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The Best Value, The Newest Designs,
The Leading House for

WALTHAM WATCHES, ELGIN MOVEMENTS.

Swiss and American
Chronographs and Repeaters.

A splendid stock of **GOLD CASES** with specially fine
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WHOLESALE JEWELERS.

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P. W. ELLIS & CO.

31 WELLINGTON ST. EAST, TORONTO.

We aim to occupy the foremost position in the American Watch Trade of Canada; some say we do. We leave it to the trade to judge, being content to let our stocks in the hands of our travellers and in the warehouse speak for themselves.

SPECIALTIES IN WATCHES FOR THIS MONTH :

Waltham Crescent Filled 18 Size Screw B. & B. Cases.	
" " " 14 " " " "	
" " " 1 " Queen Watches, Pendant Set.	
" " " 6 " " " " "	
" " " 1 " Hunting " " "	
" Silver, 6 Size Full Open Face Watches, " "	
" " 1 " Queen Watches, Pendant Set.	
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" " 14 " Open Face " " " P. S. "	
" " 14 " Double Stock, " " " "	
" " 18 " 4 oz. Screw Bezel Cases, Gold Reflectors.	
" " 18 " New Pioneer Screw Bezel Cases.	
" " 18 " Old Pioneer " " " "	
" " 18 " Old Pioneer " " " Inlaid and Eng'd.	
" Nickel, 18 " Screw Bezel Cases.	

ELGIN MOVEMENTS.—Full Stock of all grades in hands of travellers and House.

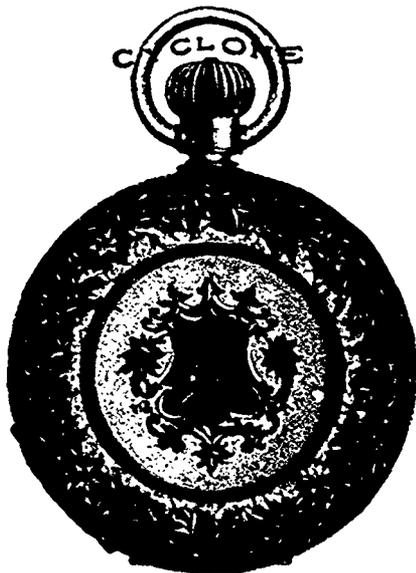
16 SIZE O. F. SCREW B. & B. SILVER CASES FOR ELGIN MOVEMENTS.

Domestic Gold, Gold Filled and Silver Cases.

EYELONE FILLED CASE.

Did you get our Circular giving particulars of the Cheapest Hunting 18 Size Filled Case ever offered to the Canadian trade? Supply limited. When exhausted can obtain no more. Orders filled in rotation as received.

NOTE. -Hold your Clock Orders until you see our new Illustrated Catalogue and Price List.





The Goldsmiths' STOCK COMPANY OF CANADA (LIMITED)

NOVEMBER SPECIALTIES.---Now is the time to see that your ammunition is ready for the active service of the Holiday Season.

Have you a good assortment of Walking Canes---Gold and Silver Heads? We do this trade right---offer a large variety suitable for Holiday Gifts and for special presentations.

How about Nickel Clocks---not only the staples "Pirate" Alarm and "Princess"---you know we always do a little better for you with these favorites than any other house --but there are a few Fancy Novelties---some listing under Five Dollars--that will help you out in an assortment of Christmas Goods at popular prices. They are in the new Catalogue. Have you written for one?

Stock-taking with us means ascertaining the present cash value of that asset. We have a few lines of Brooches, Sets, Locketts, Charms and Earrings which we value at "their weight in gold"---that is to say at what they will yield us from the melting pot. They may be --in fact they **are** worth more than that to you. Will be glad to show them to you if you are in town, and you may have them at the melting price. See next page.



HAVE YOU IN STOCK

Gold and Silver Thimbles ?

Sterling Silver Spoons ?

Dessert Sets (Silver Knives & Forks) in Cases ?

Pearl and Ebony Holders with Gold Pens ?

Carving Sets (Meat and Game Carvers in Case) ?

New Silver Finish Statuettes and Figures ?

*Fancy Button Hooks, Paper Cutters (in Silver
and Pearl) ?*

Pen Wipes and Book Marks (in Oxidized Silver) ?

THEY ARE SELLING WELL.

Order them from

The Goldsmiths' Stock Company of Canada, Limited.



PAILLARD NON-MAGNETIC MOVEMENTS

OPEN FACE AND HUNTING.



18 SIZE AMERICAN.

No. 45. Nickel, 15 Ruby Jewels, in Gold Settings, Adjusted, Patent Regulator, Double Sunk Dial, Breguet Hair Spring.

No. 47. Gilt, 15 Jewels in Settings, Adjusted; Patent Regulator, Double Sunk Dial, Breguet Hair Spring.



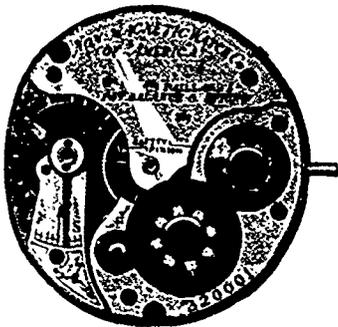
16 SIZE.

No. 71. Nickel, 20 Jewels, Adjusted, Patent Regulator.

No. 72. Nickel, 18 Jewels, Adjusted, Patent Regulator.

No. 73. Nickel, 16 Jewels, Adjusted, Patent Regulator.

No. 74. Nickel, 15 Jewels, Adjusted, Patent Regulator.



16 SIZE.

No. 81. Nickel, 15 Jewels, Adjusted, Patent Regulator.

No. 82. Gilt, 15 Jewels, Adjusted, Patent Regulator.

No. 83. Gilt, 11 Jewels.

No. 84. Gilt, 7 Jewels.

NOTE.—For full description of these Movements consult Price List.

These Movements contain the justly celebrated Paillard Non-Magnetic Compensation Balance and Hair Spring, and are superior to any other make.

THE GOLDSMITHS' STOCK CO. OF CANADA Ltd., Canadian Agents.

The Goldsmiths' Stock Company of Canada, Limited,



WATCH DEPARTMENT.

FILLED CASES.

PRICES in these goods we cut close. Our assortment includes all desirable lines. They are fitted with Gold Bows, an essential feature, and our desire is to put in the hands of the Retailer such goods alone as will be satisfactory to the consumer. Do not destroy confidence in a really meritorious article by handling any lines that are not made by thoroughly responsible and reputable manufacturers. We have some Nobby Patterns in Ladies' Goods



GOLD CASES.

See our Embossed Pattern. This is the Richest and most Artistic Design in the Market Made in all sizes.

A Large Assortment of Fine Engraved Ladies' Cases, and Heavy Weights in Gents' Presentation Goods.

Prices in these are so low that any dealer can afford to carry a fair stock.



SWISS WATCHES.

Special Value in Silver Chatelaines and Ladies' Hunters, also a few very nice goods for fine trade.

LADIES' AMERICAN GOLD WATCHES.

Several hundred Choice Engraved Goods at a Specially Attractive Price Write for a few on approval.

MOVEMENTS.

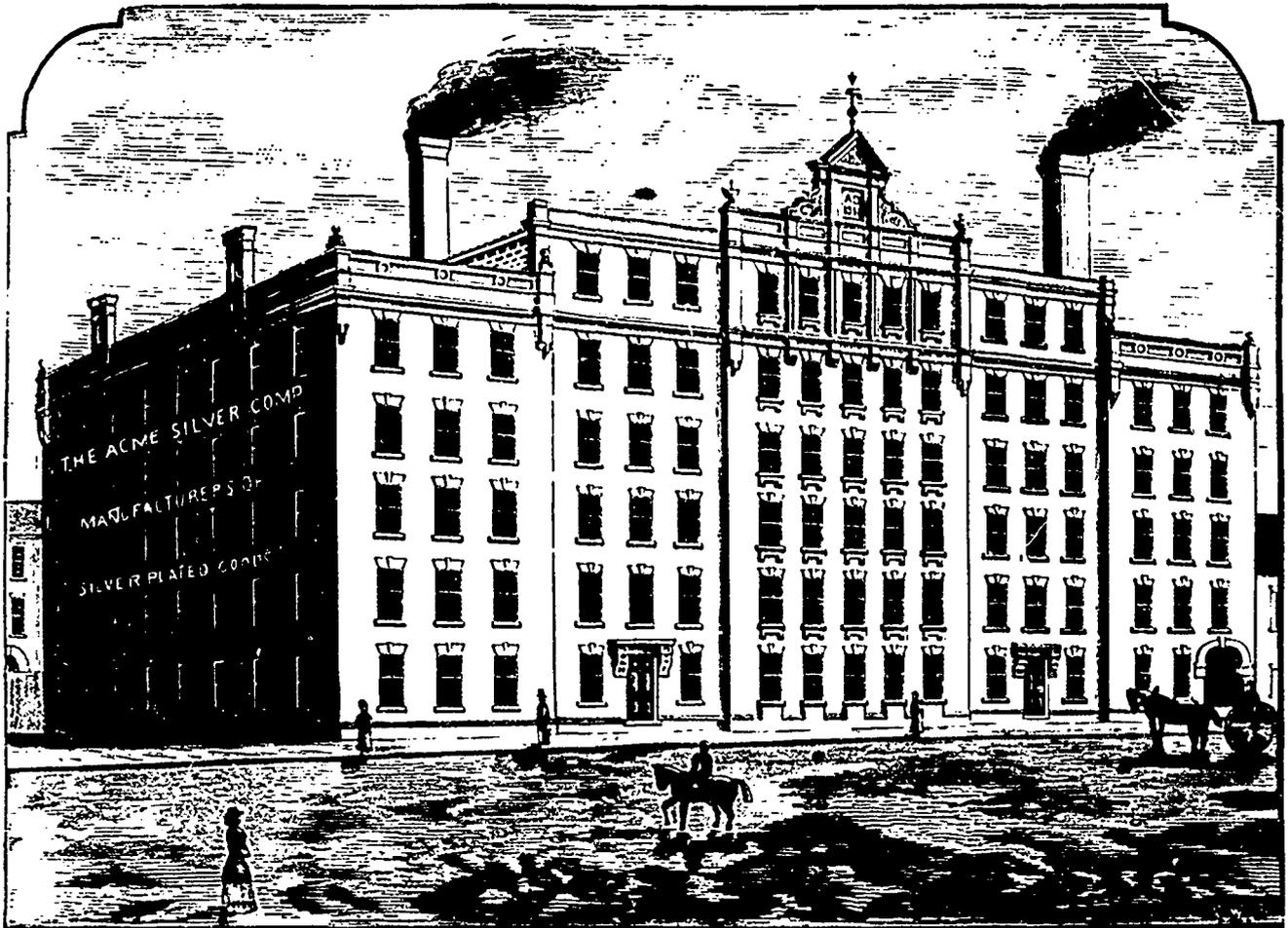
The Regular American Goods with a few desirable lines of Swiss.

The Goldsmiths' Stock Company of Canada, Limited.



OUR * NEW * FACTORY

The Largest Silver Plate Factory in Canada and
the Third Largest on this Continent.



We now occupy the above Building.

THE ACME SILVER COMPANY,
TORONTO.



BUY WATCHES THAT ARE WATCHES.



"JOHN C. DUEBER." Nickel, 15 Ruby Jewels, in settings adjusted to heat and cold, sunk Seconds and Circle Dial, upright Arabic Figures and Seconds, Breguet Hair Spring, Compensation Balance, Patent Regulator. Specially guaranteed to be the best time-keeper in the world for the price, and superior to any other full plate Watch made outside of the Hampden Watch Factories.



RAILWAY SPECIAL.—Nickel, 17 extra fine Ruby Jewels in Gold Settings, Jeweled Centre, magnificently damasked and finished, Bevel Head Gilt Screws, 14k Gold Patent Regulator, Expansion Balance, perfectly compensated and accurately timed to Position and Isochronism, Double Bank Glass, Enamel Dial, with Red Marginal Figures, Breguet Hair Springs.



206. Fine Nickel Movement, 11 Jewels in Settings, Compensation Balance.



DUEBER.—Nickel, 15 Ruby Jewels in Settings, Sunk Second and Circle Dial, Upright Arabic Figures and Seconds, Breguet Hair Spring, Compensation Balance, Patent Regulator.



THE DUEBER WATCH CO.—Nickel, 11 Jewels in Settings, Patent Regulator, Roman Circular Dial, Spade Hands



THE DUEBER WATCH CO.—Gilded, 11 Jewels in Settings, Compensation Balance, Patent Safety Pinion.

WILLIAM ALLEN YOUNG,

SOLE CANADIAN WHOLESALE AGENT,

Bank of Commerce Building,

LONDON, ONT.

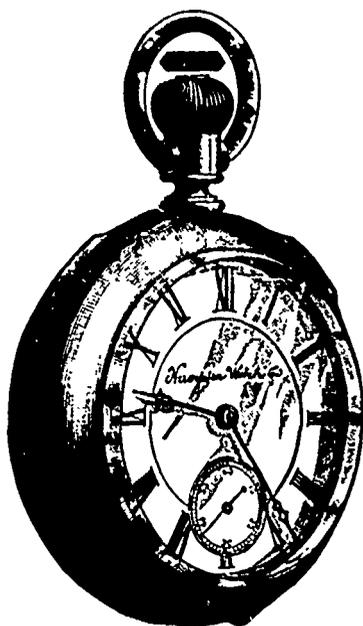


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AND HEREAFTER
ALL WATCH COMPANIES
MUST FOLLOW

THE DUEBER-HAMPDEN CO.

As we have the only complete line of Watches for Watch-makers and the only complete Watch factories in the world. The superiority of the DUEBER WATCH CASES is acknowledged by all, and the elegance of style and finish on the HAMPDEN MOVEMENTS is unrivaled, and will be kept so. No Jeweler's stock is complete without them.



The Dueber-Hampden Co.
Manufacture Time-Keepers
and not merely
Watches.

The late advance in Fine Silver, compelling a corresponding advance in the prices of Silver Watch Cases, has induced us to manufacture our new

DUEBER RAILWAY SILVERINE WATCH CASE.

This Watch Case will have **SOLID GOLD JOINTS AND GOLD CROWN. GOLD REFLECTOR ON OPEN FACE CASES. GOLD FILLED BEZEL ON HUNTING CASES.**

Our object being to furnish buyers of Dueber-Hampden Watches with a low-priced but splendidly finished Watch Case, equal in every respect, except in intrinsic value, to a Gold Watch Case. Open Face and Hunting Juergensen Style.

The world-wide reputation our regular Silverine Watch Case has made for itself, has decided us to manufacture the above, the workmanship on the Railway Silverine being equal to the finest Gold Case, the only difference being in the low cost of the metal used. Send for Samples.

Address all communications to

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Bank of Commerce Building,

Sole Canadian Wholesale Agent for the Sale of

LONDON, ONT.

DUEBER-HAMPDEN WATCHES.



GEORGE CHILLAS,

33 WELLINGTON ST. EAST, TORONTO,

IMPORTER OF

WATCHES AND DIAMONDS

HAS NOW IN STOCK A FULL LINE OF

AMERICAN AND SWISS WATCHES

FINE GOLD WATCHES SUITABLE FOR PRESENTATION

ALSO SPECIAL LINES IN

CHRONOGRAPHS,

SPLIT SECONDS,

REPEATERS.

A great variety of Chatelaine Watches in Gold and Silver.

BEST VALUE IN DIAMONDS AND DIAMOND RINGS.

GEORGE CHILLAS,
33 Wellington Street East, - TORONTO.



TORONTO, ONT., NOVEMBER, 1890.

The recognized organ of the Jewelry and kindred Industrial Trades of Canada. Published on the first of every month, and sent free to every dealer in Jewelry, and kindred goods in the Dominion of Canada. Price to all others \$1.00 per annum, payable strictly in advance.

