEO. S. GAMBLE, Official Auditor.

Auditor. City of Regina.
Town of Moosomin.
Arcola

CHAS. V. GLADWELL, Chartered Accountant.



CIVIC NOTES



ROMAN STONE

is specified by the most fastidious Architects and recommended by the most careful Engineers. Made from pure white marble and machine tooled after casting, Roman Stone has proven itself a building material worthy to be used in the finest structures.

Send your plans for an estimate and write for descriptive literature.

The ROMAN STONE CO. LIMITED

50-100 Marlborough Avenue. TORONTO **Montreal Representatives:**

T. A. MORRISON & CO. 204 St. James Street

EDW. O. FUCE

Hon. Grad. Univ. Tor. (S.P.S.)

ONT. LAND SURVEYOR. CONSULTING CIVIL ENGINEER,

Municipal Engineering, Sewers, Waterworks, Sewage, Railways and Concrete.

GALT.

ONTARIO

TYPEWRITERS

REBUILT, NEW AND USED. EXPERT REPAIRING. DUPLICATORS.

CHAS. B. WALSH & CO.

General Typewriter Agency.

Phone Main 2775.

30 ST. JOHN STREET,

MONTREAL.

Architect's Instruments & Supplies

Transits, Levels, Compasses, Etc. Drawing Instruments, Boards, T Squares, Etc. Tracing Papers and Linens, Blue Print Papers, Profile and Cross Section Papers, Etc., Etc.

Write for complete catalogue to

R. WATTS & SON WINNIPEG.



A VENDRE

TAMCO" Pierre Concassée, de toutes dimensions. Gravois pour couvertures. Pierre artificielle "Roman." Brique pressée "Milton." Concasseurs de pierre. Pompes à Incendies, etc.

T. A. MORRISON & CE,

204 Rue St-Jacques,
Tél. Main 4532. Montréal.

CANADIAN LAWYER

Business Law, and Legal Forms. With simple instructions for transacting Business.

Cloth \$1.50. Postpaid on receipt of price.

The Carswell Company, Limited TORONTO, Canada

WESTERN CANADA CIVIC NOTES.

ROSTHERN, SASK. The German English institute is erecting a new school building this summer, costing

ELSTOW, SASK. An elevator with 30,000 bushels capacity is to be built immediately.

RIVERS, MAN. The fine Presbyterian church is now well under way.

LETHBRIDGE, ALTA. The Bank of Toronto has decided to open a branch here. This makes nine banks with property secured.

CALGARY, ALTA. The Sunday car by-law was carried by a vote of 587 to

ST. BONIFACE, MAN. The Council has decided to secure the services of an expert in connection with procuring an adequate and pure supply of water for the city. It is expected that the water will be secured either by leading it from the lakes south or east of the city or by digging wells.

REGINA, SASK. The population of

this city is estimated at 13,500.

CALGARY, ALTA., has a new park on three islands in the Bow River,

which are called St. George's, St. Andrew's, and St. Patrick's Islands.

NINETTE, MAN. The foundations for the new provincial sanatorium on Pelican Lake have been completed, and work on the superstructure will be commenced immediately. It is expected that the building will be ready for oc-

cupation by the beginning of November. RIVERS, MAN. The tender for the erection of a splendid \$12,000 school building has been accepted by the trustees and work has commenced already.
BRANDON, MAN. The City Council

has decided to put down block flooring on the overhead bridge instead of asphalt. Asphalt flooring would have reduced the carrying power of the bridge by 20 per cent.
VANCOUVER, B. C. The building

permits for July, total \$500,000. FARGO, SASK. The Great Northern

Railway started running a regular passenger train from Brandon, Man., to this place, the beginning of August. MILESTONE, SASK. The Canadian

Bank of Commerce has opened a branch

ENDERBY, B. C. A ladies' waiting

room is being added to the station.
EDMONTON, ALTA. The Y. M. C. A. has purchased a \$26,000 property for a new building

LETHBRIDGE, ALTA. The Merchants' Bank has bought a building site. The Bank of Toronto will prob-

ably open a branch here.

NORTH BATTLEFORD, SASK. A cement block factory has been started

REGINA, SASK., is calling for ten-

ders for a pipe line.
GRETNA, MAN. The Council has commenced the town improvements, first laying a cement sidewalk, six feet wide.

LETHBRIDGE, ALTA. The City Council has cancelled the exemption granted to the Ellison Milling Company, owing to the former breaking the agreement.

WETASKIWIN, ALTA. The Imperial Bank building has been started.

KELLIHER, SASK. The Bank of British North America has opened a branch here.

MELVILLE, SASK. The rate payers have agreed unanimously in asking to be incorporated as a town.

WASKADA, MAN. Public spirited citizens have secured 30 acres from the C. P. R. for a public park. The first payment has been made and the Town Council has taken over the remainder.

LETHBRIDGE, ALTA. The Eastern Townships Bank opened this branch in August.

INVERMAY, SASK. The street grading in the village is well under way and the building of sidewalks in all the principal streets is to be commenced. A considerable amount of money is being expended in draining.

NORTH VANCOUVER, B. C. It is reported that the Bank of Vancouver will open a branch here.

GLEICHEN, ALTA. The Traders Bank of Canada has opened a branch

VANCOUVER, B. C., is to have a factory for manufacturing ceiling and roofing materials.

CALGARY, ALTA.

The tunnel under the Bow River to carry the new water pipes across, has been completed under the direction of City Engineer Childs. It is 657 feet long, and the depth of the shaft is 40 feet, the tunnel being 30 feet below the bed of the river. The cost was based on \$8 per foot. So accurate was the plans that the divergence at the meeting point was less than half an inch. The contractor was Mr. Dunsmore, and not a single accident or hitch occurred in the work. A vein of coal was cut in the work.

LANIGAN, SASK.

The new Town Hall is now finished and is a credit to the district. The building is two-storey, the second floor is used as a hall which is 30 ft. x 74 ft., including a stage 15 ft. x 30 ft. The ground floor is divided as follows: A Council Chamber, Fire Hall, Officials Offices, Police Office, Cells and bed rooms, Janitors' office and rooms, Furnace and Fuel rooms.

The Town has added another mile of sidewalk to its number.

The Park has been beautified by trees on the outside of the race track, and the Athletic Grounds are all levelled off and have a city appearance and are a credit to the Council in charge. fine grand stand and Judges stand have been erected.

Because of complaints from residents of Chicago of the quality of the gas sold for illuminating purposes, the City Council has appropriated \$10,300 for the enforcement of the new ordinance requiring daily tests of the quality and pressure of gas supplied to consumers.

The Ideal Canadian

"He shall have in his bodily frame the erectness, the virility, the soundness of health which his country is so well fitted to produce. His eye will be clear and frank. He will have no marks on him of the profligate and debauchee. He will be an intelligent man, able to see round questions that are worth understanding, and when called on to give an opinion he will not be wanting. He will be a man on whom you can depend, a man of honesty, probity, fairdealing. He will be a courteous man, his courtesy not the servile imitation of the manners of other peoples, but the natural fruit of his own kindness and good sense."—Rev. Hugh Pedley, Montreal.

In the south of France is a concrete arch bridge known as the Pont du Gard, which was erected in the year 56 B. C. The concrete in this was not composed of crushed stone or other small aggregate of the variety now employed in concrete bridge work, but was of the old style, consisting of alternate layers of large and small stones, gravel, etc., and of cimentitious materials. Vitruvius describes the materials and methods in use before the Christian era, and other writers, like Alberti in 1485 and Polladio in 1570 accurately describe the method which "the ancients" (as they call them), employed "of using boards laid on edge and filling the space between with cement and all sorts of small and large stones mingled together." It is very improbable that the Pont du Gard would have withstood the rigors of climate of the Northern United States, but its actual state of preservation, as well as of many other specimens of ancient concrete work, proves that if modern work is honestly executed, it will many times outlast any reasonable bond period, so that a very small yearly sinking fund per cent, is all that is required for properly designed and erected concrete. — Cement Age, New York.

MONTREAL. The St. John the Baptist celebration this year was a tremendous affair, and occupied several days. A procession of enormous size, with many allegorical cars, was a leading feature. A statue of Lafontaine was unveiled in the park called by his name. Between 15,000 and 18,000 visitors came in by the various railways.

KINGSTON, ONT. It is proposed to advance the Firemen's wages by twenty-five per cent.

PORT ARTHUR, ONT. The City has arranged to pay damages to the families of the three railway men who were killed last year by a wash-out from the bursting of the Current River reservoir. They have settled the three cases for \$3,300 and costs, and the cases have been withdrawn.

A recommendation to reduce the number of John streets in London was to come before the L. C. C. Some years ago it was said that there were 80 John streets in London alone.

The Berlin police administration, convinced that many crimes can be best traced by women, is establishing a corps of women detectives. Ten have already been enrolled. Some of them are mere girls. They will henceforth be employed wherever it is likely that feminine intuition will be useful.

