

# INDUSTRIAL WORLD

AND NATIONAL ECONOMIST.

DEVOTED TO HOME INDUSTRIES, SCIENCE, COMMERCE, FINANCE, INSURANCE, RAILROADS AND MINING.

Vol. III--No. 63.

THURSDAY, SEPTEMBER 22, 1881.

\$3 PER ANNUM.

THE  
**Industrial World**

AND NATIONAL ECONOMIST.

PUBLISHED ONCE A WEEK.

FRANCIS NICHOLS, General Manager,  
TORONTO.

SUBSCRIBERS

For the United States,  
in advance, per year, Three Dollars.  
Orders should be made by registered  
money order payable to F. NICHOLS,  
Industrial World.

TO ADVERTISERS.

The Industrial World, on account of its  
large circulation, commends itself as  
an advertising medium for all who seek  
to do business with manufacturers and the whole  
trade. Its advertising rates are low when  
compared with those of other leading scientific  
and industrial publications. *Cost of rate,*  
*see application.*

Advertisements should be ordered  
to reach the office by Tuesday morning in  
order to be made part of the paper on its next  
issue.

TO CORRESPONDENTS.

The department "National Industries," is  
intended for the unrestricted use of those who  
wish to place their views on interesting  
subjects before their brethren in the trade.  
Nothing in the nature of an advertisement  
will be printed in this department.

The publisher will be obliged to all who will  
send him in items of news or late occurrences,  
which will be printed in their appropriate  
places.

All editorial communications to be ad-  
dressed to

INDUSTRIAL WORLD OFFICE,  
Drawer 1010, Ottawa, Ont.

All business letters, inquiries and adver-  
tisements, to be addressed to

FRANCIS NICHOLS,  
INDUSTRIAL WORLD OFFICE,  
TORONTO, Ont.

**TEES, COSTIGAN & WILSON**  
TEA IMPORTERS

AND

**WHOLESALE GROCERS**

66 ST. PETER STREET, MONTREAL.

GOLD MEDAL, PARIS, 1867.

HONOUR MEDAL, BERLIN, 1878.

**H. TILLMANN'S**

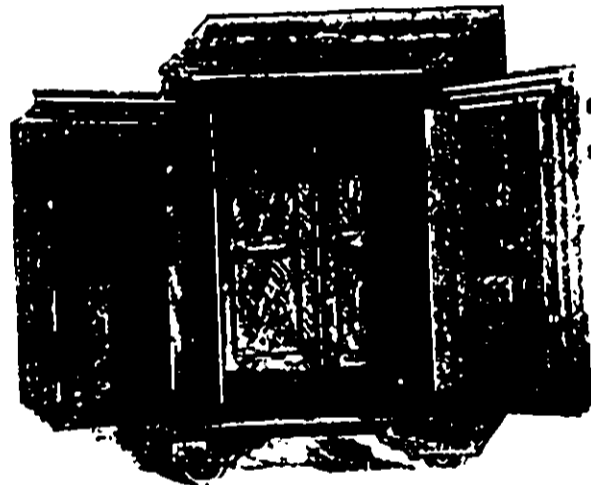
**ANILINE DYES**

Supplied either Direct from the Factory at OREFELD, Germany,  
or from the Depot of his Agent,

**CHAS. MARTIN, MONTREAL.**

**CHARLES D. EDWARDS,**

MANUFACTURER OF



**Fire Proof Safes**

WITH INSIDE BOLT WORK,

AND EVERY IMPROVEMENT.

Fire and Burglar Proof Securities.

**WAREHOUSES:**

**38 Bonaventure Street, Montreal.**

SEND FOR PRICE LIST.

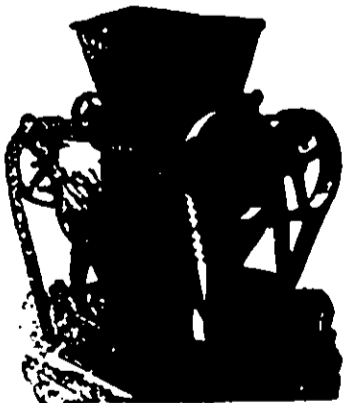
**STILL AT THE HEAD.**

**GRAY'S PATENT NOISELESS ROLLER MILL.**

**CORRUGATED,**

**SHARP**

**ROUND.**



**SMOOTH**

**IRON**

**PORCELAIN.**

**EVERY MILL A SUCCESS.**

Corrugations furnished of all descriptions. The machine once adjusted needs no more attention. Rolls through apart  
without stopping machine. Feed regulated by shifting of lever.