Our rates for advertising will be found very low, and will be made known upon application.

We shall be glad to receive correspondence from all parts, and will publish such letters as will be of interest to the Trade. We do not, however, hold ourselves responsible for the opinions of our correspondents. The name and address must invariably accompany the communication, not necessarily for publication, but as a guarantee.

All business and other communications should be addressed to

THE TRADER PUBLISHING CO.,

67 ADELAIDE ST. W., TORONTO, ONT.

SPECIAL NOTICE.

To ensure insertion, changes or new advertisements must reach this office not later than the 20th of each month.

EDITORIAL.

PROSPERITY AHEAD.

NOTWITHSTANDING the transient hardship which may be imposed upon our Canadian farmers through the passage of the McKinley Bill by the United States, it is quite evident that there are prosperous times ahead for this country. Like a young giant refreshed by his sleep, Canada is fast awakening to the fact that we have one of the grandest countries in the world, the natural resources of which only require development to place it in the front rank of nations.

It is a great thing for any people to have confidence in themselves and their country. Hitherto this feeling has been lacking somewhat in Canadians, but the rapid march of events during the past ten years has convinced even the most skeptical, that nothing short of sheer national inertia and stupidity can keep this country back from its rightful place in the procession of nations.

The cash value of this year's crop, in the province of Ontario alone, is placed at nearly \$112,000,000, as compared with \$102,000,000 in 1889. It is now estimated that Manitoba and the North-west Territories, will have nearly 15,000,000 bushels of wheat, worth in round numbers \$10,000,000, for export, an enormous increase on any former year. In Quebec, the Maritime Provinces and British Columbia, the output of produce of various kinds is above the average, so that over the whole broad area of our Dominion there is not only enough for both man and beast, but plenty to send abroad in exchange for foreign products. Prices are also considerably higher than usual for all kinds of farm produce, and it is pretty

safe to say that our farmers will net at least ten per cent. more from their season's toil than they have done for several years past.

For these reasons we have no hesitation in predicting prosperous times ahead for our merchants, manufacturers and farmers, for the good crops which affect our farmers favorably must of necessity bring a considerable measure of prosperity to the other classes.

THE MCKINLEY BILL.

THE Tariff Bill over which the two political parties of the United States have been struggling for the past six months, is now an accomplished fact, having come into force on the 6th of October. In many respects it is far reaching, and has undoubtedly created more excitement throughout the mercantile communities of all civilized peoples than any trade enactment since the repeal of the Corn Laws by Great Britain.

As to how it will work, people in the United States are divided, pretty much according to their politics.

Republican Protectionists say that it is the capstone that has long been wanted to crown the commercial and manufacturing supremacy of the United States and place her in the van of the manufacturing nations of the world.

Democratic Free Traders, on the contrary, assert that the measure is but one step removed from national suicide, and that not only will it cripple American foreign trade, but seriously endanger their home market as well.

When a people are thus divided against themselves regarding the effects of such a measure, who can with any degree of certainty predicate its future?

So far as the Bill, which is the incarnation of commercial selfishness, is concerned, whether its effects are good or evil, it is certainly true that the United States were undoubtedly acting well within their rights in passing it. We are not amongst those who regard it as a warning to other countries that the United States does not desire to trade with them, but simply that looking after their own interests before those of any other country, the legislators of the great American Republic came to the conclusion that they would trade only with those countries which were willing to do so on the terms and for the products laid down in the McKinley Bill.

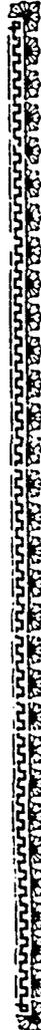
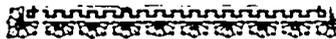
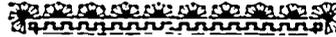
Free Traders assert that in trying to dovetail reciprocity with the Latin countries of South America into this ultra protective bill, Mr. Blaine has attempted a feat almost as impossible as riding two horses going in opposite directions. While this may appear so to Free Traders, we must confess that there seems to us to be considerable method in Mr. Blaine's madness, and we should not be in the least surprised to see his reciprocity scheme work good results to the trade of the United States.

So far as Canada is concerned, we think that while the measure was primarily intended to help the American farmers, it has also been made to do duty as a lever to force this country into commercial, if not political, annexation to the United States.

Mr. Blaine and many other leading American politicians, have plainly and pointedly declared that the only way that



WALTHAM O. F. 16 S. PENDANT SETTING WATCHES.



MANUFACTURED BY THE

AMERICAN WALTHAM WATCH CO.

WALTHAM, - - MASS.

NOTE.—For the convenience of the Canadian trade we have established a Branch Office at No. 185 St. James Street, Montreal. The goods will be, as heretofore, sold to Jobbers only.



Canada can even expect to enjoy the advantages of the United States market, is to come within the fold and become part and parcel of the Union, and that if they are unwilling to do this they must take the consequences and starve outside in any fashion they please.

The answer given by Canada to the McKinley Bill, as set forth by the speeches of Sir John A. Macdonald and other members of the Dominion Cabinet, is simply that "the United States have passed laws, which they had a perfect right to do, but which are bound to operate against the trade relations which have hitherto obtained between the two countries. Although these laws may disturb our trade for awhile, Canada does not propose to abate one jot or tittle of her rights as an independent colony of the British Empire, and while she will probably pass no retaliatory acts of legislation, she will proceed to find other markets for her surplus products, and take such steps as she deems best calculated to promote her own interests."

In other words, if the McKinley Bill is intended to scare the Canadian people into annexation by shewing them how dependent they are upon the markets of the United States, it will prove a veritable boomerang both to its supporters at home and their abettors in Canada, for without doubt much of the sting of this Bill has been caused by the efforts of disgruntled Canadian politicians to convince the legislators of the Republic, as well as our own people, that the markets of that country were an imperative necessity to our farmers.

No, so far as Canada is concerned, she does not propose to go out of business just yet, and will, we trust, for long years to come be found at the same old stand and under the same old flag. Politically the effect of the Bill will be to make Canadians stand shoulder to shoulder, and do their level best to find new and more desirable markets for their surplus products.

While the United States has been a good market for Canada, it is just as well for our people to learn, before it is too late, the danger of trusting too many eggs in one basket. The passage of the McKinley Bill plainly proves that were commercial union with the United States ever to become an accomplished fact, and our trade with that country to assume the gigantic proportions that its advocates claim, political annexation would follow almost as a matter of course whenever the politicians of the United States thought fit to apply the screws. If the trade of this country is now in the critical position that the advocates of commercial union are trying to make us believe it has been placed in, simply by a raise in duty on three of our agricultural products on the part of the United States, which country purchases less than half of the natural products which we export, what would be the effect on our trade if when by legislative enactment we practically excluded England and all other countries from our markets and made an agreement to trade almost exclusively with the United States, that country should suddenly terminate the treaty and tell us that if we wanted the benefit of their markets we must become a part of the Union?

Forewarned is forearmed, and the Canadian people will be short-sighted indeed if they allow themselves to be cajoled or coerced into any such commercial alliance, the outcome of

which could only result in the absorption of this country by the United States.

The United States are working out their commercial and political destiny (and it is indeed a great one) in their own time and way, and we are convinced that unless they are misled by Canadian traitors they are willing to let Canada work out her own commercial and political future in the same quiet manner. The continent is broad enough for the two great branches of the Anglo Saxon race to live peaceably along side of one another, and although the United States may think it is to their interest to practically exclude our farm products from their markets by high duties which they themselves will probably have to pay, such an action should cause Canada neither to seek relief by means of commercial or political annexation.

Although the passage of this Bill may temporarily have the effect of depressing the trade of Canada, we are firmly convinced that, if our people have not degenerated, and are only true to themselves, it will in the long run prove to be but a blessing in disguise.

If such lessons as the Cleveland Retaliation Message and the McKinley Bill, do not develop a national and self-reliant spirit in Canada, and teach her people the necessity of acting as a unit in resisting outside interference, and disloyal internal intriguers, the sooner the country is absorbed by the United States the better.

A CONTRAST.

 HE speech delivered last month before the National Club at Toronto by the Rev. Principal Grant, of Queen's University, is not only an eloquent and patriotic appeal to all true Canadians to stand firmly together on the common platform of "Canada First," but gives no uncertain sound in regard to the political questions of the day, and the humiliating position in which the advocates of Commercial Union are desirous of placing this country. Principal Grant's timely words came from the heart of a true and loyal British Canadian, a man who is acknowledged to be far above the influences of party politics, and last, but not least, a self-made man who has travelled much, kept his eyes wide open, and knows what he is talking about. His address is one which every Canadian should not only read, but ponder over, for while Principal Grant's views are those befitting a teacher of Christianity, they are also eminently practical if regarded either from a commercial or political standpoint.

One thing is certain, they present a marked contrast to the views of Canada's would-be deliverer, Erastus Wiman, if his recent utterances at Chicago are to be taken as any indication of his real sentiments. Mr. Wiman has for a couple years back been posing as an expatriated Canadian whose heart was bleeding for the woes of his fellow-countrymen; and he proposes to remedy the abuses which he has been trying to persuade them that they are laboring under, in such a way as shall at once put money into the pockets of himself and friends, and earn for him the gratitude of the American nation, to whom, in his usual disinterested way, he proposes to hand over as a free gift, the British Canadian half of the North American continent. In Canada, Mr. Wiman is a thoroughly loyal subject of "Her



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"PIONEER" CHAINS.



Warranted by Manufacturers to wear

TWENTY YEARS.

Every Chain stamped "Pioneer," and furnished with tag as above. Best thing out in the chain line.

WRITE FOR SAMPLES TO

EDMUND SCHEUER,
TORONTO,

Sole Agent for Canada.



Britannic Majesty;" in the United States he is as true to the "Stars and Stripes" as any of her sons to the manor born; at least this is the conclusion to which one is forced to come, after reading his speeches delivered in both countries. His dodge is about as transparent as that of the ass in the fable, who thought by covering himself with a lion's hide he could pass himself off as the king of beasts; all went well until he attempted to roar, when his bray gave the fraud away.

We give below some of the gems of both speeches in order to show the difference between the utterances of the real patriot who seeks the good of his country alone, and the imitation article whose sole aim apparently is to induce Canadians to drop their nickels into the American instead of the British slot.

REV. PRINCIPAL GRANT AT TORONTO.

"The annexationist, however, at the outset surrenders the name of Canada, with all that it involves its history, its constitution, its past struggles, its present life, its hopes and aims as things absolutely worthless. *Of course, to some men and all cattle these things are worthless.*"

* * * * *

"During the last fifteen months I have been in every province of the Dominion, and after inviting the frankest interchange of opinion everywhere, I came to the conclusion that there is less thought of annexation now than at any time during the last 40 years. *The growing sentiment of Canadian nationality is quietly killing it.*"

* * * * *

"Canada is a hard country to govern and to unify. It consists of geographical districts separated from each other by unfertile wildernesses. In spite of obstacles the success of confederation has been remarkable to all who know how long it takes to make a country, and who know anything of the slowness with which the old thirteen North American colonies grew into unity."

* * * * *

"The glory of Rome was not when she held the east and west in fee, and Christian emperors like Constantine and Theodosius the Great ruled the world, but when defeated at Trebia, Thrasymene and Cannæ, her field wasted, her veteran legions annihilated, her young men slain or prisoners, scarce freemen enough left in Rome to form one legion more, she still wavered not an inch, but closed her gates, forbade mothers and wives to ransom their captive sons and husbands, and refused to discuss terms of peace while Hannibal remained in Italy."

* * * * *

It is not more millions either in men or money that we need most, but more of the old spirit in the men we have: not a long list of principles, but a clear insight into those that are fundamental. To give to each province a free hand within its own sphere, to be tolerant of diversities, to deal equal justice to all, to treat minorities considerately and to have faith in our country, this surely is a creed that can be taught at every fireside and in every school as well as on the hustings."

* * * * *

"The right attitude for us is to guard the independence we have gained in the course of successive struggles, and to guard our national as carefully as we would our individual honor."

* * * * *

"Language is sometimes used that looks in the direction of surrendering our fiscal independence to a foreign power, and at the same time of discriminating against our own Empire and the rest of the world. The first means national extinction, and

the second is as unreasonable and as impossible as it would be for Britain to discriminate against us."

* * * * *

"Let us not call that unrestricted trade which means free trade with one foreign nation and prohibited trade with our own commonwealth and everyone else. That would ensure for us the contempt of the one foreign nation and the righteous indignation of all others with whom we are now trading."

* * * * *

"We need not be alarmed because some of our young men go to the United States, while others follow the flag to Africa and India, to explore the Aruwhim, like Stairs, or rule in Uganda, like Huntley MacKay. We have lads enough and to spare. Those who stay at home will build up the country, and those who go abroad will save us from parochialism. *Does anyone fancy that there would be no movement of population to the south if we made a change in our commercial policy or political allegiance? If so, we need not argue with him.*"

* * * * *

"Those who tell us that the McKinley Bill is the darkest hour that precedes the dawn, and that the dawn is already breaking, deceive themselves. I hope they shall not deceive us. In due time the light will break, but the man who waits for it will have to be almost as patient as the rustic who waits till the river has ceased running that he may cross dry shod."

* * * * *

"For fifty years free traders in England have been declaring that the dawn was just about to break in the United States, yet what is the present position of affairs? The Republican party, comprising a very large majority of the sober, thoughtful and patriotic men of the northern, western and north-western states, is solidly protectionist. The Democratic party, comprising almost the whole of the rest of the people, does not dare to unfurl the flag of free trade."

* * * * *

"We are on the same continent with them (the United States) but we are British. Once they were sure that our destiny was "to drop like a ripe plum" into their mouths a nice fate, by the way, for the plum; but now they see that we are making a nation. Mr Blaine expressed the general view when he declared openly that this was wholly incompatible with our having free trade with them. As he puts it, *we cannot be "Canadians and Americans at the same time."* Well, *we mean to be Canadians anyway.*"

* * * * *

"At the very moment when we are more dependent than ever on the open markets of Britain some of us propose to shut our doors against her, as the price of conciliating those who announce that we cannot be Canadians and Americans at the same time. *The United States may be selfish in politics, but they have never proposed anything quite so selfish as that.*"

* * * * *

"Great Britain is also our natural market. She is ready to take almost everything we produce, and distance by water is of far less consequence than distance by land."

* * * * *

"Canada and Britain will not get any reasonable measure of free trade with the United States till unitedly they can offer something which in the opinion of Congress is as good as that which we want from them. If then Canada would agree to abolish its duties on British products and manufactures, or even keep on them a small revenue tariff for a short time, and if Britain would agree to discriminate against countries refusing any reasonable reciprocity with her and with us, that would give us the weapon we need."

* * * * *

"It is clear that if we are to throw in our lot fiscally with any other nation we should do so with the mother country. It is clear that we can approach her without loss of dignity, and I



ELGIN NATIONAL



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NO. 115. NICKEL.



Compensation Balance, 13 Jewels, (3 pairs settings.)

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Compensation Balance, 15 Jewels, (4 pairs settings)

NO. 110. NICKEL.



Compensation Balance, 11 Jewels

NO. 113. GILT.



Compensation Balance, 11 Jewels

NO. 109. GILT.



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WATCH COMPANY



believe, too, that if we are prepared to pay the fair price we would get all the advantages from her that existing treaties permit."

* * * *

"Since our neighbors will not trade with us, we must do everything in reason to open the avenues of trade, not only with Britain, but with related countries. Commercial treaties with the West Indies on one side and Australia on the other, a fast steamship service across the Atlantic, the deepening of the St. Lawrence canals, a cable and a line of steamships to Australia and New Zealand, a railway to Hudson Bay, are all moves in the right direction."