The police force on upper Fifth avenue, New York City, has come to be known as the "society squad." Its main function seems to be to protect society women from beggars and panhandlers.

"PUBLIC WORKS."

A QUARTERLY ILLUSTRATED RECORD

of
PUBLIC WORKS,
AT HOME AND ABROAD

The only publication of its kind devoted to Civil Engineering in its relation to Governmental and Municipal enterprises, or to undertakings which bear upon the work of officials in construction departments.

Price one shilling, Annual Subscription, five shillings, post free, United Kingdom or Abroad, Vols. I. to V. are obtainable, five shillings each, net: post free United Kingdom; or six shillings and six pence, Abroad.

PUBLISHED FOR THE
CIVIL ENGINEERING PRESS

BY THE

ST. BRIDE'S PRESS, LIMITED,

24 BRIDE LANE, FLEET ST.,

LONDON, E. C. ENGLAND

YPEWRI

The London, Eng., County Council is considering the construction of a boulevard from Paddington to Tinsbury Circus, a distance of 4 1-2 miles.

A movement is on foot in the Northwestern Provinces towards public ownership of the elevators, and the Premiers of the three Provinces, Manitoba, Alberta and Saskatchewan, have had a conference on the subject.

Within two years since the great earthquake which undid San Francisco

that heroic city has put \$100,000,000 into building operations, of which, according to trustworthy statements, all but \$4,000,000 came from local sources.

Lately a new American carriage and a large wagon have been imported in Matamoras, Mexico. This is the only wagon in the city, all hauling being done by the old-fashioned heavy two-wheel carts.

Southend, Eng., claims the longest pier in the country. It extends 6,600 feet into the mouth of the Thames.

MADE IN THE WEST

Save freight and get higher grade castings by purchasing your small and

LARGE WATER VALVES

from us.

Special attention given to all Municipal machine shop and foundry work.

WRITE US

Calgary Iron Works, Ltd.

Fire Alarm Repeater for Sale

The City of Winnipeg invites offers for One 5 Circuit Gamewell Automatic Fire Alarm Repeater. This repeater is in perfect running order and was of necessity discarded owing to the growth of the system exceeding its capacity.

Further information may be obtained from F. A. Cambridge, City Electrician, Winnipeg. 30 stesshow

Address offers to

M. PETERSON,

Secretary, Board of Control, August 27th, 1909. Winnipeg.

PERSONAL.

Mr. Frank Chappell, C. E., has been appointed Town Engineer and waterworks superintendent of Oshawa, Ont. Mr. Chappell served a five years' course in Mechanical Engineering, and studied civil engineering and surveying at University College, South Wales. He has had experience in the service of the Grand Trunk Ry at Montreel and her Grand Trunk Ry. at Montreal, and has just completed a course in surveying and municipal engineering at MeGill

University.

Detective Rider, who has been in the London, Ont., force since 1876, has

Ex-Mayor Andrew H. Baird, Paris, Ont., is dead. He was born in Mon-

Senator Perley, whose sudden death announced, commenced his public life in municipal work, having been for seven years a member of the Municipal Council of Sunbury, N. B.

Chief constable English, Calgary,

Alta., has resigned.

Ex-Mayor G. O. Clavel, Port Arthur, Ont., died very suddenly on the 12th

Ex-Mayor James Reilly, one of the founders of Calgary, Alta., died in Victoria, B. C. The funeral took place in Calgary, and was public and largely attended.

Mr. James Shaw, Chief Electrical Engineer of the C. P. Ry., and Mr. W. R. Warren, Engineer of the Saskatchewan Government Telephones, have been elected associate members of the Institute of Electrical Engineers, London,

Ald. Church has been appointed the representative of the Toronto City Council on the Executive of the Great

Lakes and St. Lawrence Navigation Improvement Association.

Mr. Henry Holgate, C. E., (of Messrs. Ross & Holgate, Montreal), has been called in as expert by the Quebec Pridge Commission.

Bridge Commission.

Ald. W. H. Mannarey, Calgary, Alta., has been appointed License Inspector

of the City.

Mr. Jno. T. Hall, Publicity Commissioner of Medicine Hat, Alta., has been elected permanent secretary-treasurer of the Associated Boards of Trade of Western Canada.

Ex-Mayor Cousins, Medicine Hat, Alta., has been elected President of the Associated Boards of Trade of Western

Associated Boards of Trade of Western | Street.

Canada.

Alderman John Banks, who died at Folkestone, Eng., recently, was a member of the town council for 52 years, and was mayor six times.

Express, or Post Office Order.

To Induce Subscribers

We will give

4 Months Free

and refund your money if then unsatisfied.

Everyone interested in municipal and telephone development, cannot be without this paper. It is invaluable, and is the only record of this Canadian work.

It is absolutely necessary to municipal and telephone officials.

We have only the very best articles, and being official, print matter that no other paper can obtain.

Send along your order. If not satisfied, it will cost you nothing. We anticipate satisfaction, and take all the chances.

THE CANADIAN MUNICIPAL JOURNAL

Royal Trust Building, MONTREAL, Que.

SEPT	TEMBER,	The sase	TWO KOTKERS	1	9	0	

HAPLEAU, ONT, has sold to

Enclosed please find \$1.00, for which send THE CANADIAN MUNICIPAL JOURNAL for one year, including balance of this year free.



FINANCIAL



DEALERS IN HIGH GRADE BONDS & DEBENTURES

CORRESPONDENCE SOLICITED

DOMINION SECURITIES

CORPORATION, LIMITED MONTREAL, LONDON, TORONTO

ENG.

ONT.

P. DODS

Accountant, Broker, and Financial Agent.

31 Canada Life Building,

WINNIPEG.

ST. VITAL, MAN. The by-law authorizing the sale of \$6,000 school debentures for the construction of a new school, was carried without one oppos-

PETERBORO, ONT. Two by-laws were passed recently: one to raise \$32, 500 to build a reinforced concrete bridge over the river at Smith Street, was carried by a majority of 139; the other to raise \$21,500 for street extensions and filling the waterfront, by a majority of 148.

SPERLING, MAN. A by-law to raise \$13,000 for a consolidated school building was defeated.

CHAPLEAU, ONT., has sold to Messrs. G. A. Stimson and Co., \$31,000 township debentures, bearing interest at 5 per cent. and payable in 30 annual instalments.

WESTMINSTER, B. C., has sold to Messrs. G. A. Stimson & Co., \$5,000 5 per cent. school debentures, payable in 30 years.

TRENTON, ONT. The assessment roll for 1909 shows an increased assessment over last year of about \$75,000. The increase compared with six years ago is over \$400,000.

LONDON, ONT. The Council has passed a by-law to expend \$123,700 for the artesian wells, pumping plant and new mains. The work of constructing the plant will commence at once and the whole plant will be ready this fall.

RED DEER, ALTA., has sold to Messrs. G. A. Stimson & Co., \$4,500 de-bentures in two issues. One of \$3,000 for the purpose of building a police station, maturing in twenty years; and the other of \$1,500 debentures issued for local improvements, due in 5 instalments. Both issues bear interest at 5 per cent.

BROCKVILLE, ONT. The by-law calling for an expenditure of \$16,000 for the construction of concrete bridges in the town was defeated by a majority of 45.

EDMONTON, ALTA. The tax rate on real estate for the year 1909 will be 17 1-2 mills on the dollar. The estimates for the year are about \$420,000.

BRACEBRIDGE, ONT. The by-law to raise \$65,000 for the purpose of developing additional water power at Wilson's Falls, two miles away, was submitted and carried by a majority of over 100. This will be a municipal enterprise in addition to the plant already in operation, and will place the town in a position to accommodate new industries.

PORT ARTHUR, ONT., has sold to Messrs. Wood, Gundy & Co., \$161,628 debentures. The bonds mature as follows: \$66,228, 5 per cent., end of 30 years; \$40,000, 4 1-2 per cent., end of 30 years; \$55,400, 5 per cent., end of 20 years; they are issued for local improvements and the greation of a collimate present of a collimate property and the greation of a collimate present and the greation of a collimate property and the greation of a collimate pr provements and the erection of a collegiate institute.

ENDERBY, B. C. The price realized on the sale of the street improvement debentures was \$102.90.

PORT ARTHUR, ONT. The by-law granting a bonus of \$25,000 a year for ten years and the grant of a free site to the Western Drydock and Shipbuilding Company, was passed by a vote of 816 to 47. Among the other by-laws passed at the same time was one to purchase the Bell Telephone plant and equipment, for \$3,500.

PARRY SOUND, ONT. The bonus bylaw to loan \$20,000 to the Algoma Chemical Co. for a wood alcohol plant was voted on and carried by 425 to 19.

