

C. H. VOGEL

A. M. Can. Soc. C. E. **ENGINEER**
OTTAWA, CAN.
 Surveys, Plans, Specifications and Supervision
WATER POWER
PAPER, PULP and SULPHITE FIBRE MILLS

T. A. MORRISON & CO.

202 St. James Street. **MONTREAL**

New and Second Hand Contractor's Plant.
 Stone Crushers, Concrete Mixers, Rock Drills,
 1 Baldwin I.C.R. Standard Guano Locomotive,
 35 tons, cylinder 14 x 22, 110 H.P.
 30 Dump Cars, Narrow Gauge, 2 1/2 yards.
 Boilers, Engines, Steam Shovels, etc.

DR. GEO. ARCHBOLD, M. A.,
TECHNICAL CHEMIST

PRESCOTT, ONT.

Dr. Archbold is technical advisor to three of the oldest firms in U.S.A. Terms on application.

HAMILTON

Engine Lathes

Radial and upright drills, latest design and first-class in every respect.

Write **ALFRED J. STEVENS,**

Phone Main 1372. 18 Toronto St., Toronto.

E. VON DER OSTEN & CO.
Consulting Engineers

Industrial Plants. Waterworks.
 Lighting and Power Plants.
 Sewage and Sewage Disposal.
 Garbage Reduction Plants.
 Municipal Improvements.

73 Queen Street West,
 507 Manning Chambers, **TORONTO, ONT.**

RODERICK J. PARKE

A.M. AMER. INST. E.E.
 A.M. CAN. SOC. C.E.

CONSULTING ENGINEER

James Building, **TORONTO**
 Long Distance Telephone.

TO MANUFACTURERS:—Advice on specifications covering Industrial Applications of Electricity—Lighting—Power Transmission—Factory Power Distribution—Steam Plants.

TESTS—REPORTS—VALUATIONS.

S. DILLON - MILLS
MINING EXPERT

SPECIALTY:—Examinations, Prospecting and Initial Development of Mining Properties.
 Address correspondence to

588 HURON STREET. **TORONTO**

R. F. WENTZ ENGINEERING CO.

CONSULTING ENGINEERS AND CEMENT WORK SPECIALISTS—Designing Cement Plants; Specifications and Estimates; Superintendence of Construction; Inspection and Reports of Cement Material and Properties; Analysis and Tests of Raw Material and Cement. Designed and constructed 21 Cement Plants in United States and Canada. 20 years' practical experience Designing, Constructing and Operating Cement Works.
 509-510 Manning Chambers, Toronto, Ont.

"WYNN FIRE BRICK"

For Furnaces, Rolling Mills,
 Steel Works, etc.

W. H. WYNN & CO., WEST-DECATUR,
 Clearfield Co., Pa.
 U.S.A.

R. S. KELSCH

Mem. Am. Inst. E. E. | Mem. Can. Soc. C. E.

Consulting Engineer
38 Victoria Square, MONTREAL

LONG DISTANCE PHONE

OFFICE AND RESIDENCE

Cable Address: "KELSCH, Montreal"

Late General Superintendent and Engineer of
 The Lachine Rapids Hydraulic & Land Co.,
 Limited.

Design and Construction of Transmission,
 Lighting and Power Plants of every description.
 Underground System, Conduit,
 Estimates, Reports and Arbitrations.

Twenty years' practical experience.

T. T. SIMPSON

A.M. Amer. Inst. E.E.

CONSULTING ENGINEER

DESCHENES,
 QUE.

OTTAWA.

55 Sparks Street.

LONG DISTANCE PHONE 1383.

Factory Light and Power Distribution.

Long Distance Transmission.

Reports—Tests.

Specifications—Valuations.

THE PATENT EXCHANGE AND
INVESTMENT COMPANY.

ATTORNEYS,
SOLICITORS AND
PROMOTERS OF PATENTS.

JOINT STOCK COMPANIES PROMOTED AND ORGANIZED.

Book on Patents, List of Inventions wanted and for sale, mailed to any address free. Address,

Cor. Queen and Victoria Streets
 Toronto, Can.

J. ARTHUR MACMURTRY, Manager.

SPECIAL WORK.

WE are equipped to make any desired machine complete from drawings. We make a specialty of designing new machines for Labor Saving Purposes. We also make a specialty of Special Tools and Die Work, Rubber Moulds, etc. Experimental machines perfected. We can handle any order of reasonable size promptly and economically.

Call or write for estimates.

A. P. HOLDEN, Mechanical Expert.

107 and 109 Adelaide St. West., Toronto, Ont.

ROBERT W. HUNT & CO.

Bureau of Inspection, Tests and Consultation.
 6 Broadway, New York; 1121 The Rookery,
 Chicago; Monongahela Bank Bldg., Pittsburgh;
 Norfolk House, Cannon St., E.C. LONDON.
 Inspection of Rails and Fastenings, Cars, Locomotives, Pipe, etc.; Bridges, Buildings and other Structures. Chemical and Physical Laboratories. Reports and estimates on properties and processes.

JOHN J. GARTSHORE

88 Front St. W., Toronto.

Rails and SUPPLIES,

New and Secondhand,
 For RAILWAYS, TRAMWAYS, Etc.
 Old material bought and sold.

Established 1873. Telephone Main 1889.

THOMAS HEYS & SON

CHARLES H. HEYS, Manager.
CHEMICAL and MINING EXPERTS.
 Analyses of all commercial products, etc. Pls
 and reports on mines and mining locations.
 114 Bay Street, **TORONTO, ONT.**

THE DELANO-OSBORN ENGINEERING CO.**Consulting Engineers LIMITED**

Civil, Mechanical and Electrical Engineering,
 Power Plants, Manufacturing Establishments,
 Inspections, Tests and Reports.

Manning Chambers, **TORONTO, ONT.**

H. D. PETRIE

Barrister, Solicitor, Rotary

Spectator Building,
HAMILTON, ONT.

Companies Incorporated.
 Commercial Law and Collections.

NEP & POSTLETHWAITE**CHARTERED ACCOUNTANTS**

26 Wellington St. East, **TORONTO**
 Phone Main 1830.

Audits and Investigations a Specialty.

PATENTS

TRADE MARKS, Etc.
HANBURY A. BUDDEN
 NEW YORK LIFE BUILDING,
MONTREAL.

MORGAN CONSTRUCTION COMPANY

Worcester, Mass., U.S.A.

STEEL PLANTS
ROLLING MILLS
GAS PRODUCERS
WIRE MACHINERY

Nearly every Important Wire Mill in
 Canada and the United States uses
 our Machinery.

Wire Drawing

—MILLS—

COMPLETE OR IN PART.
 NEW AND PERFECT.

Chain Making

FACTORIES

For Coil and Trace Chains,
 Etc., Etc.

Largest capacity. Saves time and scrap.
 WRITE FOR PRICES.

The TURNER, VAUGHN & TAYLOR CO.
 Ouyahoga Falls, O., U.S.A.