* * * *

"There are matters of unspeakable greater importance to a people than the volumes of its imports and exports, or anything that can be tabulated in the most roseate-colored and most carefully prepared statistics. *Not by these things does a country live. A country lives and lives in history by what its people are.* Very little thought did the men who made Canada give to tariff questions. They were men who lived simple lives, and no privations shook their hearts of oak. Everything we have we owe to them, and the more firmly we stand on their foundations and get back to their simple manners, robust faith and sincere patriotism, the better for us. Let us take our stand on what is right, without fear of consequences. All sorts of bogeys will be used to frighten us, all sorts of temptations to allure us from the path of honor. Against all these stand fast."

ERATUS WIMAN AT CHICAGO.

"Vast as is the United States to-day, Canada is larger, and naturally is quite as rich and capable of development."

* * * *

"Mr. Blaine, Congressmen Butterworth and Hitt, Senator John Sherman and others realize, as few have done, the necessity for larger markets and new buyers of our surplus shoes, collars and cuffs."

* * * *

"But some say that reciprocity will build up a British dependency, and we know not what the future is, and, at any rate, this course will not expedite annexation. *I hold the contrary.*"

* * * *

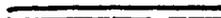
"The United States will never acquire Canada by purchase or conquest, but we can become one by trade. Conquest by commerce is far more pleasant and lasting than conquest in any other way. This continent is an economic whole; Providence never established a demarcation, and this course shall perhaps sweep away the last semblance of European dynastic sway from America"

* * * *

"No, England would not refuse for fear of another Boston tea party in Montreal waters. *She would have to consent or lose Canada.*"

* * * *

"Let the Butterworth bill pass, providing that 'whenever it shall be certified to the president of the United States that the Canadian Government will admit United States manufactures free, the president shall appoint three commissioners, who shall agree upon a plan which shall be submitted to Congress for its action in the future. *Surely there isn't very much committal in that.*'"



To WHITEN IRON.—To render iron as white and as beautiful almost as silver, take ammonical salt in powder and meet it with an equal quantity of quicklime. Dissolve in cold water and mix well. When done immerse the red-heated article in this bath and it will become as white as silver. Be careful not to burn the article by overheating

CORRESPONDENCE.

WE WILL FOLLOW YOU.



Editor TRADER—SIR :
WILL you kindly send THE TRADER to me here, and oblige,

Yours truly,
Nanaimo, B.C., Oct. 6, 1890. M. R. COUNTER.

WITH PLEASURE.



Editor TRADER—SIR :
WOULD you kindly send your valuable paper to the address below, as I have started in business and would be pleased to see THE TRADER once more.

Yours truly,
Barrie, Sept. 30th, 1890. S. NASH.

CERTAINLY.



Editor TRADER—SIR :
WILL you kindly place me on your list, as I have started for myself, and would like to receive your valuable paper.

Respectfully yours,
Ayr, Sept. 24th, 1890. JAMES FAIR.

QUEBEC HEARD FROM.



Editor TRADER—SIR :
BEING now established in St. Mary, Beauce, you would oblige me in sending your TRADER, which I cannot be without, and oblige,

Yours truly,
St. Mary, Beauce, 17th Oct., 1890. JAS. ED. LANDRY,
Watchmaker

WHERE TO GET IT.



Editor TRADER—SIR :
WILL you please let me know which is the best book on watchmaking, and where I will be likely to get one; also probable cost.

Yours very truly,
Port Colborne, Oct. 8th, 1890. C. C. CAMPBELL.

Ans.—"Saunter's Hand Book" is probably the best work you can use. It can be got from Albert Kleiser, 14 King St East, Toronto, for \$3.00.—Ed. TRADER.



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ALWAYS IN STOCK.

**WE HAVE DONE SO.***Editor TRADER—SIR :*

PLEASE send me *THE TRADER* monthly, and put my name on your list. I have just bought out the business carried on here by Mr. Watson, and I find the above-mentioned paper very useful.

Yours,

Stayner, Sept. 29th, 1890.

A. E. SWALLOW.

A VOICE FROM OUR MINES.*Editor TRADER—SIR :*

WILL you please send me *THE TRADER* to my new address, as I have started a shop here right at the mines, and miss my old friend. I enclose you a sample of nickel and copper ore for your inspection. With kind regards, I remain,

Yours respectfully,

Copper Cliff, Oct. 13th, 1890.

B. RICHARDSON.

A FREE-BORN ENGLISHMAN'S REPLY.*Editor TRADER—SIR :*

THE Hamilton gentleman who so plainly shows a strong desire to have you give him free advertising, by using such scurrilous remarks about a man he evidently knows nothing about, smacks of bad breeding. Christianity would teach him that throwing mud is no part of a gentleman. Off-scourings, slums, and such remarks, emanate from a low mind. Saunier and a dictionary, to which he apparently is a stranger, would have saved him such an expose of his ignorance. I am acquainted with Mr. Playtner, who is too honorable and too much of a gentleman I hope, to notice such an attack, and who must see the drift of Mr. Moody to gain cheap notoriety.

Very respectfully,

HOROLOGIST.

P.S.—If Mr. Moody will turn up Saunier, page 435, etc., he will find calculations and proportions of escapement with escape wheel *only left*.

A VOICE FROM THE MINES.*Editor TRADER—SIR :*

THINKING your readers may be somewhat interested in knowing what the mining regions are like and what is going on here, I will, as requested, send you a short letter describing the country and its prospects, to the best of my ability, and shall confine myself to the truth as it appears to me.

I have no doubt some of your readers saw a glowing account of the rapid growth and development of the mines around Nickel City. Well, whilst I am quite willing to

endorse the accounts of the wealth of the mineral resources of the country, I cannot agree with the account of the different mines. In the first place, from what I am informed by men who are disinterested in the matter, there is neither mine nor smelting works, let alone refinery at Nickel City. It is true they are sinking shafts and have good prospects, and in all probability in another year will be in working order.

Whilst I am a true believer in the future prosperity of the mineral industries of Canada, I also believe that the only way to further the prosperity which we as Canadians all desire is to speak the truth. In the *Mail* of last week I saw an account of the Dominion Co.'s mines, which is not endorsed by the miners around here acquainted with the works of the different Companies. In the first place the Canadian Copper Company is the largest operator, and it is an American Company from Ohio. This Company owns something like 20,000 acres of mineral lands, and at present has three mines running, viz: the Copper Cliff, their largest and richest mine at present, as you will see by a specimen of ore I send you taken out at a depth of 500 feet; next, the Evans, about one and a half miles from here, which is very rich in ore but has not been worked so long and therefore they have not got the depth; lastly, the Stobie, a mine that shut down last year because it was not so rich in ore, but on finding the other two were producing specimens so rich that there was not flux enough in them to smelt, they therefore had to open up the Stobie again. The Stobie is about seven miles away to the north of Sudbury, whilst the other two are about four miles to the S W., on the Soo branch of the C. P. R.

The Murray, which is next in importance, is owned by an English Company from Swansea in Wales. I will give a fuller account of this mine in my next.

Yours respectfully,

NICKEL PLATE.

DRAWING.*Editor TRADER—SIR :*

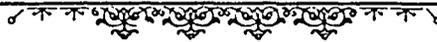
FORM AND SIZE are the two points by which the quality and accuracy of the workmanship of a mechanic may be gauged. If these are correct, most other attributes of the work may be considered secondary in importance. The nearer correct in proportion and symmetry the workman's ideal is, the more accurately his eye guides him as to the relative sizes of the different parts of the work in hand, and the quicker and better will his work be done.

On the other hand, if the mechanic has but an imperfect idea of the shape or size of a thing before he attempts to make it, he will find that his work turns out both slowly and clumsy. If he has some natural taste, but has neglected the cultivation of it, he will notice something wrong and may try to remedy the defect. He will finish, or partially finish, a piec. of work, and then will notice that it does not look quite right. He will alter the shape, thus destroying the finishing work, which has of course been done all to no account, and will find that at the end his job does not satisfy even his



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defective taste of symmetry, while to the eye of the artist it is simply abhorrent.

If a workman has no taste whatever, he may not see anything wrong about his work; he may be satisfied with himself, but his work will not take with others; even the eye of the uneducated will repel it.

The good workman who gains the reputation and commands the highest wages, is the one whose ideal is perfect, who has at once the proper conception of the form and size of an article, and can put it into practice. His eye will guide him aright in his work, which he will turn out rapidly. He will think of finishing nothing until the shape is correct—thus he will do no unnecessary labor, and will produce a high class of work in half the time that it will take a poor workman to make a bad job.

How important is it then for mechanics, and particularly for watchmakers and jewelers, to cultivate these two mental faculties, FORM AND SIZE.

In actual practice, by working after patterns, these faculties are, of course, constantly improving. A valuable and almost indispensable aid towards bringing them to perfection is

THE ART OF DRAWING.

Original designs cannot be expected of everyone, since originality of thought is not possessed in a high degree by everyone. However, it will not be denied that even a little practice in the methods and in copying and following designs is of immense benefit to the mechanic.

The Government of Ontario has long recognized this fact and offers opportunities to workmen to obtain a fair knowledge of the different branches of the art, not excelled by any other country. The rudiments of drawing are taught in the Public Schools. A higher course is prescribed for High Schools, Art Schools and Mechanics' Institute evening classes. The latter classes are open to all in most places at a mere nominal fee, so that an opportunity to make use of them is offered to most workmen at some period of their lives. The drawing course consists of five branches—Practical Geometry, Free Hand, Model or Object, Memory and Perspective Drawing. The advantages it offers to mechanics may, perhaps, be best explained by considering each branch separately.

The PRACTICAL GEOMETRY course will teach the student the use of mathematical instruments, and give him a knowledge of the methods used in designing practical work, machine drawing, etc., as well as enabling him to understand and appreciate the drawings from which he is expected to work, or the object of which may be to teach him the proper proportions, methods of design or arrangement of the different parts of a mechanical device. Many of the most beautiful ornamental designs are based on the outlines of geometrical figures. A knowledge of this branch of the art will create a taste for investigating the theory and principles on which drawings are based, and will save both money and time to a student who intends visiting a School of Horology.

FREE HAND DRAWING will educate the eye to proportion and symmetry, and will be found a great help in filing, turning and replacing broken or missing pieces of watches and jewelry. It will cultivate a taste for the beautiful and perfect

in form, and will enable the student to copy from nature. A sense of the beautiful is one of the most necessary attributes of the jewelry trade. Goods of fine pattern, carefully selected and advantageously displayed, help to swell the sales.

MODEL OR OBJECT DRAWING has a somewhat similar effect, besides enabling one to represent or understand objects drawn on paper.

MEMORY DRAWING is perhaps one of the most useful branches, since it cultivates the observation and retention in the mind of the shape of things, so that they may be reproduced, imitated or improved on, when occasion offers.

PERSPECTIVE DRAWING will be found to be a fine study, which will well repay the student. In advanced machine drawing and projection, it will be found necessary.

The whole course will prove to be a source of pleasure, usefulness and advancement of thought, which no good mechanic can afford to be without. As this is the time when evening classes will be organized for the winter, no jeweler should fail to attend them, or to use his influence in their promotion.

AD. REM.

WINDOW DISPLAY.

Editor TRADER,—SIR :



A MATTER of very great moment to merchants in general is the display of their wares. The placing of goods before the public in the most attractive way, comes little less in importance than the selection. The old saying is "goods well bought are half sold," but no matter how well bought, if indifferently displayed, the big half will be on hand at stock taking. While display is all important to the dry goods merchant, it is a necessity to the jeweler.

Step into a dry goods store in one of our towns on a market day, and it is crowded, while the jeweler's a few doors away is comparatively deserted. This is not so because the jeweler is not genial, polite and painstaking—he is generally more so than the busily engaged dry goods man; not because he has not new styles and nice goods—his stock is larger and more varied than his sales warrant; not because he belongs to a species of shark and takes an undue advantage at every opportunity—jewelers, as a class, are honest and honorable. Ask the jewelers for the reason, and one tells you it is because the wholesalers sell the dry goods men and general stores, and these are taking his trade; a second, that the catalogue men of the cities are responsible; a third, that owing to easy access to the cities his townsmen go there to buy, while a fourth sighs dolefully his is not a jewelry town. Admitting that these reasons are well founded, and taken together have the force alleged, it is apparent that there is something behind them when such conditions can produce such effects. Independent of any other consideration, would the fact of a dry goods merchant, knowing nothing about jewelry, keeping a trifling stock, curtail to any extent the business of the legitimate jeweler? Reverse the circumstances, and let the jeweler, knowing nothing about dry goods, add a few hundred dollars' worth of

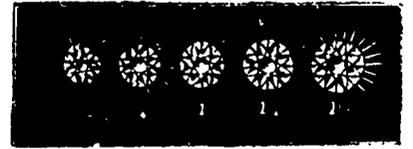
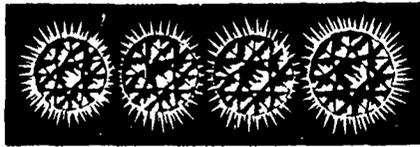
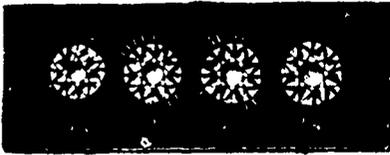


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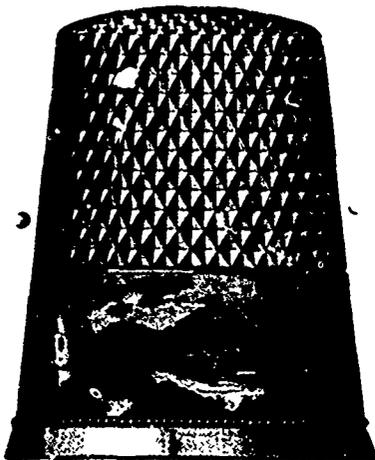


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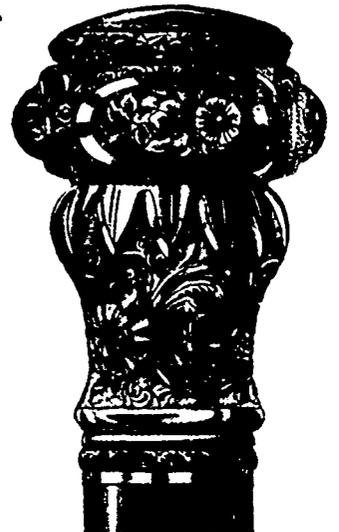
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dry goods to his stock, does he suppose he would do any material harm to the dry-goods dealer? Would an unknown jeweler, at a distance, by the use of cuts or catalogue, be able to take away trade from a local man, well known, and who has the goods for inspection with the fuller information he can give concerning them? Would fellow townsmen go to the cities to buy what they can buy quite as well at home? Would one town be different from another in the matter of support to the jewelry trade? Was any town a dry goods town until some live dry goods man made it such? Is not everything in the way of personal adornment largely a matter of copying or education?

A great disadvantage to jewelers is the difficulty in getting their wares before the people. Dry goods stores are visited with the formed intention of buying as a necessity, but with jewelry no such necessity exists and visits to the jeweler are mostly the result of an accident, it is to have some article repaired, with no thought beyond that. There is no idea of buying, and though, when there, one may suppose that a certain ring is dear, or vouchsafe the information that you have lots of pretty things, he or she, as the case may be, would hardly care to examine and enquire prices to any extent, and even should this be done, the information given would soon be forgotten. Of all lines, jewelry is the most difficult to select, difficult to the jeweler himself, and more so to the general public. A few purchases are made at first sight, the article being a felt necessity, but in most instances it is a case of admiration at first, passing through various stages of careful study and inspection to a purchase in the end. Price or value is Greek. Ask one \$15 or \$20 for a brooch set with rose diamonds, with the information that the gold is 15k fine and the diamonds genuine but small, and it is thought too cheap. Ask another \$1 00 for a plated brooch as large as a \$20 gold piece, and you are met with the query, "Is it pure or only washed?" A pin thought cheap by one would make another's hair stand on end.

Compared with other lines of merchandise, jewelry occupies the last place on the ground of necessity, is the most difficult of selection and its value or price is least known, with the result that not five out of twenty possible buyers become even interested or make an interested inspection.