VEGREVILLE, ALTA., has sold \$70, 000 6 per cent. debentures due in 10

WINDSOR, ONT., has sold \$39,000 4 1-2 per cent. 20 and 30 instalment de-

ST. LOUIS, QUE., has sold \$600,000 4 1-2 per cent. debentures.

STRATHCONA, ALTA., has sold \$162,308.58 4 1-2 per cent. 8, 10, 20, 30 and 40 year local improvement deben-

WOOD, GUNDY & Co.

6 KING ST. WEST, TORONTO Purchasers of

MUNICIPAL DEBENTURES

We especially invite correspondence.

BUYERS

MUNICIPAL DEBENTURES

Correspondence Solicited

Steiner, Dunlop & Co.

LAWLOR BLDG., - TORONTO

ADELAIDE, ONT., has sold \$1,900 5 per cent. school debentures.

RED DEER, ALTA., has sold \$3,000 5 per cent. five-instalment debentures to build a police station; and \$1,500 5 per cent. five instalment local improvement debentures to Messrs. G. A. Stimson & Co.

FOREST HILL, SASK., has sold \$1,110 5 1-4 per cent. debentures maturing in 10 years.

WEYBURN, SASK., has sold \$75,000 5 per cent. 40-year debentures.

WOODLAND, SASK., has sold \$6,000 5 per cent. school debentures due in 20 instalments.

ST. CLAUDE, MAN., has sold \$1,600 5 1-2 per cent. school debentures due in

BUSINESS FOUNDED 1795

American Bank Note Company

ENGRAVERS and PRINTERS

Municipal Debentures and Cheques A SPECIALTY

Head Office, 224 WELLINGTON STREET, OTTAWA. Branches: HALIFAX, MONTREAL, TORONTO, WINNIPEG.

The Bank of Toronto

TORONTO BRANCH Cor. Church and Wellington Sts.

W. R. WADSWORTH, Manager.

W. M. BEGG, Asst. Manager.

HEAD OFFICE, TORONTO, Canada.

INCORPORATED 1855

Authorized Capital \$10,000,000.

Paid Up Capital \$4,000,000. Reserve Fund \$4,500,000.

DIRECTORS:

William H. Beatty, President. W. G. Gooderham, Vice-President. Robert Reford D. Coulson Hon. C. S. Hyman, Robert Meighen William Stone John Macdonald A. E. Gooderham, Nicholas Bawlf Duncan Coulson, Gen. Man. Joseph Henderson, Asst Gen'l Man. Thomas A. Bird, Inspector.

Ontario

BRANCHES

Toronto, (8 offices) Allandale Barrie Berlin Bradford Brantford Brockville Burford Cardinal Cobourg Colborne Coldwater Collingwood	Dorchester Elmvale Galt Gananoque Hastings	Preston St. Catharines Sarnia Shelburne Stayner Sudbury	Wallaceburg Waterloo Welland Wyoming Sask. Langenburg Wolseley Yorkton Quebec Montreal (3 offices) Maisonneuve Gaspé	St. Lambert Manitoba Cartwright Pilot Moumd Portage la Prairie Rossburn Swan River Winnipeg British Columbia Vancouver
--	--	--	--	---

SAVINGS DEPARTMENT AT ALL BRANCHES

Bankers:—London, England—The London City and Midland Bank Limited. Germany—Dresdner Bank and Branches. France—Credit Lyonnais. United States of America—New York, N.Y., National Bank of Commerce. Chicago, Ill., First National Bank. St. Louis, Mo., National Bank of Commerce. Pittsburg, Pa., Keystone National Bank. Cleveland, Ohio, First National Bank and Central National Bank. Buffalo, N.Y., Manufacturers and Traders National Bank. Boston, Mass., National Bank of Commerce.

Capital Authorized Capital, (paid-up) Reserve Fund -

DIRECTORS:

D. R. WILKIE, President. Hon. R. JAFFRAY, Vice-President. Wm. Ramsay of Bowland Elias Rogers, J. Kerr Osborne.
Charles Cockshutt, Peleg Howland, Wm. Whyte, Winnipeg,
Cawthra Mulock, Hon. Richard Turner, Quebec,
Wm. Hamilton Merritt, M.D., St. Catharines.

BRANCHES

HEAD OFFICE.

TORONTO.

Ontario	London Marshville	Quebec	Alberta
Amherstburg Belwood Bolton	New Liskeard Niagara Falls Niagara on the	Montreal Quebec	Athabaska Landing Banff Calgary
Brantford Caledon East Cobalt	Lake North Bay Ottawa	Manitoba	Edmonton Red Deer Strathcona
Cochrane Elk Lake Essex	Palgave Port Arthur Port Colborne	Brandon Portage la Prairie Winnipeg	Wetaskiwin
Fergus Fonthill Fort William	Port Robinson Ridgeway Sault Ste. Marie	Saskatchewan	Arrowhead Cranbrook Golden
Galt Gowganda Hamilton	South Woodslee St. Catharines St. Thomas	Balgonie Broadview	Kamloops Michel Moxie
Harrow Humberstone Ingersoll	St. Davids Thessalon	Hague North Battleford Prince Albert	Nelson New Michel
Kenora Listowel	Toronto Welland Woodstock	Regina Rosthern Wilkie	Revelstoke Vancouver Victoria
	CAVINICE	DEDADTER	· · · · · · · · · · · · · · · · · · ·

SAVINGS DEPARTMENT.

Interest allowed on deposits at all Branches of the Bank throughout the DOMINION OF CANADA.

Drafts, Money Orders and Letters of Credit Issued Available in Any Part of the World.

Agents in Great Britain.—Lloyds Bank Limited, and the Commercial Bank of Scotland, Limited, and Branches with whom money may be deposited for transfer by letter or cable to any part of Canada. part of Canada.

Agents in United States. - New York, Bank of the Manhattan Company; Chicago, First National Bank; San Francisco, Wells, Fargo Nevada National Bank.

Agents in France.—Credit Lyonnais. Agents in Germany. - Deutsche Bank.

SALE OF BONDS FROM 21ST JULY TO 20TH AUGUST

PLACE	53			6		SA	LES		
	Population	Assessed Value	Debenture Debt.	Sinking Fund	Amount	Years to run	Interest	Purpose	PURCHASER
Chapleau Thp., Ont New Westminster, B. C Red Deer, Alta do Port Arthur, Ont do do Vegreville, Alta Windsor, Ont St. Louis, Que Strathcona, Alta Weyburn, Sask Burnaby, B. C Hanley, Sask Vaunder, Sask	2,000 13,576 1,000 15,417 25,000 5,000 2,000	\$160 877 6,695,119 7,409,880 	\$897,331	\$176,785	\$31,000 5,000 3,000 1,500 66,228 40,000 55,400 70,000 600,000 162,309 75,000 150,000 16,000 12,000	30 Inst. 30 20 5 Inst. 30 30 20 10 Inst. 20/30 Inst. 40 50 30 10	55 55 55 55 41/2 56 41/2 41/2 55 55	School Police Station L. I. L. I. College L. I. School Roads School	G. A. Stimson & Co do do do Wood, Gundy & Co do do
Vaunder, Sask Carleton Co., N. B. Invernay, Sask. Delta, Man Hawkesbury, Ont Madawaska Co., N. B. Gauthier, Sask Sydney Mines, N. S. Killarney, Man	4,152	448,960	118,000		26,000 1,000 10,000 9,400 12,000 12,000 35,000 10,000	12,13,19 Inst. 15 Inst. 6 10 Inst. 17 Inst. 10 Inst. 20 20 Inst.	4 6 5 6 41/2 5 41/2 5	Roads Roads Roads Schools	G. A. Stimson & Co

FINANCIAL—(Continued)

ZURICH, SASK., has sold \$1,000 6 per cent. school debentures, due in 1919.

WESTERHAM, SASK., has sold \$1,000 6 per cent. school debentures, due in 1919.

MOHYLA, SASK., has sold \$1,000 6 per cent. school debentures due in 1919.

LEMBURG, SASK., has sold \$800 6 1-2 per cent. school debentures due in 1919.

BRANDON, MAN. The rate of taxation for the coming year is 20 mills, the same as 1909.

BURNABY, B. C., has sold \$150,000 5 per cent. debentures, due in 50 years issued for road improvement.

RAVENSBERG, SASK., has sold \$1,200 5 1-2 per cent. 10-year debentures.

CHARLOTTENBERG, SASK., has sold \$500 5 1-4 per cent. school debentures due in 10 years.

BALROBE, SASK., has sold \$1,000 5 1-2 10-year school debentures.

WESTMINSTER TOWNSHIP, B.C., has sold \$5,000 5 per cent. 30-year school debentures to Messrs. G. A. Stimson & Co.

BLACK DIAMOND, SASK., has sold \$1,800 5 1-4 per cent. school debentures, due 1919.

WILEY, SASK., has sold \$1,200 5 1-2 per cent. 10-year school debentures.