**UNPRECEDENTED SUCCESS.**

Weyman's Patent Porcelain Rolls in Gray's Patent Noiseless Roller Frame. Over 5,000 now in use. Send for  
particulars.

**MILLER BROS. & MITCHELL,**

110, 112, 114 and 116 King St., Montreal.

Sole Importers for Dominion of Canada.

Also manufacturers of First-class Hoisting Machinery, Mining and Contractors' Plant, Importers of best Steel Wire  
Rope, etc.

**British American Dyeing Co. Dominion Belt and Hose Co.**

MERCHANT OR PIECE GOODS DYERS IN SILK,  
WOOL OR MIXED GOODS.

GENTS AND LADIES' GARMENT DYERS' SILK  
AND SILK VELVETS A SPECIALTY.

**397 RICHMOND STREET LONDON.**

421 St. Joseph Street and 221 McGill Street Montreal

30 King Street East Toronto

125 Beak Street Ottawa

371 Richmond Street London

41 John Street Quebec

The only place in the Dominion where all classes of work  
can be guaranteed equal to the best houses in Europe.  
Price list will be sent to any address by applying to any of  
our Offices.

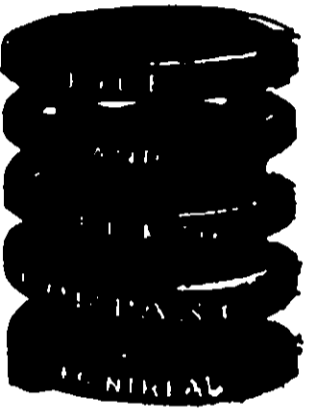
**LEATHER BELTING (Oak Tanned),  
LACE LEATHER, FIRE ENGINE  
HOSE, ETC.**

**42 Front St., Toronto.**

**FILE  
AND  
SPRING**

**CO., MONTREAL.**  
Office, 198 St. James St.  
P.O. BOX 615  
Works, Cote St. Paul.

MANUFACTURERS OF  
SUPERIOR HAND CUT  
**FILES AND RASPS**  
RAILWAY and  
Carriage Springs.  
SPIRAL SPRINGS  
**A Specialty.**



ALL  
WORK  
Guaranteed.

PRICES  
and  
DISCOUNTS  
ON

APPLICATION  
**SOLE MANUFACTURERS**  
For the Dominion of Canada of the  
**PATENT CONCAVED ELLIPTIC SPRING**  
Now in general use. 25 per cent. saving over any  
other spring used.  
**DON'T FAIL TO EXAMINE OUR EXHIBIT.**

**CHARLES MARTIN**

25 & 27 St. Peter St.

MONTREAL.

REPORTER OF

**FINE COLOURS & PAINTS**

ANILINE DYES,  
BRONZE POWDERS,  
GOLD, SILVER and  
METAL LEAF,  
MIRROR PLATE,  
PLUMBAGO,  
SLATE PENCILS,  
MARBLES,  
CHEMICALS.

TINFOILS and CAP-  
SULES,  
DYE STUFFS,  
ESSENTIAL OILS,  
FANCY PAPERS,  
GELATINES,  
GLUES, GLYCERINE,  
GEMS,  
PRINTING INKS,

MANUFACTURER OF

Square, Ball and Liquid

**LAUNDRY BLUES,**

MARTIN'S ROYAL BLACK LEAD,

SUNBEAM STOVE POLISH,

Lamp Burners, etc.

**LEATHER  
BELTING**

**Chipman, Renaud & Co.**

MANUFACTURERS OF

Leather Belting,

**FIRE ENGINE HOSE,**

LACE LEATHER, etc.

124 & 126 Queen St.,

MONTREAL.

**FANCY GOODS,  
TOYS,  
NOTIONS, ETC.**

Merchants visiting either Montreal or Toronto  
are respectfully invited to call and examine our  
stock which is now complete in every depart-  
ment for the fall and holiday trade.  
Never before have we had such a  
large and beautiful assortment of

Fancy Chinaware,  
Glassware,  
Photograph Albums,  
Velvet and Wood Frames,  
Toilet Cases,  
Music Boxes,  
Work Boxes,  
Desks,  
Cabinets,

Pin Toys,  
Wood Toys,  
Mechanical Toys,  
Dolls (in great variety),  
Drums,  
Guns,  
Swords, etc., etc.

**NOVELTIES**  
In every department at

**H. A. Nelson & Sons**  
Manufacturers and Importers.

Toronto House, Montreal House,  
54 & 56 FRONT ST., WEST. 89 TO 93 ST. PETER ST.