Certainly the people are coming to the jeweler with indifferent success from the jeweler's standpoint, hence the importance of him doing all possible to go to the people. With this end in view, the Montreal jewelers have adopted a distinctly new method of window display. The system was introduced by Mr. Richard Hemsley in his Notre Dame Street store, and is the showing of the stock in the window, arranged in a simple, regular and attractive way, with the price plainly marked on each article. But one says, "Did not Mr. Hemsley give away his prices and stock to his opposition?" He did; his opposition saw exactly what he had to sell, with the price, and so did everyone else who passed his window. As for Mr. Hemsley, what he saw was an increased trade, which soon recouped him the expense, and induced him to put in just such another window in his new St. James Street store, and in addition, he saw his opposition adopt the general principle of his plan.

To be continued.

MR. PLAYTNER REPLIES.

Editor TRADER—SIR :



I NOTICED a question put to me in the last issue of THE TRADER. I will answer it, not because the writer imagines I cannot do so, but there are those in the trade who are deeply interested in the welfare of the Canadian Horological Institute and may expect an answer from me. I will say right here, however, that I do not propose to answer any more such questions, as all the time at my disposal is fully occupied in attending to the Institute. Regarding the writer of the letter, I do not know him at all, and as for his personal remarks they do not hit me, and I would in any case let them pass by. As regards the Institute, I propose to use strictly honest methods only, to promote its interests. I know that the feeling of the trade in general is with it, for I have received assurances that such is the case from some of the leading firms in the trade, but there are others who do not know me, these I ask to suspend judgment until such time as they may have actual knowledge of facts. I am utilizing my money, ability and time, I labor early and late to promote the interests of the Institute, and for a long time to come the trade alone will receive the benefits of the same, as it will take years before I can ever hope to gain anything from my labors. I am pleased to do all this, and all I ask in return is *fair play* and that consideration to which I may be entitled. I ask the trade to judge the Institute by the work that is performed in it; if it is found worthy, it will be glad to receive the moral support of the trade: if unworthy, it would deserve condemnation. When I say it is my ambition to make this school second to none other, and to make it in every way worthy of the name it bears, I am only speaking the truth. I have espoused its cause, and am prepared to stand by it, come what may. The harder the battle the greater the victory that follows it.

I intend to have a Board of Examiners for the Institute, composed of thoroughly representative members of the trade, this would at once place the trade in a position to pronounce directly upon the merits of the Institute, and would place me and my business in its hands. I am prepared to act in good faith in this matter, and am willing to stand or fall by the results. I can ask for nothing less, and it is impossible for me to do more.

Question.—Give the exact rule to make the roller table and fork of any lever watch when both have been lost or thrown away, and when these parts are made they will fit exactly so that the watch will go right off without filing or tinkering at it?

Before answering it I will give the following explanations: If the fork and roller are lost, no one can tell the original proportions in which they were made; if the escape wheel and pallets are lost, the primitive diameters require to be the same, not so with the fork and roller, we can select any proportions which we think are adapted for the work in hand, thus the radius of impulse, *i.e.*, the outer distance of the roller jewel from the centre of the balance staff, and the *acting* length of the fork, *i.e.*, from the centre of the pallet staff to the begin-



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Swivels,
Jump Rings,
Scratch
Brushes,
Emery Paper,
Dimantine,
Scales,
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ning of the horn, can be proportioned to each other as 3, 3.5, 4, 5 or 6 to 1.

From the way the question is put it would seem that the diameter of the roller is of first importance, such is not the case, however, the size of the roller should be determined according to the radius of impulse, it (the roller) should be as small as possible, just sufficiently large enough to allow for a crescent or passing hollow of proper depth and afford a strong setting for the jewel. The reason for this is quite apparent, when the watch receives a jerk and the guard point is thrown against the roller, the smaller the latter the less the friction in connection with it; the safety action is also more secure

THE FORK AND IMPULSE ACTION.

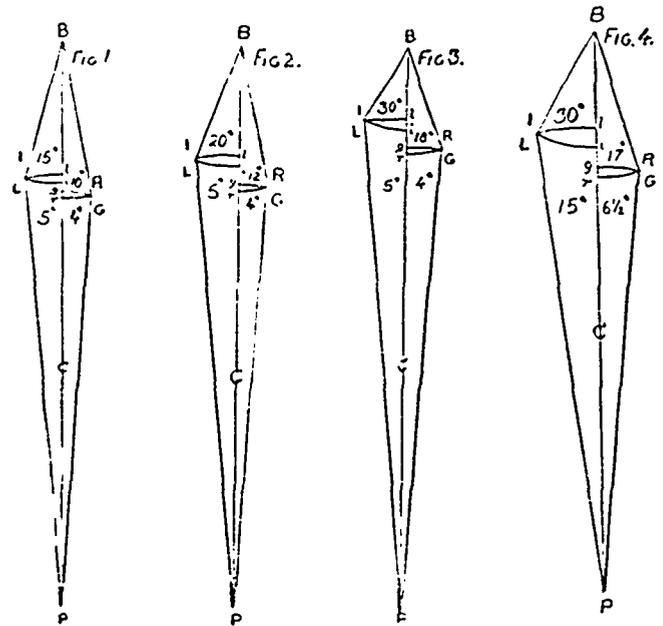
In the diagrams C = the distance of centres of pallets P and balance B , I equals the radius of impulse, L the acting length of the fork, this line is drawn through the centre of the fork when it rests against the bankings, R = radius of the roller and G the distance of the guard point from the centre P , I and L mark the intersection of the roller jewel and the acting length of the fork, R marks the course of the roller, G that of the guard point. In the diagrams the centre distance is the same in all cases, but the length of lever, radius of impulse, radius of roller, and distance of guard point from P , are all different. The lever must move the same amount on each side of the line of centres, in Figs. 1, 2 and 3, it is shown 5° to the left of C , this makes a total movement of 10° for the lever. In Fig. 1, I intersects L at an angle of 15° on each side of C , making 30° during which the roller jewel is connected with the lever, therefore, the proportions equal 3 to 1 for $\frac{3}{1} = 3$. In Fig. 2, I intersects L at an angle of 20° on each side of C , making a total of 40° , its proportion is as 4 to 1. In Fig. 3, I intersects L at an angle of 30° on each side of C , making a total of 60° , its proportions are as 6 to 1, any of these could be employed in the same watch. We have just noticed in Fig. 3 that the angle of intersection of L by I is 60° , in Fig. 4 it is also 60° , while the proportions are in one case 6 to 1 and in the latter 4 to 1, it will be seen that in Fig. 4, L moves 7.5° on each side of C , or 15° in all, while L in Fig. 3 only makes a total movement of 10° , in Fig. 4 the proportions are as follows: $\frac{3}{1} = 4$ to 1.

THE SAFETY ACTION.

The guard point requires 1° of play on each side of C , between the roller R and the banking of the lever, therefore, if the latter makes a movement of 10° , the angle of intersection of R by G would be 8° , or 4° on each side of C . In Fig. 1 the roller must of necessity be larger on account of the roller jewel being removed so far from the centre. It will be noticed that the safety action, and indeed the entire escapement, has to be constructed with more care in Fig. 1, than say in Fig. 3, too much shake of the pivots would render it a very unsafe action, therefore, such actions of 3 to 1 should be made in double roller, because the guard point or dart being further removed from the centre P , the radius of the roller could be made $\frac{2}{3}$ of I and the safety action rendered more complete. In Fig. 1, the roller could not be made with a greater angle of intersection than 10° on each side of C , because the setting

for the jewel would be weakened, the proportions of R to G , therefore, stand as 2.5 to 1 in Fig. 1, in Fig. 2, as 3 to 1, in Fig. 3, as 4.5 to 1, in Fig. 4, as 2.61 to 1.

It will be asked if an impulse action of 30° to $10'$ of the lever, requires such great care in construction, why do we use it at all? Why not construct them all as in Fig. 3, with an impulse action of 60° , and with a guard and roller action that is so safe? This must be answered as follows: It will be noticed that in Fig. 1, the action of the roller jewel with the lever commences and ceases nearer to the line of centres, that the balance is more highly detached, as it is only in contact with the escapement during 30° of each vibration, that the transmitting arm is shorter and the receiving arm longer, so that the same amount of power at the end of the lever arm will do more work than in Fig. 3, because it is applied under more favorable conditions.



The proportions in Fig. 2 give both a good safety and impulse action and can be used for ordinary as well as fine work.

All we can go by to find the various sizes in the watch at hand is firstly, the angle of movement of the pallets, which, of course, is also that of the lever, and secondly, the centre distance. One way of finding the angle of movement of the pallets is to engage the escape wheel and pallets at the proper depth in the depthing tool, the pallets must move friction tight between the runner and have a pointer fastened to them, put a graduated arc with the centre from which the degrees have been struck on the runner and let the scape wheel move the pallets until the tooth drops on the locking plane of the succeeding pallet, note where the pointer stands, move it $\frac{1}{2}$ further in the same direction, this is allowed for the "run," now move the graduated arc until the zero point is opposite the pointer, then unlock the pallets and let the wheel move them as before, again allowing $\frac{1}{2}$ for "run," the total so found is the angular movement of pallets and lever, this may be $8\frac{1}{2}^\circ$, 10° , 12° or 15° , although it will generally be found to be 10° .

The width of the bankings must also be measured, and the total movement of the pallets at this particular point must be



THE TORONTO SILVER PLATE CO.

TORONTO, CANADA.

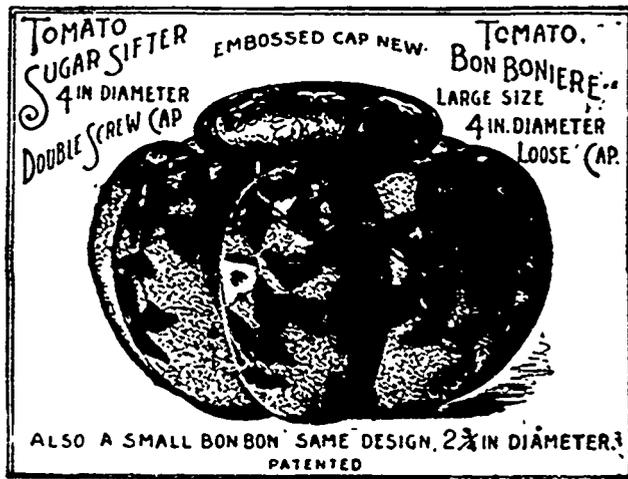
Manufacture the Highest Grades of Electro-Plated Wares, and guarantee all goods of their manufacture having their name and Trade Marks.



TOTAL HEIGHT 6 INCHES



6 1/2 inches to top of handle



WATCH FOR NOVELTIES.

SOMETHING NEW EACH WEEK.

E. G. GOODERHAM,
Manager.

J. C. COPP,
Sec.-Treas.



deducted from the width of the bankings, this will give the required width of the lever at this point

The horns do not require to be very long in a well made action, the end of the horns should at least point to the centre of roller jewel when the guard point enters the passing hollow. This should be made from one half to twice the width of the roller jewel, it all depends on the angular motion of lever and roller and the length of the lever and diameter of roller.

The roller jewel can be made of a width of 5° measured from P, with a width of 10°; it would begin its action on the line of centres, but impulse would be transmitted to it before the line of centres, so we will equalize the difference and make a compromise on 5°.

I had drafted an escapement showing all these points, but am very sorry to say no one could be found who would guarantee to make a cut and show all the lines.

We will now pitch upon the following proportions, we will suppose that the pallets in the movement at hand make a motion of 10°, we will take the proportions in Fig. 2.

- Total angle of movement of lever $L = 10^\circ$.
- Angle of roller (impulse) motion $I = 40^\circ$.
- Roller (safety) angle $R = 24^\circ$.
- Angle of intersection of guard point $G = S$.

ANSWER NO. 1.

Suppose $C = 1$.

$$\text{Radius of impulse } I = \frac{20^\circ + 5^\circ}{20^\circ} = \frac{\text{Sin } 42361}{\text{Sin } 42372} + 1 \div 5 = .224.$$

$$\text{Acting length of lever } L = \frac{20^\circ + 5^\circ}{20^\circ} = \frac{\text{Sin } 42361}{\text{Sin } 42302} + 1 \div 5 \times 4 = .896.$$

$$\text{Proof } I + L - \frac{\text{Sin } I}{\text{Sin } L} = 1.$$

$$\text{Diameter of roller } R = \frac{12^\circ + 4^\circ}{12^\circ} = \frac{\text{Sin } 27563}{\text{Sin } 27591} + 1 \div 4 = .283 \times 2 = 566$$

$$\text{Distance of guard point from } P = G = \frac{12^\circ + 4^\circ}{12^\circ} = \frac{\text{Sin } 27563}{\text{Sin } 27591} + 1 \div 4 \times 3 = .849.$$

$$\text{Proof } R + G - \frac{\text{Sin } R + G}{\text{Sin } R} = 1.$$

Reasons for these answers, we require the sines of the angles L and I , add them together, then divide them because they intersect or divide each other, add the quotient, which is the difference at C between L and I , to C which is the length of $L + I$, now divide the result so obtained by 5, because there are 4 parts to the lever to 1 for the radius of impulse, which gives us the value of the latter. If we now multiply the result by 4, we obtain the acting length of the lever.

The other answers are found in the same manner, the sines are obtained by a complicated trigonometrical formulæ. Those not posted in trigonometry can find tables of sines, tangents, etc., in hand books on the subject.

ANSWER NO. 2.

Take a smooth, straight piece of sheet brass, mark the distance of centres C , ten times the distance it is in the watch, place the centre mark of a protractor on P , draw L at an angle of 5° on one side of C , on the other draw G at an angle of 4° , now place the protractor on B , draw I at an angle of 20° and on the same side as L , on the other side draw R where these angles meet each other, marks firstly, the outer distance of the

roller jewel from the centre of the balance staff, and the acting length of the fork; secondly, the radius of the table roller, and the distance of the guard point from the centre of the lever.

The instructions before given will enable anyone to know what is further to be done, all the lines must be divided by 10 which will give the exact sizes required.

Extending a cordial welcome to the jewelers of Canada, and looking forward to the day when they will refer with pride and satisfaction to the Canadian Horological Institute.

Believe me,

Sincerely yours,

HENRY R. PLAYTNER.

P. S.—In Fig. 4, L moves 7.5° on each side of the line of centre; instead of these figures it is represented as 15° , which is the total angle of movement of L .