BORSZEZOW, SASK., has sold \$1,000 5 1-2 per cent. 10-year school debentures.

BLACKFALDS, ALTA., has sold \$3,500 debentures to a local investor.

HANLEY, SASK., has sold \$16,000 5 per cent. school debentures, due in 30 years.

WALL LAKE, SASK., has sold \$700 5 1-2 per cent. 10-year school debentures.

CHAPLEAU, ONT., has sold \$31,000 5 per cent, debentures to Messrs. G. A. Stimson & Co., due in thirty annual instalments.

LEATHER RIVER, SASK., has sold \$1,400 5 1-2 er cent. 10-year school debentures.

VANNDER, SASK., has sold \$12,000 5 per cent. school debentures, due 1919.

EYEBROW, SASK., has sold \$4,000 6 per cent. 15-year debentures.

HAWARDEN, SASK., has sold \$2,500 5 1-4 per cent. debentures, due in 1919.

BROWNLEE, SASK., has sold \$4,000 6 per cent. 15-year debentures.

ELBOW, SASK., has sold \$4,000 6 per cent. 15-year debentures, and \$12,000 5 1-2 per cent. 20-year school debentures.

TUGASKE, SASK., has sold \$2,000 6 per cent. 15-year debentures, and \$3,000 5 1-4 per cent. school debentures, due 1919.

ST. JOHN, N. B. The tax rate for the coming year is \$1.98, an increase of 12 cents over last year.

AMARANTH, ONT. The by-law to raise \$7,800 for the purpose of erecting bridges within this township was submitted to the ratepayers and carried by a majority of 87. The vote was a very small one.

CARLETON COUNTY, N. B., has sold \$26,000 4 per cent., 12, 13 and 19 instalment debentures.

INVERMAY, SASK., has sold \$1,000 6 per cent., fifteen instalment debentures, issued for sidewalks and road grading.

DELTA, MAN., has sold \$10,000 5 per cent. debentures, due in 1915.

HAWKESBURY, ONT., has sold \$9,400 6 per cent. 10 instalment debentures to Messrs. G. A. Stimson & Co.

ST. VITAL, MAN., has sold \$2,500 5 per cent. 7-year debentures to Messrs. G. A. Stimson & Co.

PICHE, SASK., has sold \$7,000 5 1-2 per cent. school debentures due in 10 instalments.

MADAWASKA COUNTY, N. B., has sold \$12,000 4 1-2 per cent. debentures payable in 17 instalments.

GAUTHIER, SASK., has sold \$12,000 5 per cent. school debentures, payable in 10 instalments.

SIDNEY MINES, N. B., has sold \$35,000 4 1-2 per cent. 20-year debentures.

LA FORTUNE, MAN., has sold \$800 6 per cent., 10 instalment debentures to Messrs. G. A. Stimson & Co.

KILLARNEY, MAN., has sold \$10, 000 5 per cent. 20 instalment municipal building debentures.

WILMOT and WICKLOW, N. B., have sold \$7,000, 5 per cent. school debentures, due in 10, 15, 20 and 25 years.

MOOSE JAW, SASK. The City Council has placed the rate of taxation at 15 1-2 mills.

MELVILLE, SASK. A by-law authorizing the expenditure of \$6,000 for drainage was passed.

WYNYARD, SASK. The property is assessed at \$173,000.





BLACKBURNGround Clamps

Are Adjustable

No. A1 for Telephone
 Circuits

Nos. 3 and 4 for Power
 Circuits

They can be attached in one minute.

They are approved and the price is right.

MANUFACTURED BY

BLACKBURN SPECIALTY CO. 1400 W. 3rd Street, Cleveland, Ohio

SPECIALTY SPECIAL SPEC

WATERWORKS

A. LEOFRED

(Grad. LAVAL and McGILL)

CIVIL ENGINEER

39 St. John St., - QUEBEC

PATENTS

C. C. COUSINS

PATENT SOLICITOR & EXPERT (formerly of Washington, D.C.)

Suite 506, New York Life Bldg
MONTREAL, Can.



THE MERCHANTS' BANK

OF CANADA

MONTREAL

Capital \$6,000,000. Reserve Fund and \$4,400.997 undivided Profits Board of Directors:

President: Sir H. Montagu Allan; Vice-Pres.: Jonathan Hodgson, Esq. Thos. Long, Esq., Hugh A. Allan, Esq. C. F. Smith, Esq., C. M. Hays, Esq. Alex. Barnet, Esq., F. Orr Lewis, Esq., K. W. Blackwell, Esq.

E. F. Hebden, General Manager. T. E. Merrett, Sup't of Branches and Chief Inspector. LIST OF BRANCHES AND AGENCIES

Oı	ntario	
Acton	Lucan	
Alvinston	Lyndhurst	
Athens	Markdale	
Belleville	Meaford	
Berlin	Mildmay	
Bothwell	Mitchell	
Brampton	Napanee .	
Chatham	Oakville	
Chatsworth	Orillia	
Chesley	Ottawa	
Creemore	Owen Sound	
Delta	Parkdale	
Eganville	Perth	
Elgin	Prescott	
Elora	Preston	
Finch	Renfrew	
Fort William	Stratford	
Galt	St. Eugene	
Gananoque	St. George	
Georgetown	St. Thomas	
Glencoe	Tara	
Gore Bay	Thamesville	
Granton	Tilbury	
Hamilton	Toronto	
Hanover	"Parliament St.	
Hespeler	Walkerton	
Ingersoll	Watford	
Kincardine	West Lorne	
Kingston	Westport	1
Lancaster	Wheatley	
Lansdowne	Williamstown	
Leamington	Windsor	
Little Current	Yarker	
Tondon		

British Columbia Sidney Victoria Vancouver Montreal — (Head Office) St. James St.

"1255 St. Catherine St. East.
"320 St. Catherine St. West.
"1330 St. Lawrence Roul.
Beauharnois Sherbrooke
Lachine St. Agathe
Quebec— St. Jerome
"St. Sauveur St. Johns
Rigaud St. Jovite
Town St. Louis
Manitoba
Brandon Neepawa

Brandon Carberry Neepawa Oak Lake Portage la Prairie Russell Gladstone Griswold Macgregor Morris Souris Winnipeg Napinka

Saskatchewan Arcola Carnduff Gainsborough Maple Creek Melville Oxbow Unity Whitewood Alberta Medicine Hat

Acme Calgary Camrose Carstairs Okotoks Olds Red Deer Sedgewick Castor Daysland Stettler Tofield Edmonton Lacombe Trochu Vegreville Leduc Lethbridge Viking (Meighen) Wainwright Mannville Wai Wetaskiwin

New York Agency: 63 and 65 Wall St.
Interest at most favorable current rates on Savings Bank Accounts.
Commercial Letters of Credit issued, available in China, Japan, and other

foreign countries. Letters of credit issued to travellers payable in all parts of the world.

MUNICIPAL

DEBENTU

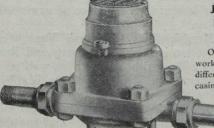
PURCHASED

If you have some debentures to market do not fail to write us for an offer. We deal almost exclusively in this class of security and have excellent facilities to handle any issue.

Wm. C. Brent

Canada Life Building, TORONTO.

Niagara and American Water Meters



JEWEL BEARING INTERMEDIATE **GEARS**

One model of high grade working parts supplied in different styles of outer casings and fitted with either standard or straight reading dials.

BUFFALO METER CO.

290 TERRACE.

Established 1892

BUFFALO, N. Y.

BANK OF MONTREAL

INCORPORATED BY ACT OF PARLIAMENT. CAPITAL (all paid up) \$14,400,000.00 12,000,000.00 UNDIVIDED PROFITS......

HEAD OFFICE—MONTREAL

BOARD OF DIRECTORS

RT. HON. LORD STRATHCONA AND MOUNT ROYAL, G.C.M.G., G.C.V.O. Honorary President.

HON, SIR GHORGE DRUMMOND, K. C. M. G., C. V. O., President.
SIR EDWARD CLOUSTON, BART. Vice-President.
SIR WILLIAM MACDONALD E. B. GREENSHIELDS, ESC. E. B. GREENSHIELDS, Esq. R. B. Angus, Esq.

JAMES ROSS, ESQ. R. HOSMER, ESQ.

R. B. ANGUS, ESQ.

SIR THOS. SHAUGHNESSY, K. C. V O. DAVID MORRICE, ESQ. HON. ROBT. MACKAY.

SIR EDWARD CLOUSTON, Bart., General Manager. A. MACNIDER, Chief Inspector and Superintendent of Branches.
H. V. Meredith, Asst.-Gen. Manager, and Manager at Montreal.
C. Sweeny, Superintendent of Branches, British Columbia,
W. E. STAVERT, Super. of Branches, Maritime Provinces.
F. J. Hunter, Inspector N. West and Brit. Columbia Branches,
E. P. Winslow, Inspector, Ontario Branches,
D. R. Clarke, Inspector, Maritime Provinces and Newfoundland Branches.