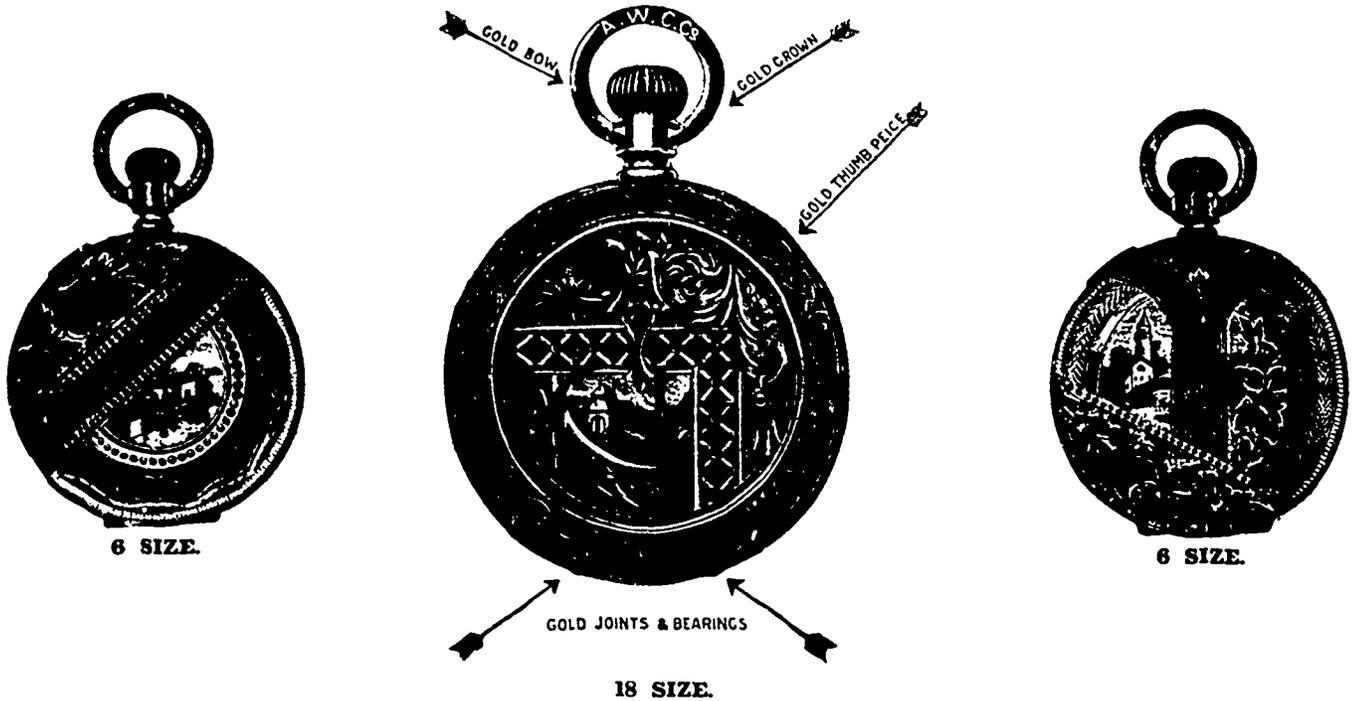
FROM OUR MONTREAL CORRESPONDENT.



REPLYING to the well-worn query for the best word a jeweler to-day said, "the summer is over." The very tone of his voice suggested a poetic mind, and your correspondent struggled hard to bring visions of hazy days and tinted leaves through his ordinary brain in order to enter into the conversation and say something nice, but in this case poetry would not poetize, the supply was too limited, and the common plan had to do service for a reply. "There is something about jewelry said he, that lifts a man up, that makes his heart sing, and gives fair play to his better nature, and that something is—selling it" Well, he may have had more or less poetry deep down in his soul, he certainly had a full show of business high up in his head, and welcomed the Autumn days for the increased business that has come with them. I need hardly add the same jeweler was having his share of the trade going.

The general conditions making the retail and wholesale trades noted last month is about reversed, and at present the retailers are having the best of it. The weather is simply "vile," if such a term can be made to apply, but even with this draw back, business with the retail trade is best described as fairly good while it savors of dullness with the wholesalers. This means that in the city the fall trade has begun, while in the country, dealers are supplied in readiness for the same interesting development as soon as the farmers realize on their produce. This will come a little later: when money is running, a share always comes to the jewelers and this year the country has the wherewithal to put the cash in motion. The impetus given to the lumber trade through the recent revision of tariffs, in which this district is largely interested, will also help trade in the near future. The manufacturers are busy.

Bolt & Co., manufacturers of rolled plate and gold chains, gold rings, etc., are working full time and to their full capacity, and yet are somewhat behind with their orders. The rolled plate chain manufacture is the baby jewelry industry of Canada, and one is not long in Bolt & Co.'s factory before being convinced that the youngster is decidedly healthy and is here to stay.



BEST FILLED CASE IN THE WORLD FOR THE MONEY.

The American Watch Case Company of Toronto ask the attention of the Jewelers of Canada to their line of Hunting Gold-Filled Cases, now in the hands of the Jobbing Trade.

These Cases are made in 10k. and 14k. quality, and every one of them has **SOLID GOLD BOW, CROWN, THUMB PIECES, JOINTS AND BEARINGS**, and is guaranteed to be the best value Watch Case in the world for the money.

They are equal to Solid Gold Cases in workmanship and finish, and are fully guaranteed by the American Watch Case Co., no matter by whom sold.

All of these Cases bear one of the following Trade Marks, according to quality.

14k. Hunting, 18 Size	Are Stamped "CASHIER"	10k. Hunting, 18 Size	Are Stamped "FORTUNE"
14k. Hunting, 6 Size		10k. Hunting, 6 Size	

These Cases are made of Filled Stock where Filled will wear equal o Gold, and of Solid Gold everywhere else. If you want to build up a reputation for selling first-class goods at moderate prices, handle the Cases made and guaranteed by

THE AMERICAN WATCH CASE CO.

67 ADELAIDE STREET WEST, TORONTO.



The project is no longer an experiment but a decided success, the product being pronounced equal in quality and finish to the best imported, while the patterns are specially adapted to the wants of the Dominion trade. Dame Canada is to be congratulated on this addition to her important industries, which besides saving the duty, puts money into circulation among her own people instead of going to the land that wants to sell everything and buy nothing.

The Montreal Watch Case Co. also continues to thrive in the sunshine of the jewelers' patronage, with perhaps the modest satisfaction to the Company that the product of their factory fully deserves the patronage they receive. The finish, style and quality are such that in a fair field and no duty the foreign cases would do little if any more than hold their own. Richly chased designs in Shell or Princess patterns in ladies' sizes a specialty, and in these the Company are showing some elegant goods, besides which they have a large assortment of regular lines in all sizes. "All we can do," was the answer given as to the condition of trade.

Simpson, Hall, Miller & Co. are always busy, they seem to have been born that way and continued on with the prospect of doing so to the end. "We have right goods, sell at right prices, advertise in the right way, treat our customers right and are right up to the head with orders," is about the way their manager puts it. A clear case of all "right" with a moral.

All is rush in the Montreal office of Robbins, Appleton & Co. general agents for the Waltham Watch Co., watches coming in and disappearing as fast as they come, showing that the "Waltham" has lost none of its old time favor with the jewelers and people of the Dominion. The manager, Mr. Harman, says they are busy at the factory and very busy in his office; that while the Company have no surplus to speak of in any grade of movement, he is supplying the Canadian demand, with the exception of seven jeweled open face stem and seven jeweled key. He expects larger lots of these to arrive in the near future, and explains that this summer his Company had no dull months in which to make up the usual supply, hence the shortage. The fact is the Company should have another wing extended clean up into Canada. Canadians would have no objection to the said "wing." This is to tell the Waltham Co. about it; perhaps they don't know.

Death has again stepped into the ranks of the old time jewelers and taken from them Mr. Alex. Stewart, Sen., of Richmond, Que., at the ripe old age of 73 years. Mr. Stewart was formerly in the City of Quebec, where he did a repairing business only, and moved to Richmond some thirty-five years ago. He bought his first stock from Mr. John H. Jones, of the present firm of John H. Jones & Co. of this city, then manager for the late Robert Wilkes. The invoice did not exceed \$100, and consisted of such goods as hard solder and silver rings, S. S. bracelets, Swiss silver Ancre watches, etc. The commencement was thus small, but Mr. Stewart had practical skill, judgment, energy and perseverance, with a fine sense of honor and upright-ness, some harbingers of success to back it up, and from this beginning he built up one of the best businesses in this province. Although conservative of method, he was in no way wedded to the old, and was not slow to adopt the new when the new had

advantages, but the stock argument of trashy wares, "just as good and cheapest," had no effect, price was placed second to quality. His great effort was to keep perfect faith with his customers, whether in repairing or selling, and in this he reaped the same reward,—implicit and continued confidence, a matter of paramount concern to the mind of a just man, and success as well. In private life he was hearty and genial, a true friend in the best sense, and so was highly respected. Many in the trade, and more out of it, will have heard with sorrow that Mr. Stewart is no more. In recent years his business has been ably managed by his son.

Mr. D. R. Dingwall, wholesale and retail jeweler, Winnipeg, Man., paid our city a buying and pleasure visit during the month. Mr. Dingwall is an old Montrealer, and, referring strictly to locality, divides his affections between Winnipeg, Montreal and another city over the sea in the direction of Ireland, but not in it. The insinuation of the prevarication in the case of the man who said the lake went down when he hauled the fish out, prevents the use of a similar illustration, but from all accounts, the stocks of several of our jobbers underwent considerable change as the result of Mr. Dingwall's visit. Speaking of prospects for business in the North-West this fall, he said all depended on the amount of damage done to the crops by the continued rains, and this could not be definitely known until the threshing is done. Mr. Dingwall is very confident that Winnipeg is yet to be the great centre, booms and summer frosts being the only visible obstacles. "Don't be surprised when you see Montreal merchants going to Winnipeg to buy their fall stocks," said he, referring to return freights by the Hudson Bay route. I said "I wouldn't."

Mr. Fred. Hitchins, of Beauharnois, also paid our city his usual fall visit. Mr. Hitchins has the reputation of having one of the finest jewelry stores in this district, barring a few in the city. His visit about this time is as sure as wet weather. He is one of the kind of gentlemen that is always welcomed in a merchant's office, if he calls to buy a big bill he is welcomed, if to buy a small bill he is welcomed, or if only to shake hands and chat awhile he is welcomed. Mr. Hitchins says business in his town is on the dull side naturally at this time, and if you want information about the fall trade he can tell you better next January.

A somewhat unusual occurrence in our city was a case of highway robbery, the victim being Mr. James Pilgrim, manager of Mr. J. C. Bolt's Bleury Street jewelry establishment. Mr. Pilgrim had closed the store as usual and was going home, about 10 p. m., along Sherbrooke Street, when, on nearing Laval Avenue, three men sprang out from the doorway of a house in course of erection, and while one clutched his throat, the others carried him to the back of the buildings, where they went through his pockets and leaving him stunned made good their escape. The police were notified but without result to date. It is not known whether the robbers were drunken rowdies lying in wait for the first solitary passer by to obtain money for whiskey, or whether it was a deliberate plan to catch Mr. Pilgrim, with the expectation that he would be taking home valuables for safe keeping. If the latter was the idea, the scoundrels were badly sold, for all they obtained was a watch which may yet be heard



ALBERT KLEISER, 14 KING ST. E. TORONTO.

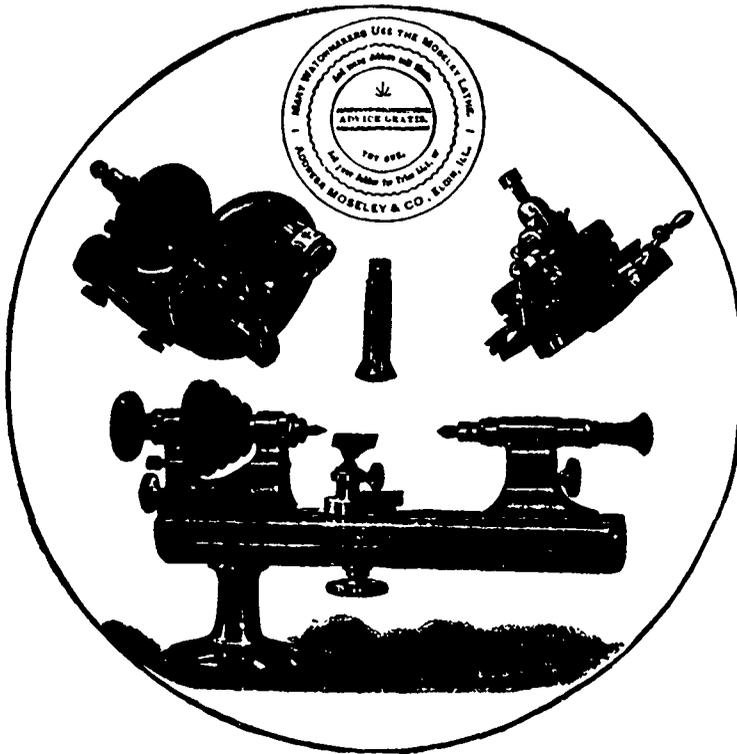
.. Importer of ..

*Watchmakers' Tools and
Materials.*

Watch Glasses.

*Martin Mainsprings
For Swiss & American Watches.*

*Sole Agent for the Celebrated
--- Moseley Lathes ---
for the Dominion.*



IMPORTANT.

A WATCH MOVEMENT has been manufactured and sold by the Aurora Watch Company of Aurora, Illinois, and is being manufactured and sold by the Illinois Watch Company of Springfield, Illinois, and the Columbus Watch Company of Columbus, Ohio, in which the winding and hands setting train is moved into or out of engagement with the winding wheel or the dial wheels by the longitudinal movement of the stem arbor. Such construction is fully covered by Letters Patent, Reissue No. 10,631, issued August 4th, 1885, which patent is owned by us, as has just been decided by Judge Blodgett of the United States Circuit Court in a suit against the Aurora Watch Company. In such decision the Judge holds that the said patent is a good and valid patent, and that the defendant's movement infringes the same, and orders a perpetual injunction to issue restraining the said company from further infringement. (Similar suits, under the same patent, are being prosecuted in the United States Courts against the Illinois and Columbus Watch Companies for the Infringement of our rights)

The purchase, sale or use of either of the hereinbefore named Watch Movements is in violation of our rights, and we hereby notify the trade that from this time we shall hold each person or firms dealing in such movements directly responsible for the infringement.

(Signed)

R. E. ROBBINS,

T. M. AVERY,

Trustees for the American Waltham and Elgin National Watch Companies



from and some small change. Mr. Bolt is by far too shrewd a business man to have any such scheme worked at his expense, his goods are secured in suitable safes. The locality of the robbery is in the heart of the city, but at present the block is being rebuilt, while the street is darkened by large trees hiding the electric lights. Mr. Pilgrim is at work again, none the worse, I am glad to say, for his experience, only he goes home by another route now.

Mr. P. White, jeweler, Notre Dame Street, some time since gave a silver trumpet for competition among the hose reel companies. The firemen took a lively interest in the contest, each company being determined to win that trumpet for its station, and Mr. White has the satisfaction of knowing that the winners in the recent trial made the best time on record. Mr. White's public spirited action in thus promoting and encouraging efficiency in the Fire Department is to be commended. Fire always omits to give due notice before starting operations, and every man is thus interested in a first-class fire service.

Mr. Abbott, manager of the Montreal branch of Messrs. Smith & Patterson, Boston, U. S., is back again from a visit to headquarters. Boston is getting to be ancient history to Mr. Abbott now, good enough to visit occasionally, but Montreal is home. Mr. Abbott don't exactly say it in this way; it's his friends, and he certainly looks happy enough here to be at home, and I guess he is. His visit was to secure for his Canadian customers a full share of the snaps in American goods that his firm always secure at this season.

A legal decision of interest to jewelers in this province was rendered by Judge Jetté on the 11th inst., in the case of Beauchamp vs. Martin. The plaintiff, a jeweler, sold certain goods to defendant's wife, and receiving no pay took action to compel Martin to make returns. Martin endeavored without success to obtain the jewelry from his wife that he might return it, and explained that the goods had never been in his possession nor had he authorized the purchase, and hence was not responsible in the matter. The Court decided that Martin's defence held good and dismissed the action. Cases like this are very few, but it is not the less important to know when you are in like circumstances.

Mr. Alfred Eaves, President of the Jobbers' Association, was noticed about the 10th inst. to be in unusually good humor. Mr. Eaves is one of the first in the trade, and so it was thought some unusually big buyer was in town, but the evening papers revealed the secret; the new arrival in his family is a daughter. Mr. Eaves will please consider himself congratulated.

Montreal, Oct. 20th, 1890.

MUCILAGE FOR BACKING LABELS—Mix pure dextrine with boiling water, until it assumes the consistency of ordinary mucilage. Apply with a full, evenly made camel's hair brush. The paper should not be too thin or unsized.

TO WRITE ON SILVER.—To write on silver, the tracing of which will never fade, take burnt lead and pulverize it; stir it with sulphur and vinegar to the consistency of paint, and write with it on silver plate. Let it dry, then hold to the fire so as to heat the work slightly and the tracing is indelibly fixed.

PRACTICAL HINTS ON WATCH REPAIRING.

BY EXCELSIOR.

THE SPRING DETENT OR CHRONOMETER ESCAPEMENT.

(534) The chronometer escapement has a pointed-tooth escape wheel; two rollers mounted upon the balance staff, with a compensation balance, and ordinarily with a cylindrical hair-spring; a spring detent, and an unlocking spring. The escape wheel acts upon a jewel or pallet fixed in the impulse roller, and called the impulse pallet. The detent also has a flat faced jewel called the detent or locking pallet, which drops into the wheel and locks each tooth successively after an impulse has been given to the balance. It is caused to thus enter the wheel circle by a spring, which is either a part of the detent itself, near the place of its attachment to the watch plate, as in the English style; or, as in the Swiss style, the detent is mounted upon a pivoted staff, having a light hair-spring of sufficient strength to cause the detent to drop instantly into the wheel circle when it is released from the unlocking jewel. An unlocking or discharge roller is fixed upon the balance staff, underneath the impulse roller, having a small jewel called the unlocking or discharging pallet. The unlocking, discharging or "passing" spring is a long and fine spring, generally of gold, attached by one end to the detent, while the other intersects with the unlocking pallet. It is attached to the detent on the banking side, or next to the wheel, being free to yield in that direction, but rests against the detent in the other direction.

(535) The operation of these parts is as follows: An impulse having been given, an escape wheel tooth drops upon the detent pallet and the wheel is locked in that position, leaving the balance entirely detached and free to vibrate, governed only by the hair-spring. The balance vibrates forward half a turn or a little more, (225°), and then returns. As the impulse pallet reaches the escape wheel, the teeth are locked in such a position as to allow it to pass without touching them. When the unlocking pallet comes to the detent it strikes the end of the unlocking spring on the detent, and easily forces it back far enough to pass it without much effect upon the momentum of the balance, because the spring is long and thin, and has no support to rest against, while the unlocking jewel is near the balance axis. The balance therefore continues on its return or backward vibration, having passed the detent and the escape wheel without causing any action or motion by them. Having reached the limit of its backward vibration, it again returns forward. As it approaches the line of repose, the unlocking jewel again strikes the gold spring, but the latter being now supported behind by the point of the detent, very near to its end, the consequence is that the unlocking jewel forces both the gold spring and the detent back together. This motion of the detent carries the locking pallet back out of the wheel far enough to free it, and the tooth behind the impulse pallet then drops upon it and gives the balance another impulse, and so on, as before. The detent being now released by the unlocking pallet, immediately springs back to its place, in time to lock the wheel as soon as the tooth leaves the impulse pallet, rests against a banking screw or pin provided for adjusting the depth



THE AMERICAN WATCH CASE CO.

KEEP YOUR EYE ON OUR REGISTERED TRADE MARKS.

CAUTION.



As some misapprehension seems to exist amongst the retail trade regarding the Watch Case Factories of Toronto, and their products, we deem it but fair to ourselves and the jobbers who handle our cases, that they should be placed in the hands of the trade distinctly upon their own merits as the product of the American Watch Case Company, which has always been sold exclusively to the legitimate jewelry trade.

Every retailer is aware that there is now more than one company manufacturing watch cases in Toronto.

As the product of these factories is commonly

spoken of as "*Toronto Cases*," it will be readily seen that a false impression may unknowingly be conveyed by a salesman selling these goods, and it is to correct this that we make the following announcement:

EVERY Gold Filled Case made by our Company bears our registered trade mark of "*A Winged Wheel*," and every Gold or Silver Case made by us bears our registered trade mark of "*A Maltese Cross*."

An experience of five years has satisfied the jewelry trade of Canada that every case bearing one of our trade marks, is just what it is represented to be and nothing else. The Company therefore respectfully ask the trade when they are buying watch cases to examine the stamps thoroughly, and see that they bear one of our trade marks as shown herewith, *as they absolutely refuse to guarantee any case which is not so stamped.*

THE AMERICAN WATCH CASE CO.,

67 Adelaide Street West,

TORONTO.



When you purchase a Gold Filled Case examine it carefully and see that it bears our Trade Mark of a "*Winged Wheel*." We guarantee no others.



When you purchase an 18 K. Gold Case examine it thoroughly and see that it bears this Trade Mark. We guarantee no other.



Every 14 K Gold Case made by the A. W. C. Co., bears this well-known Trade Mark. Look for it. We guarantee no other.



Our "*Lion*" Gold Cases are universally admitted to be the best cheap Gold Case ever made. None are genuine without this Trade Mark. Look for it.



With the exception of our N. P. every Silver Case we manufacture bears this Trade Mark. No others equal them in quality. If they bear this impress you will be safe in buying them.



Our "*PREMIER*" 14 K. Gold Filled Screw Dust Proof Case is the cheapest and best in the world. You are perfectly safe in guaranteeing them to your customers and there is money in them for you.

67 ADELAIDE STREET WEST, TORONTO.

LOOK FOR OUR STAMP IN EVERY CASE OF OUR MAKE.

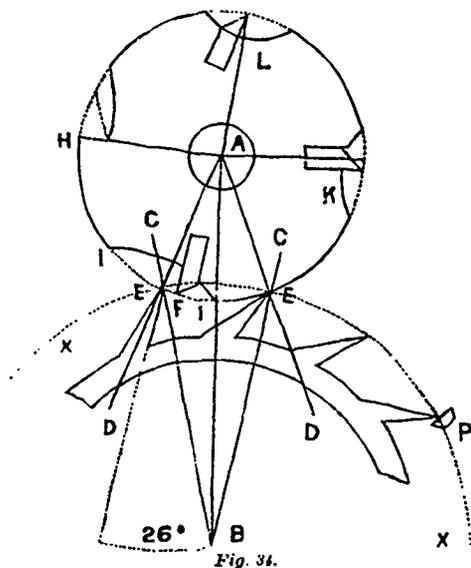


of its intersection with the wheel circle, and holds the wheel till the next forward vibration of the balance.

(536) The chronometer escapement may therefore be divided into three actions, viz: The wheel and roller, whose function is impulsion; the wheel and detent, whose functions are "draw" and locking; and the roller and detent, whose functions are "passing" and unlocking. This escapement has three general faults: overrunning, tripping and setting. All will be fully considered in the course of these articles, giving their causes and the remedies, when treating of the different actions in which they occur. For examining the jewels, pivots, etc., see the directions therefor given in connection with the other escapements already described. For testing, examining, correcting and adjusting the hair-spring and the balance, full directions for every possible emergency will be found in the sections previous to (276). Further examination of the chronometer escapement cannot well be made without understanding the principles upon which it is or should be constructed. We will, therefore, proceed to consider them, taking up the three actions separately, in their order.

THE WHEEL AND ROLLER ACTION.

(537) The wheel and roller action relates to the giving of the impulse to the balance by the action of the escape wheel upon the impulse roller. To draw this action, Fig. 34, we will



suppose that we have a certain centre-distance, or distance between the pivot holes of the balance staff and the escape wheel, and want to know the proper sizes for a wheel and an impulse roller for that centre distance. First, measure the centre distance very carefully, either with a good depthing tool or properly pointed pump dividers, (339, 341), taking pains to hold them exactly vertical or perpendicular to the plate, and the two points projecting out the same distance. Then increase the distance say ten times, for securing clearness in the drawings. This is most easily done by pricking off the distance ten times on a fine straight line drawn in ink on smooth paper, and the distance between the first and last pricks will be the enlarged centre distance. Transfer this to your drawing paper, and connect them by a straight line, calling *a* the balance centre, and *b* the wheel centre. The wheel we will say has fifteen

teeth, therefore the distance between the points of two adjacent teeth will be $\frac{1}{15}$ of the circumference of the wheel, or 360° , which is 24° . With a protractor we lay off lines *bc*, *bc*, 24° apart, and 12° each way from *ab*, and the points of two teeth will be somewhere in these lines, their distance from the centre *b* depending on the size of the wheel.

OPTICAL DEPARTMENT

Under this head we solicit questions of interest bearing on optics, particularly the eye, the defects of vision, and their correction by glasses. All communications must be addressed to Dr. John S. Owen, 142 West High St., Detroit, Mich., and must be received not later than the 15th of each month in order to insure publication in the following issue of THE TRADER.

QUES. 6. "I have a case, a young man who is a telegraph operator about twenty-five years old. His right eye is of no benefit to him without glasses, and but little with them. He is wearing about a + 20" S. glass to assist him at times, I find by a test that the left eye, the one he uses, requires A. -24" S. \ominus + 24" Cyl. Axis 90° and the right eye + 10" S. for distant vision. I put a -22" S, the nearest I had in a frame over the left eye, and a + 11" S. over the right. This improved vision very much, but the pain was so great that he could not wear them but a few minutes. I then changed the + 11" S. to + 24" S. over the right eye but he thought the pain almost as great.

"Will it be possible to bring them together, or would it be better to fit only the best eye and cover the other with a plain glass? Will it not give pain in bringing the best eye up, from the fact that he has been wearing a convex lens over the myopic eye?"

"I could not guarantee any glass that I could give him not to give some pain for awhile at first, and for that reason he would not give me an order."

ANS You have made a mistake in the beginning. The combination "-24" S. \ominus + 24" Cyl. Axis 90° " before the left eye is an error. If the -24" S. was the first lens fitted, and the +24" Cyl. Axis 90° was added to it, the +24" Cyl. would completely neutralize the -24" S. in the 180° meridian, and would render the combination equal to exactly -24" Cyl. Axis 180° which lens would answer the same purpose as the combination and would also be less expensive.

It would be impossible to "bring the eyes together," *i. e.* to wear the same glasses when they require different ones. We have known of eyes "coming to glasses," but it is only after months of pains and aches, and then only in rare cases. It would be similar to making a tall man grow short by causing him to carry a heavy weight on his head.

It would be better to fit the best eye with its correct lens and cover the other, than to try to bring them together, but this also is very poor practice, the result of which would probably be that the visual perceptions or sight of the covered eye would through disuse gradually grow less, until the sight would at last fail to respond to any artificial aid in the form of lenses.

The best course is to correct each eye for the distance (20 feet or further), and if convex lenses are required they will also be suitable for constant use. If concave lenses are required for distant vision their strength should be reduced for reading until the weakest lens is found that will enable him to read at a suitable distance, viz, 12 to 16 inches from the face.

The correct lenses, whether they be convex or concave, will probably cause some pain and inconvenience for several weeks, or until the eyes have become accustomed to the change.

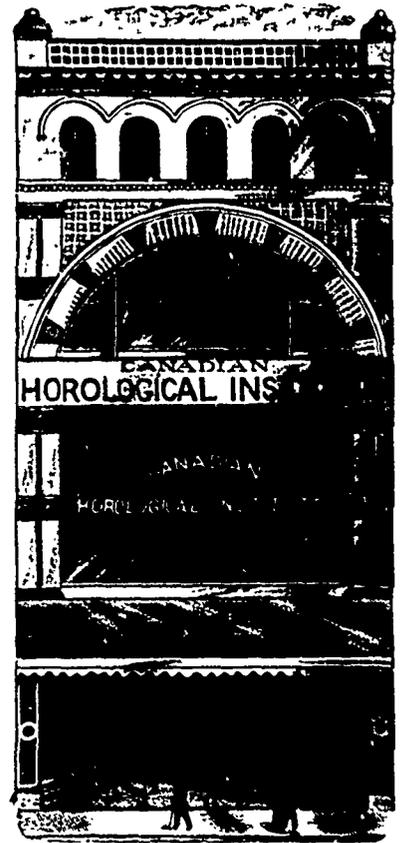


Have you got the laudable ambition to be a first-class Watchmaker? if so, the Quickest and Cheapest road to your goal is by taking a course at

.. The Canadian ..
.. Horological Institute ..

133 KING ST. EAST,

©.....TORONTO.



THE INSTITUTE is prepared to do all kinds of trade work. We guarantee satisfaction. The management is determined that absolutely nothing will be turned out at the Institute that is not a thorough job. This is one of the points on which the reputation of the Institute will be built up. It affords the Trade throughout the Dominion an opportunity to judge us by our works.

We cut Stem Wind wheels.

An impression seems to have gone abroad that every student at the Institute must construct a watch; such is not the case, however. We place in the hands of every student a first-class American lathe, with chucks, universal head, slide rest, wheel and pinion cutters, wig-wags, etc., and instruct them in wheel and pinion cutting, turning, jewelng, springing, escapements, etc., and when thoroughly competent we give them trade work, from which they receive half the proceeds.

We aim to turn out first-class workmen in every respect. We are pleased to supply any information to the Trade. Address,

CANADIAN HOROLOGICAL INSTITUTE.

ENDORSEMENTS.

THIS CERTIFIES That Mr. Henry Playtner has been in my employ for nearly three years, and I can truly say that he is a *first-class watchmaker*, quite competent to repair and replace any part in any high grade watch, including chronometers, minute repeaters, split seconds, etc. He is also industrious and honest, and is greatly devoted to his chosen calling; one of his traits is his ability, painstaking and eagerness to impart to others the knowledge which has taken him years of hard work and *persistent* study to acquire. I can confidently recommend him to all who wish to improve in the art of watchmaking. I may also say that he makes no idle or rash promises, my experience of him has been that he fulfilled to the letter whatever he agreed to do.

TORONTO, Aug. 19th, 1890.

J. P. MILL, 445 Yonge St.

THIS CERTIFIES—That we fully endorse The Canadian Horological Institute, and recommend the same to the favorable consideration of the trade.

ALBERT KLEISER,
W. K. McNAUGHT,

P. W. ELLIS & CO.,
LEVY BROTHERS.

EDMUND SCHEUER,



Louis Davis & Company.

MONTREAL.

WHOLESALE JEWELLERS & DEALERS IN
PRECIOUS STONES.

NOVELTIES ARE OUR **GREAT SPECIALTY**
IN EVERY LINE OF GOLD & SILVER JEWELRY.

THIS WE MAKE *The Feature* OF OUR BUSINESS.

Sole Agents in the Dominion of Canada for the Celebrated Window Fronts
and Shop Fixtures of **F. SAGE & CO. of LONDON, ENG.**

CATALOGUES AND ALL INFORMATION IN CONNECTION WITH SHOP BUILDING &
WINDOW FITTING SUPPLIED BY MAIL UPON APPLICATION.





JOHN WANLESS & CO.

The house of John Wanless & Co., retail and manufacturing jewelers of Toronto, is not only one of the most respected, but one of the oldest jewelry establishments in the Province of Ontario, having been originally founded at Niagara by the late Wm. Bell about the year 1835. A few years residence in that ancient burgh convinced that gentleman that Toronto, or Little York, the name by which it was then commonly known, offered the more desirable future for his calling, and in 1840 the business was accordingly removed to this city and located on Church Street, where it remained until 1846, when it was transferred to its present location, No. 172 Yonge Street.

In this spot it has quietly grown from year to year, until it has reached its present stage of development, and now occupies a warehouse which is without doubt one of the most elegant and commodious in the Dominion of Canada.

In 1861, Mr. John Wanless, then a young man of 31, succeeded to the business, which under the influence of his energy and sound judgment soon began to exhibit evidences of a steady improvement in keeping with the growth of the city.

In 1870, the old two storey frame structure which had for nearly a quarter of a century served the double purpose of store and dwelling house, was, like many another of Toronto's old land marks, torn down in order to make way for a brick store in keeping with the progress of the city. In this new building the business continued to flourish and expand until the present year, when the firm

(which had now been increased by the addition of Mr. John Wanless, Jr., as partner) finding it altogether inadequate for the altered conditions of their growing trade, decided to enlarge and improve it.