BRANCHES:

135 IN CANADA.

IN NEWFOUNDLAND:

JOHN'S ST. JOHN'S - BANK OF MONTREAL BIRCHY COVE, BAY OF ISLANDS, - BANK OF MONTREAL

IN GREAT BRITAIN:

LONDON, BANK OF MONTREAL, 47 Threadneedle St., E. C., F. W. TAYLOR, Manager.

IN THE UNITED STATES:

NEW YORK, R. Y. HEBDEN, W. A. BOG, and J. T. MOLINEUX. Agents, 31 Pine Street.
CHICAGO, BANK OF MONTREAL, J. M. GREATA, Manager.
SPOKANE, WASH., BANK OF MONTREAL.

IN MEXICO:

MEXICO, D. F., BANK OF MONTREAL, T. S. C. SAUNDERS, Manager.

WINNIPEG INVESTMENT CO.

Negotiate, Purchase Municipal Bonds, Debentures, Etc. Mortgages and agreements of sale purchased.

> JAMES ED. BETTES, Sec.-Tres. 413 MAIN STREET

Bonds Bought from MUNICIPALITIES

A. P. Lesperance, Manager

City and District Savings Bank

MONTREAL

LIGHTHALL & HARWOOD

BARRISTERS, SOLICITORS,

ADVOCATES, ETC. - CHAMBERS

New York Life Building, - Place d'Armes MONTREAL

W. D. LIGHTHALL, K. C. M.A., F.R.S.L., etc

C. A. HARWOOD,

CABLE ADDRESS! " LIGHTHALL "

ACCOUNTANT TRUSTEE

(Member, Special Committee of the U. C. M. on Uniform Municipal Accounting)

Municipal Audits a Specialty

Municipal Bonds Negotiated Estates Managed

180 St. James Street, MONTREAL

Equipment and Engineering

Original Description of Municipal and Telephone Machinery and Appliances. Engineers' Notes.

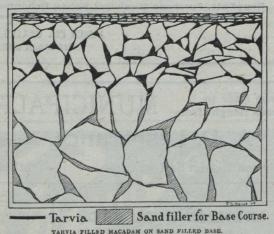
Automobile=Proof Roads

The process of using a refined tar for the prevention of the formation of dust on macadam roads under automobile traffic, has passed the debatable stage, and the only difference among road engineers now is as to some of the refinements of the process. Machines are now being imported for the spreading of the tar so as to save labor, and various counties and cities no doubt soon will be in possession of complete tarring apparatus so that they can keep forces at work through the entire season.

Another field of study is presented in the choice of tar, and several engineers have published careful studies based on analyses of the proportion of bitumen in the material for the purpose of discovering which grade gives the best service under the varying conditions.

In this country as elsewhere, it was early demonstrated that ordinary crude tar was not satisfactory for use on roads because it varied so much in chemical character that uniformity of results could not be guaranteed. Tar taken from the same gas works would vary widely from day to day. A certain amount of refining was necessary, and this prepared coal tar has been standardized in America under the name of Tarvia, and the use of tar under this name frees the engineer from all trouble and responsibility in connection with difficult commercial analyses of the material.

For different types of work the density of the tarvia necessarily varies according to the size of the voids in the macadam. The mission of the tarvia is to fill all voids and solidify them to a plastic, rubber-like consistency, in which the stone is so firmly embedded that the automobile tires cannot tear it loose. (See illustration.)



In building a new road the voids will of course be very large, and accordingly the very dense Tarvia X is used, a material of such weight and density that it will hold the stone and bridge the large spaces in the ma-

torial

For a road which is being resurfaced with fine stone screenings, a tarvia of light consistence, namely Tarvia A, is used. It will penetrate readily into the smaller interstices of the screenings where Tarvia X could not be made to percolate.

For an old road where the interstices have been filled tight with dust, a still lighter grade of tarvia will be required, the material called Tarvia B, which can be used from a modified sprinkling eart and will soak into the fine pores of such a road and make a strong, durable bond.

Tarvia B is of course, the least expensive of the three applications. It requires only to be spread over the road like an oil, and expensive apparatus is not necessary. Tarvia A used with a new top layer of stone screenings is more effective because it goes deeper. Such application requires a steam roller and apparatus for heating as well as spreading the tarvia. It makes, however, a beautiful, smooth, durable road which resembles a sheet asphalt pavement in its appearance.

The Tarvia X treatment introduce the tarvia into the 1½ inch stone and is still more thorough than the Tarvia A treatment. A road built with Tarvia X will retain its evenness of contour regardless of the wear on the top surface, and the maintenance of the road will* for many years be confined solely to the top coat of fine

screenings. The durability of this top coat can also be

greatly prolonged by the use of Tarvia A.

The ideal method therefore in which to build an economical macadam road is to use Tarvia X in the construction and when after a year or two the surface begins to wear, to repair it with screenings combined with Tarvia A

Tarvia will make the road semi-plastic so that it yields slightly under the hammering of traffic instead of pulverizing as does the brittle plain macadam surface. In consequence the material that is put on the road stays there, being never pulverized by travel nor washed away by rain. The net result is large economies in maintenance.

It has been repeatedly demonstrated that it is actually cheaper to maintain a dustless tarviated road than a dusty untreated one.

Road-making Machinery Sales

The Municipality of Oak Bay, near Victoria, B. C., has recently purchased a 10-ton compound steam road roller, manufactured by Messrs. Ruston, Proctor & Co., of Lincoln, Eng., through their Canadian agents, Messrs. Mussens, Ltd.

The roller is of the very latest design, having all the most modern improvements; it is of the compound type, which is specially advantageous where heavy grades are

encountered and causes a noiseless exhaust.

Another good feature is the patent scarifier, which is attached to the roller itself, and is used for tearing up old macadam or for loosening the surface of new roads preparatory to rolling.

The District Municipalities of North Vancouver, B. C., have also just received a 10-ton compound Ruston, Proctor steam roller with scarifier as well as a powerful rock crusher, from Messrs. Mussens Limited.

The only effective and economical way to construct good and permanent roads is by utilising the proper machinery, and it is very gratifying to see that the different municipalities are realising this fact and are adopting a progressive policy in introducing really upto-date plant.

New Steel Tie and Splicing Wrench



The purpose of this wrench is to "tie in" the line wire to the in-

sulator. In practical use, the tie wire already bent in the customary U shape is slipped over the insulator with the open end of the U resting on the line wire; then one of the ends of the U is put through the hole in the eye, and the tool shoved back against the line wire. Then by a rotary movement of the wrench around the line wire, it curls the tie wire around the line wire in the form of a spiral. The other end of the U is then treated likewise, and the line is permanently fastened to the insulator. Linemen ordinarily do this work with pliers, but the wrench is a time saver, and make a clean solid job, and without danger of nicking the line wire. The splicing end is intended for use along with the splicing clamp. The ends of the wires to be connected are held with the splicing clamp, and the projecting end is caught with the shoulder of the wrench, and by turning the wrench around continuously, it will coil the wire tightly and evenly on the line wire, making a clean tight splice. Made for the following size wires for tying in with numbers 7 to 11 copper wire, and splicing numbers 4-6-8-9-10-12 iron wire, or for numbers 2-4, 6-8, 10-12, copper wire. The above wrench is 7 inches over all.

The Municipality of Oak Bay, which joins the City of Victoria, B. C., has just purchased a very complete and up-to-date rock-crushing plant from Messrs. Bayfield & Archibald, C. E., Vancouver, B. C., which was specially designed to suit the necessities of municipal work.

The plant consists of one of Hadfield & Jack's patent *solid steel rock breakers of the jaw type in conjunction with revolving screens, elevator and hoppers or small bins of steel plate fitted with sliding doors, through which the screened rock of different sizes is fed directly into carts alongside ready to be distributed wherever required. The whole combination is mounted on a truck composed of steel channels, steel axles five inches in diameter and heavy cast steel wheels, so that it may be hauled from place to place wherever there is rock to be crushed, and set to work again in a very short time.

The action of breaking, screening and loading is entirely automatic. The stone to be broken is fed by hand into the top of the jaw opening, which will take in pieces as large as 20 inches by 10 inches, and after being broken, discharges from the bottom opening of the jaws through a cast steel chute into the lower revolving screen. This takes out the dust and fine material, and the rest grees into the bottom of the glevator.

the rest goes into the bottom of the elevator.

The elevator consists of a heavy special rubber belt with pressed steel buckets attached at regular intervals and passing over cast iron drums on the top and bottom screen shafts. The material passing into the lower drum is caught by the buckets and carried to the top drum inside of which it is caught by a steel chute and discharged into the top screen. This screen has two sizes of perforations and the rock passing through these drops into the respective loading bins from which it shoots into the carts alongside. Pieces too large to pass through the perforations go over the end of the screen and drop back into the breaker with the fresh rock that is being fed to it.