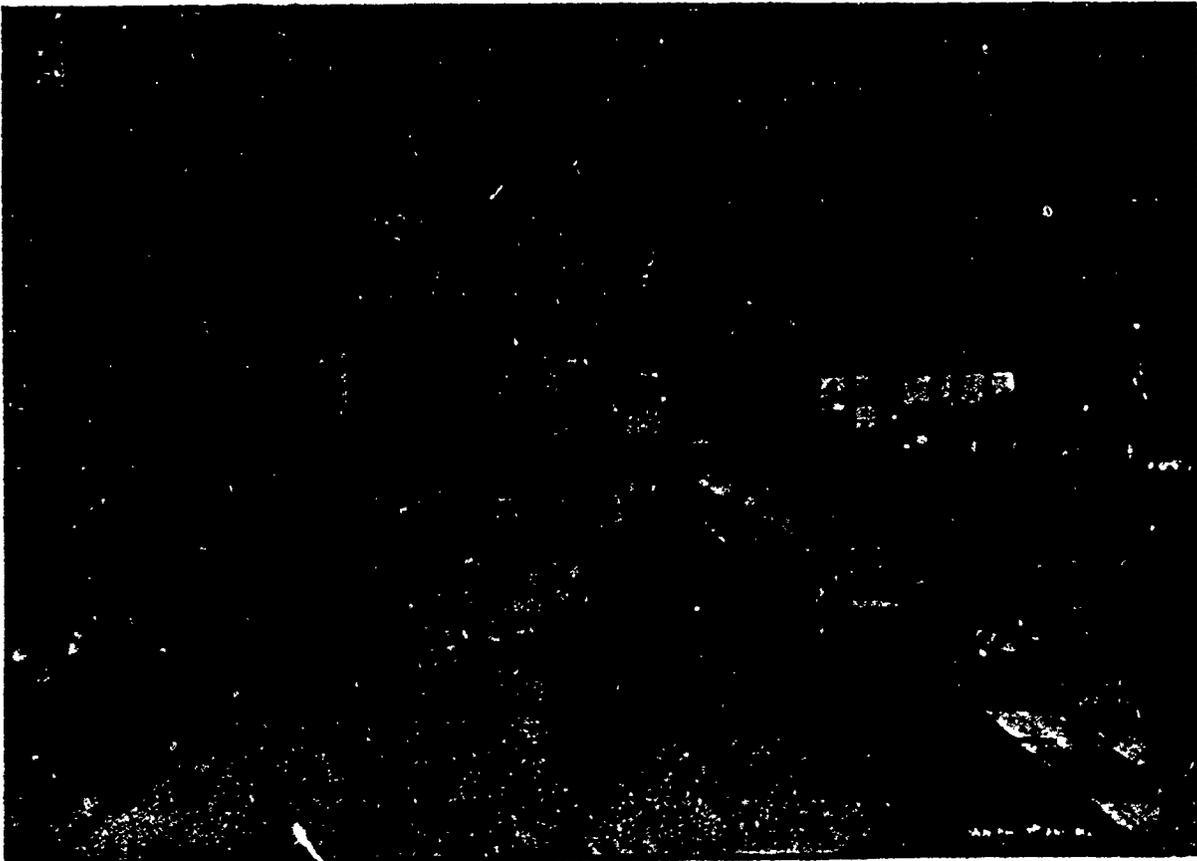
This work, which practically amounted to rebuilding the entire premises, and occupied nearly six months, has been fully completed, the result being that the firm are now in possession of a handsome monument of the builder's art, containing all the modern improvements and thoroughly abreast of the times, which could not be duplicated for less than \$20,000.



JOHN WANLESS, Sr., J.P.

The new building has a frontage of 24 feet, and an entire depth of 100 feet. It is four stories high, and has an attractive and imposing front of red pressed brick and Credit Valley sandstone. Although the outside of the premises presents a marked contrast to the previous structure, the internal changes are not less decided and pleasing, as the following description taken from one of our city dailies at the time of its opening will testify:

"Its richly decorated walls and ceilings, elegant furniture, cases shining with polish and sparkling with jewelry of all descriptions, form a picture which is little short of enchanting. From the entrance to the jewelers' workshop there is an endless variety of objects to arrest the attention and please the fancy. A spacious window of the finest plate glass adorned with annealed ornamentation contains cases filled with a great variety of jewelry novelties. Passing



through the entrance a long row of walnut and silver cases on solid cherry tables bends to the right and runs down the length of the place. Down the centre handsome solid cherry tables with velvet centrepieces are ranged, holding bronze figures of many postures and depicting a great variety of life. These form an artful accompaniment to other goods displayed, chief among which

are the marble clocks, scores of which are on view at the left hand side. The handsome wall cases of plate glass in solid cherry appear to their full advantage, being set off with the massive silverware inside. At the end of the ware room the



CHILDREN'S RINGS.

Children's Rings to sell well must be DURABLE, NEAT and CHEAP. This assortment of nice chased patterns is exactly the thing that is wanted, and particularly at this season of the year are in great demand. They are full 9k. Gold, and made in sizes from 5 down to a little less than 1. Price, \$4.20 per doz., or 2 doz. for \$8.00.



BANGLE BRACELETS.

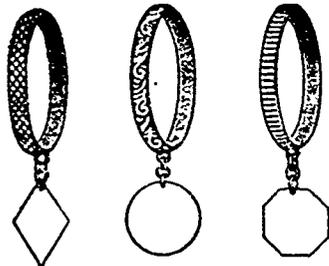
Solid Silver in 13 taking patterns, assorted as desired. Our October sales in this line exceeded any previous month. Try a dozen and you will order more.
1 doz. \$2.35, 2 doz \$4.60, 3 doz. \$6.75.

FRIENDSHIP, BANGLE AND INITIAL RINGS.

We had not intended to advertise these rings this month but the increasing demand has made it necessary. To those who have not tried them yet we would say, we do not think anything was ever offered before that sold as well, and we think that ours are heavier, better finished, and nicer patterns than any other make.

Solid Silver, with bangles, \$1.60 per doz., with initials, \$2.10 per doz.
Solid Gold, 9k., with bangles or initials, \$7.20 per doz.

All of the above are staple goods that sell quick, and will be mailed, post paid, to any address on receipt of price.



G. H. LEES & CO., MAN'G JEWELERS, WATCHMAKERS & ENGRAVERS, **HAMILTON.**

For Time, Appearance and General Satisfaction,

THEY

WATERBURY WATCH

Is UNEQUALLED by any other low-priced Watch
IN THE WORLD.

THERE is a larger percentage of profit in the sale of WATERBURY WATCHES than ANY Watch in the market. Think of this, and then ask yourself why you handle cheap Swiss watches, when every one you sell will prove a boomerang. Give your customer good value for his money and you make a friend of him or her, do otherwise and you lose a customer. Send for our Catalogue showing different Dials and Fancy Cases.

NO ENTERPRISING JEWELER SHOULD BE WITHOUT OUR GOODS IN STOCK.

THE WATERBURY WATCH CO.,

81 KING STREET EAST, . . . TORONTO, ONT.



watchmakers' room is situated, and further in the rear the jewelry manufacturers have a separate department. The cash desk and private office is in the centre of the wareroom at the right side. It is an elegant piece of work in solid cherry. Behind this is a J. & J. Taylor burglar-proof safe of the most approved design. There are two safes, one inside the other, the smaller being used for the costliest goods. Incandescent electric light and gas are used for lighting, and steam for heating."

The firm give employment to ten persons on the premises, and in addition to the goods they buy and sell in the ordinary way, they manufacture a large line of special goods, such as diamond jewelry, medals, etc.

Mr. John Wanless, the senior member of the firm was born at Longformacus, Berwickshire, Scotland, on the 18th of February, 1830. His father, the Grammar School Teacher and Registrar of the parish, was a gentleman of more than ordinary culture, and well known and highly respected throughout the district. Having passed his youth amid such favorable surroundings, it is little to be wondered at that Mr. Wanless imbibed so thoroughly those principles of perseverance, self reliance and integrity, which have not only made his own career a success, but have won for his compatriots a place amongst the foremost men in every civilized country on the face of the globe.

In the year 1851, like many another young and hopeful Scotsmen, Mr. Wanless left the old fatherland and crossed the ocean in search of home and fortune in this western hemisphere. That he has achieved a success in every respect is a matter that any citizen of Toronto can truthfully testify. In business he is not only genial and obliging, but strictly honorable in all his transactions, and it is in a great measure owing to this happy combination of qualities that his success has been achieved.

His popularity amongst the jewelry trade is evidenced by the fact that at the organization of the Canadian Retail Jewelers' Association, he was elected

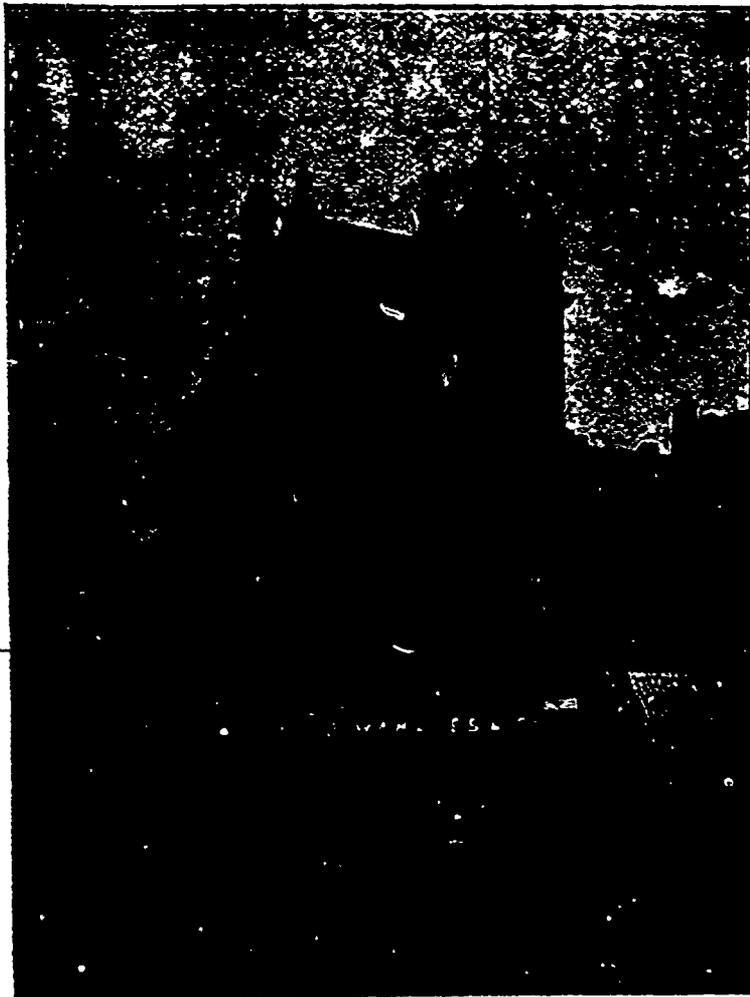
treasurer by a unanimous vote, a position which he has continued to fill with acceptance ever since. He also holds the important position of a Justice of the Peace for the County of York.

At the commencement of the present year, feeling that he had earned the right to more leisure than he had heretofore enjoyed, Mr. Wanless took into the firm his eldest son John Wanless, Jr., who had for the previous five years been acting as his assistant in the business. Upon this young gentleman now devolves the general oversight of their large and growing business, a task for which his training had fully qualified him and for which he is in every way competent. Mr. Wanless, Jr., having literally grown up in the business, it goes without saying that he is thoroughly conversant with the jewelry trade. He has a pleasing address, is well liked by his customers, and it is safe to predict that under his management the old house will preserve the high reputation for fair and honorable dealing so long enjoyed by it.



JOHN WANLESS, JR.

The portraits illustrating this article will give our readers a very good idea of the personnel of the firm, the front elevation of the store, and also the interior decorations and fittings. It will pay any of our readers who may visit Toronto to take a look through Messrs. Wanless & Co.'s premises, and we can safely promise that the members of the firm will be glad to see them, and afford any information they may desire.



PRECIOUS STONES BY THE QUART.

The Pittsburg *Dispatch* correspondent at Saratoga who writes about pearls by the quart and diamonds by the peck at that famous resort could probably discover green cheese on the moon. Fashionable people no longer wear jewels except on great occasions, and it is safe to say that all the diamonds in Saratoga this year could have been gathered in a single peck measure.—

Exchange.



The Montreal Optical & Jewelry Co., Ltd.

Warehouse and Factory, 1685 Notre Dame St. Montreal.

P. O. BOX 1054.

ONLY MANUFACTURING OPTICIANS IN CANADA.

We are now offering to the Trade exceptional prices and the finest lines of all kinds of

OPTICAL GOODS

Ever Shown in the Dominion.

Andemair's celebrated Opera Glasses, Field Glasses, Telescopes, Spectacles
AND EYE GLASSES OF ALL KINDS, TRIAL LENS SETS, ETC.

Special care given to Prescription Trade and Customers' Repairs.

N.B. - Our Travellers are now on the road. Reserve your Orders for these Goods. It will pay you.

Montreal Optical and Jewelry Company, Limited.

GEO. P. WAGNER.

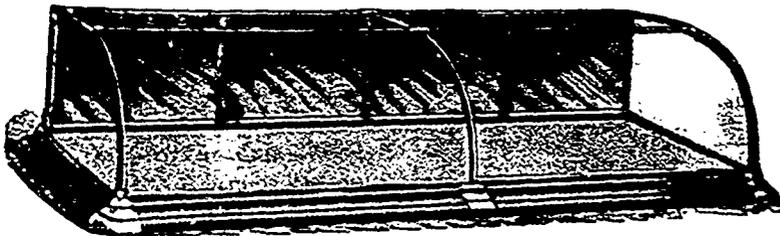
CARL ZEIDLER.

D. C. WAGNER.

DOMINION SHOW CASE WORKS, WAGNER, ZEIDLER & CO.

(FORMERLY DOMINION SHOW CASE CO.)

HIGHEST AWARDS RECEIVED WHEREVER EXHIBITED.



Manufacturers of

Show Cases of every description of Nickel, Silver, Walnut, Ebonized, etc.

Hardwood Store Fittings, Metal Sash Bars, etc.

Send for Catalogue and Price List.

Show Rooms, Head Office and Factory: West Toronto Junction, Ont.

The Best Line of Rolled Plate Chains.

IN THE MARKET FOR THE MONEY.

STYLES

ORIGINAL
DURABILITY
GUARANTEED.



J.G.C. & CO.

FINISH ALL
THAT
COULD BE
DESIRED.

(TRADE MARK)

Send for Illustrated Sheet of Specialties for this season. For Jobbers only.

J. G. CHEEVER & COMPANY,

NORTH ATTLEBOROUGH, MASS., U.S.A.



SELECTED MATTER.

HOW THE MCKINLEY BILL WILL AFFECT U. S. JEWELERS.

Below we print the Tariff bill in tabulated form ready for comparison with the present rates of duty on goods handled by jewelers, silversmiths, and the allied trades and industries. The first column shows the rates on the articles under the present law, and the second column shows the rates on the same articles under the new Tariff Bill

The letters "p c." signify "per cent. ad valorem," and the rates expressed in dollars and cents signify that it is the new duty per pound when ton or other standard of quantity is not expressed.

DUTIABLE GOODS.

	Old Rate.	New Rate.
China, porcelain, pariau, bisque earthen, stone and crockeryware, including plaques, ornaments, toys, charms, vases and statuettes, painted, tinted, stained, enameled, printed, gilded or decorated.	60 p. c.	60 p. c.
Spectacles and eyeglasses	45 "	65 "
Lenses	45 "	60 "
Spectacles and eyeglass lenses, with edges ground	45 "	60 "
Pens, metallic, except gold, per gross	12c.	30c
Penholder tips, holders, gold pens, per gross	12c.	12c
Quicksilver	10c	10c
Chronometers, box or ship's	10 p. c.	10 p. c.
Watch cases, movements, glasses	25 "	25 "
Aluminum, crude and alloys	free	15 "
Manufactures or wares not specially provided for, wholly or in part of metal	45 p. c.	45 p. c.
Jewelry articles not elsewhere provided for	25 "	50 "
Pearls	10 "	10 "
Precious stones, cut, but not set	10 "	10 "
If set	25 "	25 "
Imitation of, not set	10 "	10 "
Manufactures of alabaster	25 "	25 "

THE FREE LIST

Bullion, gold or silver
Coral, marine, uncut and unmanufactured
Diamonds and other precious stones, rough or uncut, diamond dust, and jewels to be used in watches
Pearl, mother of, not manufactured
Pewter and Britannia Metal, fit only to be re-manufactured
Platinum in ingots, bars, sheets and wire
Platinum, unmanufactured, and apparatus of platinum for chemical uses
Scrapings of silver and gold

CULLED FROM OUR ENGLISH EXCHANGES.