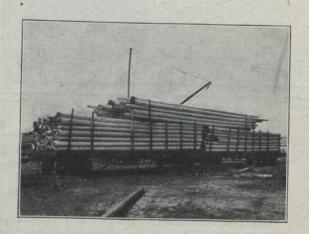
Power for driving the crushing plant is obtained from the steam road roller.

A Lasting Pole

Good quality in a pole for electric work, either telephone, telegraph or street railway, means that it does not need replacing like a poor one does, with a consequent saving in labour and the less frequent disturbance of the ground. The Valentine-Clark Co. subject every pole to three rigid inspections before they are shipped to customers.

Metal Culverts

The increased demand for metal culverts shows their real value, but every municipality should be sure that they purchase only the best, made of metal that will last, and protected by a reliable guarantee. The Alberta Metal Culvert Company, of Calgary, Alta., has made sales this season which prove that a large demand is springing up. They shipped to the Town of Wanton, Sask., for the L. I. D. 8224 orders which have totalled over \$1,000, in sizes ranging from 12 inches to 3 feet diameter. The Southern Alberta Land Company is taking contracts that will amount to several miles, and a new feature has been added for irrigation purposes in a gate valve that will suit the slope of any embankment. Another new feature is the use of the culverts for grain bins, and among many smaller ones, one has been supplied in Raymond which holds 1,200 bushels. They strongly recommend the highest quality of iron for grain bins, as they are really so much more economical.



Mr. William J. Tewksbury has taken the position of General Shop Superintendent with the Automatic Electric Company. Mr. Tewksbury has for more than eight years had experience as machinist, foreman and shop superintendent, embracing the employment by the Diamond Sewing Machine Company, Adams and Westlake, and the Chicago Stamping Company, up till 1885 when he entered the employ of the Western Electric Company in their telephone department. He was for more than ten years chief inspector of the entire output of the Chicago factory, and in March, 1908, he was made General Foreman of the machine and assembling departments. He will have full charge of the mechanical end of manufacturing and inspecting the output of the Automatic Electric Company. He is regarded as one of the most experienced and best equiped factory superintendents in the United States.

The firm of Messrs. Gamble and Gladwell, accountants, of the city of Regina, Sask., have been appointed by the town of Yorkton, Sask., to conduct a special audit of the books of that town.

MUNICIPAL MACHINERY AND EQUIPMENT

CARRIED IN STOCK

Champion Rock Crushers Champion Road Graders Champion Road Rollers

Crushers Wheeled Scrapers
Graders Drag Scrapers
Rollers Buck Scrapers
Wheel Barrows, Road Plows and Tools.

Dump Wagons Dump Carts Dump Cars

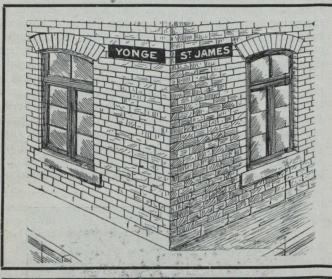
MARION DREDGES FOR DRAINAGE, DYKING AND IRRIGATION SERVICE.

London Concrete Machinery Co's.

Face down Block Machines, Cement Mixers, Cement Brick Machines
Tile Moulds, Cement Worker's Tools. Contractors', Loggers' and Railroad Supplies.

A. G. BROWN & CO.

CALGARY, Alta. P. O. Box 228 Phone 2002 1048 Westminster Ave, VANCOUVER, B. C.
Phone 4804



Enamelled Steel Street Names

LAST A LIFETIME.

Made in Canada by

The Thos. Davidson Mfg. Co., Limited.

Selling Agent, J. N. WARMINTON,

207 St. James St., Montreal.

43 Scott St., Toronto.

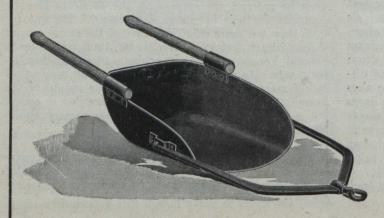
THE MAN AT THE TOP

is the man who reads THE MAGAZINE OF COMMERCE—the only publication in this country which appeals exclusively to the BUSINESS EXECUTIVE. ¶ There are numerous publications appealing to particular trades—and doing it very well—but The Magazine of Commerce is the ONLY publication which appeals to the heads of business houses in ALL branches of trade. ¶ If you have something to sell to the Merchant and the Manufacturer, in this country or abroad, and you desire to advertise the fact in a publication which can be relied upon to reach THE MAN AT THE TOP, get a specimen copy and advertisement rates (for Home and Special Export Editions)

from THE MANAGER-

The MAGAZINE OF COMMERCE

155-6 CHEAPSIDE, LONDON, E. C.



WE STOCK

Columbus Slushers and Wheel Scrapers.

Agents for NATIONAL GRADERS

Write us for quotations.

Dominion Equipment & Supply Co.

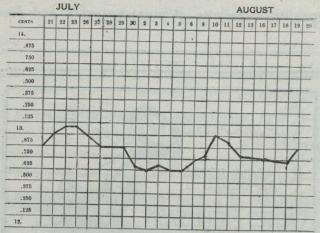
354 Main St.

Warehouse: McDermott St. East.

Metal Market

Closing prices, in cents per lb., of Electrolytic Copper and Lead, in New York, in quantities of not less than 50,000 lbs.





Highest this year, 14.25 cents per lb. Lowest this year, 12.125 cents per lb.

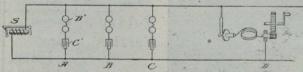
Highest point reached in last 5 years, 25.375 cents

Lowest point reached in last 5 years, 11.75 cents per 1b.

LEAD

		JU	LY														A	UG	US	T			
CENTS	21	22	23	26	27	28	29	30	2	3	4	5	6	9	10	111	12	13	-16	17	18	19	9
5.																							
.875																7							
.750							100	Piles.						1									
.625					35																		
.500																					1		i
.375				5	26																		i
.250																	1					100	ł
.125										100													i
4.																				1			ł
.875			1																		1		l
.750																			1	1	1	1	ŀ
.625																	-			1	1	1	
.500																	-					-	
.375								-									-		1				
.250										100	5									1	1	+	
.125												100		-		-		100			1		
3.															1			-	-		-	-	-

Highest this year, 4.375 cents per lb. Lowest this year, 3.95 cents per lb.



Harmonic Signaling System and Hand Generator. — Manson. — In this system a special magneto generator with a mutilated commutator is employed, by which the central office can be rung up without actuating the subscribers' ringers. In the diagram, several substations are indicated by bridges of the line at A, B, C and D. The generator is shown at the last station, and will throw down the drop S without ringing the bells B'. Assigned to The Dean Electric Co. of Elyria, Ohio. - 927,663.

Back to Montreal, Old Home Week

September 13th to 20th

Special railway rates.

Northwestern Electric,

REGINA

Electrical Construction Supplies. Lighting and Power Plants. Telephone Systems. Electric Fixtures. Fans. Heating Apparatus. Sad Irons. Electric Clock Systems.

Special Lines — Iron Wire for Telephone Systems. Flaming Arc Lamps. Tungsten Lamps. School Program Clock Systems. Tower Clocks for Public Buildings.

POLICE SUPPLIES

Buttons, Badges, Caps, Blue Cloth and White Drill Helmets, Belts, Batons, Clubs, Handcuffs. Nippers, Leg Irons, Whistles, Wrist Chains, Revolvers, Rubber Boots and Coats. and all requirements for a Department.

Manufactured and Imported by

HARRY K. MARTIN

Street Railway Chambers,

MONTREAL

LANDSCAPE Member American Society of Landscape Architects



Advice, Sketches, Designs, or Full Working Plans

Parks, Cemeteries,

Country Estates **Home Grounds**

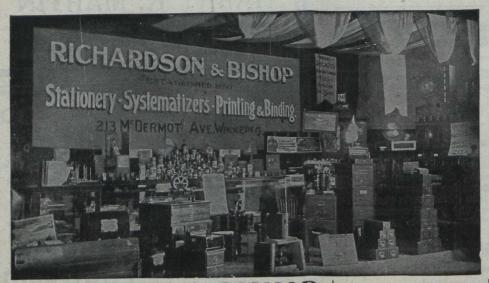
Telephone Uptown 2857 Place, I lontrea The CANADIAN MUNICIPAL JOURNAL CO., Limited, while grateful for offers of the printing of Municipal Forms, Debentures, etc., does not handle such work.

The CANADIAN MUNICIPAL JOURNAL is not a "house organ", asking avertisers to pay it to push a printing and supply business. It is a newspaper, dependent on subscriptions and advertisements, not cutting in on any other business.

But it can recommend the following firms as making a specialty of municipal work and does recommend them.







RICHARDSON & BISHOP

31st YEAR

Rotary Mimeos,
Vertical letter
Files,
Loose Leaf
Systems,
Card Systems,
Rem-Sho. Visible
TYPEWRITERS,
Maps, Globes,
Copying Baths,
Etc.

WINNIPEG

The Municipal Construction Co.

LIMITED

Contractors for Water Works Construction

MANUFACTURERS OF

--- WIRE WOUND WOOD STAVE PIPE.----- CONTINUOUS STAVE PIPE.---

AGENTS FOR WATER WORKS
SUPPLIES

OFFICE: Rooms 211 & 212 319 PENDER ST.

VANCOUVER, B.C.

London Sewer Pipe and Tile Moulds

are designed to meet the requirements of every Engineer. Our moulds are Used by the Municipalities and Contractors throughout the Dominion. No other moulds on the market can compare in design, workmanship or material.

We also make a full line of Concrete Machinery and Cement Working Tools.

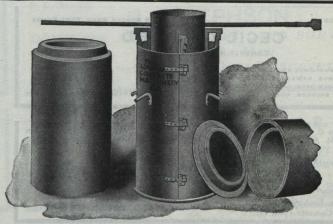
TELL US YOUR REQUIREMENTS.

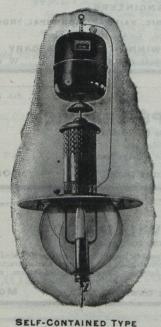
The London Concrete Machinery Co., Ltd. 19 Marmora St., LONDON, Canada.

Largest Manufacturers of Concrete Machinery in Canada.

THE W. H. ROSEVEAR CO.

312 Ross Ave., Winnipeg, Man. Agents for Manitoba





1000 C. P.

SEND FOR OUR CIRCULAR

"Municipal Lighting"

IT WILL INTEREST YOU.

LIGHT
Is NOT the most up-

ELECTRIC

Is NOT the most upto-date form of street lighting.

"THE EMPIRE LIGHT"

Petroleum Vapor Lamp

IS.

ELECTRIC ARCS, to say nothing of incandescents, can't compare with it.

THE OUTLAY for PLANT is quite insignificant and THE COST of running is economy itself.

The Empire Light Co.

MONTREAL

Culverts that are Guaranteed

We have tested our Culverts by freezing them solid.

We have tested them up to 80 tons outside pressure.

We know that they cannot burn. We have yet to see a rusted one.

We guarantee them for 25 years.

ANY SIZE. ANY LENGTH.

Write for prices of culverts, graineries, etc.

Alberta Metal Culvert Company, Ltd.

P. O. Box 1517.

CALGARY, Alta.

CONSULTING AND CONSTRUCTING ENGINEERS.

ROBERT A. ROSS, E. E.

HENRY HOLGATE, C. E.

ROSS & HOLGATE

CONSULTING ENGINEERS

ELECTRIC, HYDRAULIC, STEAM INSTALLATIONS EXAMINATIONS, REPORTS, VALUATIONS.

80 ST. FRANCOIS XAVIER ST. MONTREAL

CABLE ADDRESS " ROSSGATE".

W. U. CODE

JOHN GALT, C.E. & M.E. Mem. Can. Soc. C.E.

OWEN W. SMITH, C.E. Assoc. Mem. Can. Soc. C.E.

GALT & SMITH

CIVIL AND SANITARY ENGINEERS

Water Works, Sewerage and Sewage Disposal Electric Lighting, Steam and Water Power, Consultations, Examinations and Reports.

Head Office: 23 JORDAN STREET,

TORONTO

211 BOARD OF TRADE BUILDING

LAURIE & LAMB

CONSULTING & CONTRACTING ENGINEERS

STEAM & GAS POWER INSTALLATIONS FILTERING & WATER SOFTENING PLANTS
REFUSE DESTRUCTORS & BOILER INSTALLATIONS
REPORTS, TESTS & APPRAISALS

MONTREAL

CHARLES BRANDEIS, C.E.

A.M. CAN. SOC. C.E. MEM. AMER. ELECTRO-CHEMICAL SOC. ETc.

CONSULTING ENGINEER TO PROVINCIAL GOVERNMENT, MUNICIPALITIES, ETc.

Estimates, Plans and Supervision of Hydraulic and Steam Electric Light, Power and Railroad Plants, Waterworks and Sewers. Arbitrations, Reports and Specifications. 4 PHILLIPS PLACE, - -MONTREAL

PHONE 3785

RES. 6 ROSLYN ROAD, FORT ROUGE

CECIL GODDARD

CONSULTING CIVIL ENGINEER

GENERAL MUNICIPAL ENGINEERING WATER WORKS, SEWERAGE, ELECTRIC LIGHTING WATER POWER DEVELOPMENT. GAS PRODUCER PLANTS RAILWAYS, BRIDGES, ROADS, ETC.

WINNIPEG, MAN.

M. MORSSEN C. E. Assoc. M. Am. Soc. C. E.

W. SCOTT HUTCHINSON M. Sc.

MORSSEN & COMPANY CONSULTING and CONTRACTING ENGINEERS.

PLAIN and REINFORCED CONCRETE EXPERTS

Bridges, Reservoirs, Warehouses, Factories,

Reinforced Concrete Piles, etc.

MONTREAL

1653 ST. JAMES ST.

Thos. A.TRACY, M. Can. Soc. C.E. P.L.S., D.L.S.

CONSULTING ENGINEER
WATER WORKS
WATER POWER
SEWERAGE

Reports on B. C. Properties 411 Howe St. - VANCOUVER, B. C.

CHARLES H. KEEFER, C.E., Consulting Engineer

THOS. C. KEEFER, JR., Late Lieut. Royal Engineers

KEEFER & KEEFER CIVIL ENGINEERS

Reports and Construction Water Powers, Waterworks, Sewerage, Bridges and Railways

METROPOLITAN BUILDING, OTTAWA, ONT.

A. L. McCULLOCH, M. Can. Soc. C. E.

CONSULTING ENGINEER

Hydro-Electric Power Installation.

Water-Works. Sewerage and Sewage Disposal.

Examinations, Plans, Estimates and Reports.

NELSON, B.C.

SMITH, KERRY & CHACE

HYDRAULIC, STEAM, ELECTRIC, RAILWAY, MUNICIPAL, INDUSTRIAL W. U. Code used. Cable Address "Smithco".

TORONTO - WINNIPEG - CALGARY.

CECIL B. SMITH.

I. G. G. KERRY.

W. G. CHACE.

W. E. SKINNER LIMITED

CONSULTING ENGINEERS

ELECTRICAL AND MECHANICAL.

Special attention given to preliminary Estimates for Electric Light, Waterworks, Etc. Correspondence solicited.

518 Somerset Block.

WINNIPEG, Man.

B. Sc., (M:Gill)

Ass. M.C.S.C.E., Ass. M.A.I.E.E

DE GASPÉ BEAUBIEN

Consulting Electrical Engineer.

Estimates, Reports, Plans and Specifications. Supervision of Power, Lighting and Railway Installations.

LIVERPOOL LONDON AND GLOBE BLDG.,

MONTREAL.

PERCIVAL W. ST. GEORGE

Mem. Inst. C. E. Mem. Can. Soc. C. E.

CONSULTING ENGINEER

TEL. MAIN 4717

Board of Trade Building.

MONTREAL.

OFFICE, 331 GARRY ST.

TELEPHONE, MAIN 5065

J. W. WILLIAMSON Mechanical Engineer

Will advise on Plant and Equipment; Inspect and supervise any kind of mechanical work; Furnish estimates, specifications and drawings for contractors, plants; Secure best prices in best markets for every thing mechanical—steam, electric, gas, oil, water or air.

ROOM 23.

54 NOTRE DAME ST. EAST.

MONTREAL

PAUL M. CLEMENS

ARCHITECT

Hospitals, Schools, Municipal, Business, Apartment **Buildings and Residences.**

RESIDENCE, 443 MARYLAND ST.

Winnipeg, Man.

W. M. BROWN, C. E.,

TECHNICAL JOURNALIST,

COLLINGWOOD, ONT.

Special articles written to order for insertion in the principal Canadian and American building and trade journals. Terms moderate.

CONSULTING AND CONSTRUCTING ENGINEERS.

R.S.Lea, M. Can. Soc. C. E. A.M. Inst. C. E.
M. Am. Soc. C. E. Hydraulic & Sanitary
Engineer

Engineer

M. Am. Soc.M. E., M. Am. Soc. C. E.
Engineer, Pulp and Paper Mills,
Power Plants

R. S. LEA and H. S. FERGUSON ENGINEERS

Specialties: Water Supply, Sewerage, Water Power Development and Transmission, Steam Power Plants, Pulp and Paper Mills. Examinations and Reports 405 Dorchester St., W. Long Distance Tel. Up. 751.

R. S. KELSCH

TESTS, REPORTS, PLANS, SPECIFICATIONS.

STEAM, ELECTRIC & HYDRAULIC POWER PLANTS RE-CONSTRUCTED AND PUT ON PAYING BASIS.

POWER BUILDING, - - MONTREAL, QUE.

WALTER J. FRANCIS. C. E.

CONSULTING ENGINEER

SOVEREIGN BANK BUILDING

MEMBER CANADIAN SOCIETY CIVIL ENGINEERS MEMBER AMERICAN SOCIETY CIVIL ENGINEERS

MONTREAL

J. M. ROBERTSON, LIMITED

CONSULTING ENGINEERS

Mechanical, Electrical, Hydraulic, Steam Gas. Plans, Specifications, Estimates, Tests, Reports, and Supervision.

SUITE 101 BOARD OF TRADE BUILDING,

MONTREAL, QUE.

HUGH G. HOLMAN

Special attention given all Municipal Buildings.

63½ Scott Building.

WINNIPEG. Man.

P. O. Box 986

R. J. JEPHSON

PHONE No. 73

DOMINION AND MANITOBA LAND SURVEYOR BRANDON, MAN.

MUNICIPAL AND TIMBER LIMIT SURVEYS A SPECIALTY

WILLIS CHIPMAN

CIVIL AND SANITARY ENGINEER

103 Bay TORONTO 47 Canada Life Building WINNIPEG

City Hall

SASKATOON

ALEXANDER POTTER, C. E.

Specialist In Hydraulic and Sanitary Engineering 114 LIBERTY STREET, NEW YORK CITY.

Water Supply and Purification. Sewerage and Sewage Disposal.
Water and Electric Power.

Special Facilities for the Sanitary Investigation and Analysis of Water Supplies for Municipal and Manufacturing Plants.—Plans, Estimates and Specifications.

TEL. MAIN 7021.

WALTER R. DUCKWORTH

Assoc. Member Can. Soc. of Civil Engineers INSPECTING ENGINEER

Room 409

EASTERN TOWNSHIPS BANK BLDG.,

MONTREAL

J. GRANT MacGREGOR CIVIL ENGINEER

A. M. Amer. Soc. C. E.; A. M. Can. Soc. C. E.,

Consultations, Plans, Reports of Railways, Bridges, Waterworks and Reinforced Concrete Structures

Purification of Water Supplies.

Proprietor of "ALPINE GRAVITY FILTRATION PLANT"

RED DEER.

ALTA.

TELEPHONE ENGINEERS.

SAMUEL G. MCMEEN

KEMPSTER B. MILLER

MCMEEN & MILLER ELECTRICAL ENGINEERS

ESTIMATES

REPORTS

Investigations of Public Service Systems of Telephones, Electric Light, Power and Gas.

1454 MONADNOCK BLOCK, CHICAGO

333 GRANT AVENUE, SAN FRANCISCO

EDWARD E. CLEMENT

ATTORNEY AND COUNSELLOR AT LAW Solicitor of Patents.

ELECTRICAL EXPERT

McGILL BUILDING

WASHINGTON, D.C.

STONE & GREEN TELEPHONE

EXCHANGE CONTRACTORS AND ENGINEERS

Correspondence Invited.

1361 MONADNOCK

CHICAGO, ILL.

EDMUND LAND,

TELEPHONE ENGINEER

Plans of Telephone Exchanges and Toll Lines, Estimates, Appraisals, Service Studies, Reports, Etc. Exchange Building.

No. 15 Iones Building,

DETROIT, MICHIGAN

GEO. REAKES, C. E.,

TELEPHONE ENGINEER

Reports and Estimates-Plans and Specifications Exchange Construction and Supervision

455 Seigneurs Street.

MONTREAL

Patents, Trade Marks, Copyrights

MAX W. ZABEL

Associate Member American Institute of Electrical Engineers Expert Opinions, Investigations, Consultations.

260 Dearborn St.,

CHICAGO, III.

The Canada Iron Corporation, Limited



SUCCESSORS TO:

Canadian Iron & Foundry Co., Limited Canada Iron Furnace Co., Limited Annapolis Iron Co., Limited John McDougall & Co., Drummondville

Head Office: Montreal, P. Q.

Iron Ore, Pig Iron, Car Wheels, Cast Iron Water and Gas Pipe, Specials, Valves, Hydrants, Etc. Castings of All Kinds.

The Gartshore-Thomson Pipe & Foundry Co., Limited

JAMES THOMSON,

Pres. and Man. Director J. G. ALLAN, Vice-President JAMES A. THOMSON, Secretary ALEX. L. GARTSHORE, Treas.

Manufacturers

CAST IRON PIPE

3 INCHES TO 60 INCHES DIAMETER

FOR WATER GAS, CULVERT AND SEWER FLANGE AND FLEXIBLE PIPE AND SPECIAL CASTINGS

ALSO ALL KINDS OF WATER WORKS Hamilton, Ont. SUPPLIES

The Canadian Bridge Co., Limited

WALKERVILLE. ONT.

Manufacturers Railway and Highway Bridges

Locomotive Turn Tables, Roofs. Steel Buildings, and Structural Iron Work of all descriptions.

SEWER

CHIMNEY TOPS FLUE LININGS WALL COPINGS

> Ask for Price Lists and Discounts



TELEPHONE (Toronto connection) PARK 1809 Post Office: SWANSEA

SALT-GLAZED and VITRIFIED True to size Impervious to water Will never disentegrate

Sizes manufactured and always in stock, 4 in. to 24 in.

Works and Office: SWANSEA, near Toronto

THE DOMINION SEWER PIPE CO., Limited

WE OFFER A BETTER LINE OF

Road Rollers

THAN ANY FIRM IN CANADA.

Capacities 4 to 17 tons supplied in the ordinary

Independent or Detachable Scarifiers.

- ALSO -

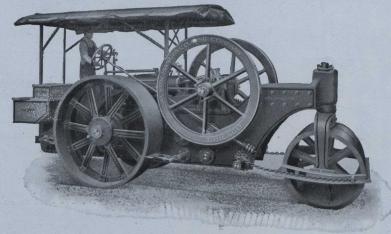
Tandem Rollers

for Asphalt, Tar Macadam. Bithulithand similar pavements, parks, estates, etc., etc.

If interested, write for catalogues, specifications, etc., etc.

THREE ROLLERS

type for Macadam. driven by Steam or by Gasoline Motor, with



"RUSTON" Steam Road Roller

"AUSTIN" Motor Road Roller

We carry a large stock in our various warehouses and at the factory, of Scrapers, Plows, Wheelbarrows, Graders, Pumps, Concrete Mixers, Crushers, etc., etc.

Send us your enquiries for Municipal Machinery and Supplies.

Mussens Limited

Head Office:

MONTREAL

BRANCHES:

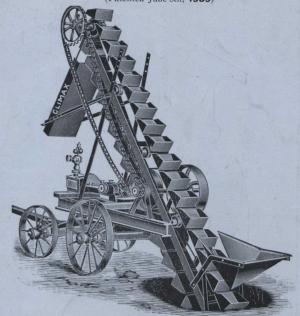
TORONTO-73 Victoria St., COBALT-Hunter Block,

WINNIPEG-259 Stanley St., VANCOUVER-614 Hastings St. W.



Feeding Machine for Stone Crushers

(Invented by JOHN ROBINSON)
(Patented June 8th, 1909)



The CLIMAX ROAD MACHINE

Reeves, Wardens, Here's The Perfect Culvert!

Easier and quicker to put in place than any other; cost less for freight and cartage; stronger and far more enduring. Made of best Billet Iron, specially heavy gauge, shaped in semi-cylinders and corrugated under a pressure of SIXTY TONS to the inch. Then heavily galvanized AFTER shaping; the only culvert so made, and therefore the only really RUST-PROOFED culvert.

Send to-day for free sample and Booklet 24 describing and illustrating Pedlar Perfect Culverts. Address place nearest you.



Shipped nested, in sections readily assembled into culvert shape. Flat flange-rib lock makes a perfectly tight joint, without rivets, bolts or other makeshifts, and quality increases strength. Only culvert with which you can break end-joints. Frost-proof, strain-proof, need no special ditching nor bracing.

Suited to every purpose any pipe can serve.

BRANCH WAREHOUSES

MONTREAL, - 321-3 Craig St. W.
OTTAWA - - - 423 Sussex St.
TORONTO - - 11 Colborne St.
LONDON - - - 86 King St.
CHATHAM - - 200 King St. W.

TORONTO
AGENCY
ROOM M
CONFEDERATION
LIFE
BUILDING

DOMINION BRIDGE CO. Limited MONTREAL, P. Q.

BRIDGES

ROOF TRUSSES::: STEEL BUILDINGS

STEEL BUILDINGS
Structural METAL WORK of All Kinds

TURNTABLES : : : :

Beams, Channels, Angles, Plates, Etc., in Stock

WINNIPEG AGENCY UNION BANK

BUILDING