THE French law punishes with penal servitude any person or persons who mutilate coins; but the jewelers have found a way out of the difficulty by means of *battes* which clasp together, say, for instance, two Napoleons or two one-half Napoleons. In this way the law is respected and a fine scarf pin is obtained.

THERE is a small and original novelty now in vogue; it is an ostrich feather of gold, representing all the details of curled down. This kind of brooch can be made of feathers,

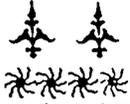
enamelled white or grey, and for mourning they can be made black.

THE use of rich wreaths at funerals is spreading more than ever. At the funeral of the great Polish national poet, Mickiewicz, there were 20,000 wreaths, of which 100 were of silver and seven of gold. The latter represented a value of 500,000 francs.

JOSIAH ELIJAH MORTON, the watchmaker whom the Coventry magistrates recently sent to prison for three months for fraudulently dealing with watch movements placed in his care for trade purposes, was one of the best known men in Hillfields a few years ago. The offence with which Morton was charged in the police court was of a most serious character. He had been from time to time entrusted with parts of watches to make up for a Preston manufacturer, but instead of dealing honestly with the materials placed in his hands he seems to have systematically parted with them to raise money. Seeing that the practice had been continued for several months, and that a confiding manufacturer had been robbed of goods of the value of £60 or £80, it cannot be said that Morton's sentence was too severe. The only mitigating circumstance in the whole matter was the help which he gave in tracing the property with which he had been dishonestly dealing.—*Jeweler and Silversmith.*

THE McKinley Tariff Bill has passed, and it now remains to be seen whether Sheffield is to continue to exist, or whether the smoke problem is to be solved by the compulsory adoption of a remedy which shall be worse than the disease. On the whole, I think the manufacturing world will not come to an end just yet. There are really some few parts of this earth, outside the great United States, where the people are sufficiently civilized to use spoons and forks. At any rate, the prospect of having to emigrate to America is too awful to contemplate. Fancy having to read an American newspaper over one's breakfast. It is all very well for Mr. Carnegie to talk about triumphant democracy. He knows very well that the triumph is *his*. The democracy of the States has served his purpose very well, but he knows better than to live beside it more than he can help. On the whole, he is right.—*Jeweler and Silversmith.*

WATCHES AS COMPASSES.—I was standing (writes Mr. Labouchere in *Truth*), by an American gentleman, when I expressed a wish to know which point was the North. He at once pulled out his watch, looked at it, and pointed to the north. I asked him whether he had a compass attached to his watch. "All watches," he replied "are compasses." Then he explained to me how this was. Point the hour hand to the sun, and the south is exactly half-way between the hour and the figure XII on the watch. For instance, suppose that it is four o'clock. Point the hand indicating four to the sun, and II. on the watch is exactly south. Suppose it is eight o'clock, point the hand indicating eight to the sun, and the figure X. on the watch is due south. My American friend was quite surprised that I did not know this. Thinking that very possibly I was ignorant of a thing that every one else knew, and happening to meet Mr. Stanley, I asked that eminent traveller whether he was aware of this simple mode of discovering the points of the compass. He said that he had never heard of it. I presume, therefore, that the world is in the same state of ignorance



LEVY BROS., HAMILTON, ONT.

L. BROS. STANDARD ROLLED-PLATE CHAINS

STAMPED

"L. BROS." AND "L. B. H."

We guarantee them to outwear any other Chain in the Market.

ALBO-SILVER CHAINS, REGISTERED

We are Sole Agents for Canada. Beware of Imitations.

L. BROS. SILVERIDE O. F. KEY CASE

The Best Case in the World. - - Buy this Case and you will buy again.

HAVING sold out our stock of American Jewelry bought last July, we have been forced to visit the Factories again, and buy

A NEW STOCK--ENTIRE

These Goods are the Latest, the Best. Everyone acknowledges that our Stocks on the road are Best Value and Best Assortment in Canada.

SEE FOR YOURSELF BEFORE YOU BUY.

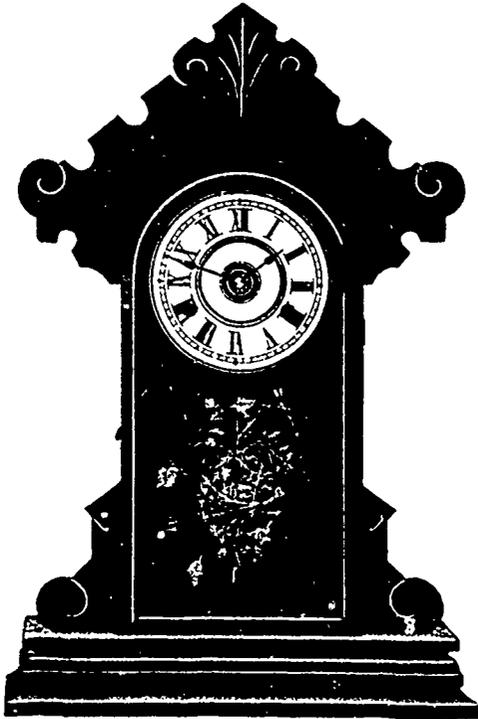


LEVY BROS.,

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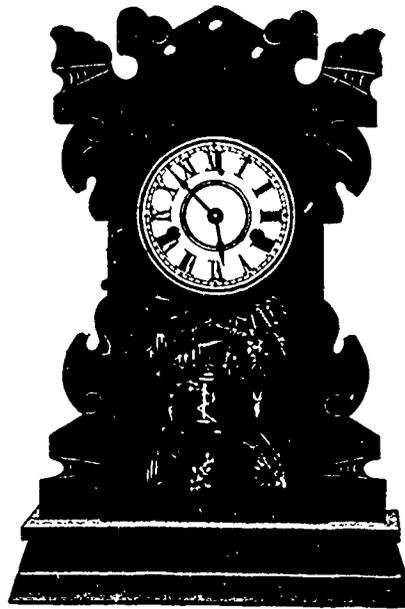
HAMILTON, ONT.

WITCH.



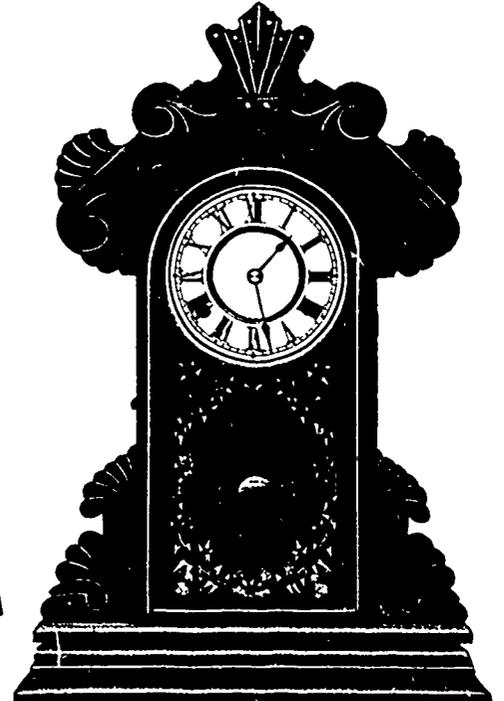
Height, 22 ins. 8 day. Gong or Strike.

COMET.



Height, 19 ins. 1 day. Strike.

WIZARD.

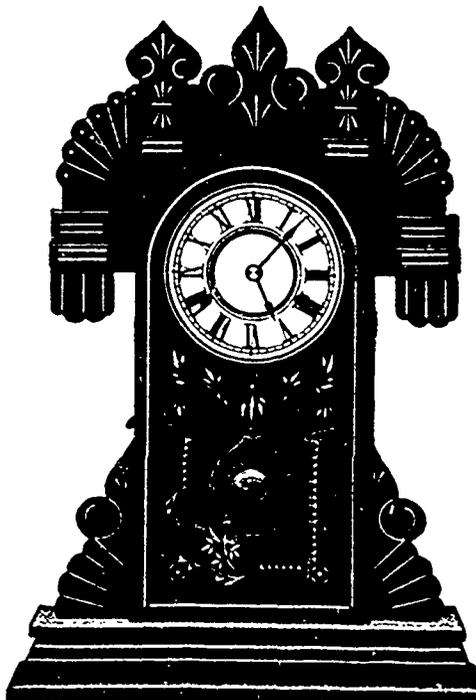


Height, 22 ins. 8 day. Gong or Strike.

CANADIAN AGENTS FOR

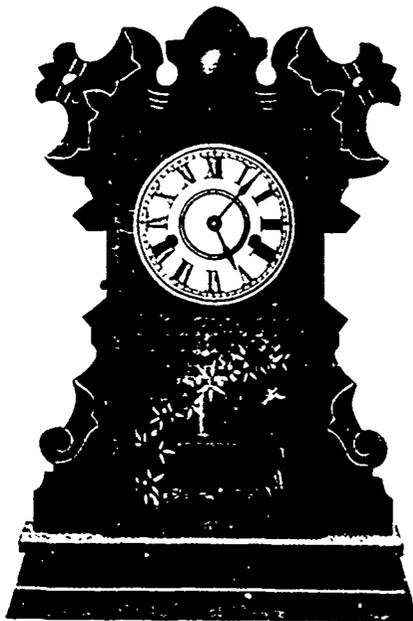
**NEW HAVEN CLOCK CO'Y,
MANUFACTURERS.**

WANDA.



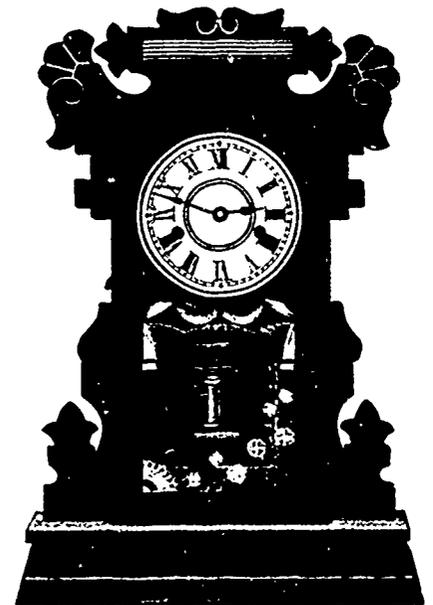
Height, 22 ins. 8 day. Gong or Strike

VESTA.



Height, 20 ins. 1 day. Strike.

MISCHIEF.



Height, 19 ins. 1 day. Strike

CLOSE PRICES.



DO NOT BE DECEIVED

By the loud talk and profuse use of printers' ink
concerning "Plated Seamless Wire."

Wire made with gold solder presents a

PERFECT GOLD SURFACE

And is practically Seamless.

THE IMPORTANT THING IS QUALITY.

WHAT IS THE THICKNESS OF GOLD USED?

THAT IS WHAT CONCERNS THE CONSUMER.

QUALITY ASSURED, TROUBLE AVOIDED

If you use the

R. F. S. & CO.

ROLLED GOLD PLATED CHAINS.

THE LATE HORACE C. WILCOX.

THROUGH the courtesy of the *Jewelers' Circular*, of New York, and Mr. John E. Parker, Manager of the Meriden Britannia Co.'s branch factory, at Hamilton, Ont., we are enabled to present to our readers a portrait of the late Horace C. Wilcox, who for thirty-six years previous to his death, had worthily filled the position of President of the Meriden Britannia Company, of Meriden, Conn., U. S. - As the principal incidents in the interesting and successful career of Mr. Wilcox were given at length in our last issue, they will still be fresh in the memory of our readers.

CULLED FROM OUR AMERICAN EXCHANGES.

CHICAGO is to have the largest building in the world, and the well-known jewelry jobber, Otto Young, will be one of its principal owners.

THE Rockford Watch Company intend to add in the spring 140 feet to the north wing of their factory.

THE Springfield Watch Factory Band is the "king pin" musical organization of the beautiful little city of Springfield, Ill.

THE American Waltham Watch Company have discontinued the manufacture of all the "B" grades of their 1-size watches.

THE starting up of the Aurora factory is attracting to that city many of the old hands who have been employed at Canton and elsewhere.

THE Elgin *Courier* says that the fancy dials made in the Elgin factory are models of beauty, and cannot be equalled in America or the world.

THE factory of the Crescent Watch Case Co. is almost ready to receive the machinery, which is to be shipped from the factory of the American Waltham Watch Company, at Waltham, Mass.

It is said that it requires over 13,000 pounds of fine steel to supply the annual consumption of the mainspring department of the Elgin Watch Factory. There are nearly a hundred springs in a pound.

THE new addition to the Hampden Watch Works at Canton, O., is being rapidly pushed toward completion. When finished, this will add greatly to the already magnificent proportions of the Dueber-Hampden plant.

AT the American Waltham Watch Factory, a set of watches numbered 5,000,000 to 5,000,010 are now on the road to completion. They are first quality, 16 size, and will be finished

with unusual care. They will be finished about the first of next year.

THE Hon. J. A. Chapeau, Secretary of State for Canada, lately strolled into the Gorham's Maiden Lane store to make a small purchase. He was so captivated with the class of goods shown him that on leaving he found his small bill had increased into hundreds.

THE abnormal corpulency of F. H. Shaw, a passenger on the *Augusta Victoria*, from Bremen, last Saturday, excited the suspicion of one of the customs inspectors. An investigation revealed a quantity of dutiable goods, among which were a gold watch, a pair of bracelets and several other articles of jewelry.

WM. BERGAN, *alias* William Wanzer, a noted New York diamond thief, was captured in Rochester, N. Y., on Oct. 10th, after two weeks' work on the part of the police authorities. He was released from Sing Sing prison last June, after serving a sentence of five years for robbing a jewelry store in New York.



THE LATE HORACE C. WILCOX

THE Brandus Silver Works have been granted a patent for depositing silver on ivory, wood and other substances, and working out the designs by a new process. The objects to which the process may be applied are many, but it is especially designed for cane and umbrella mounts, in which they obtain excellent results.

EDW. P. BAIRD & Co., of Plattsburgh, N. Y., offer a prize of \$25 for the best design of a visible pendulum mantel clock case suitable for their wood-fibre material. Jewelers who know what styles of clocks are most salable should be able to suggest such designs, and are invited to do so.

H. J. CAIX will be superintendent of the rejuvenated Aurora Watch Factory, and Chas. D. Rood, president of the Company, with the four other purchasers will constitute the board of directors.

There is an abundance of capital behind the concern, and with such an able superintendent the success of the company is assured.

THE Perpetual Watch Movement Company filed corporate articles on September 15. Place of business, Des Moines. Capital stock, \$1,000,000. The board of directors are: G. W. Marquardt, H. E. Teachout, L. A. Wilkinson, W. S. Roberts, S. R. Dawson, W. W. Fink, A. T. Hull, G. L. Eason, R. M. DeWitt and Isaac Brandt.

THE consolidation of the celluloid manufacturing companies with the Zylonite and Litholoid interests has been finally agreed upon. Shareholders of the Celluloid company will receive five and a quarter shares in the new company for one



NEW GOODS JUST ARRIVED.



Latest

Novelties in

**American Jewelry
and Solid Gold Rings**

Beautiful Designs and large Variety.

Ingraham Walnut Clocks

NICKEL ALARMS. CLOSE PRICES.

Waltham and Standard
Watch Movements.

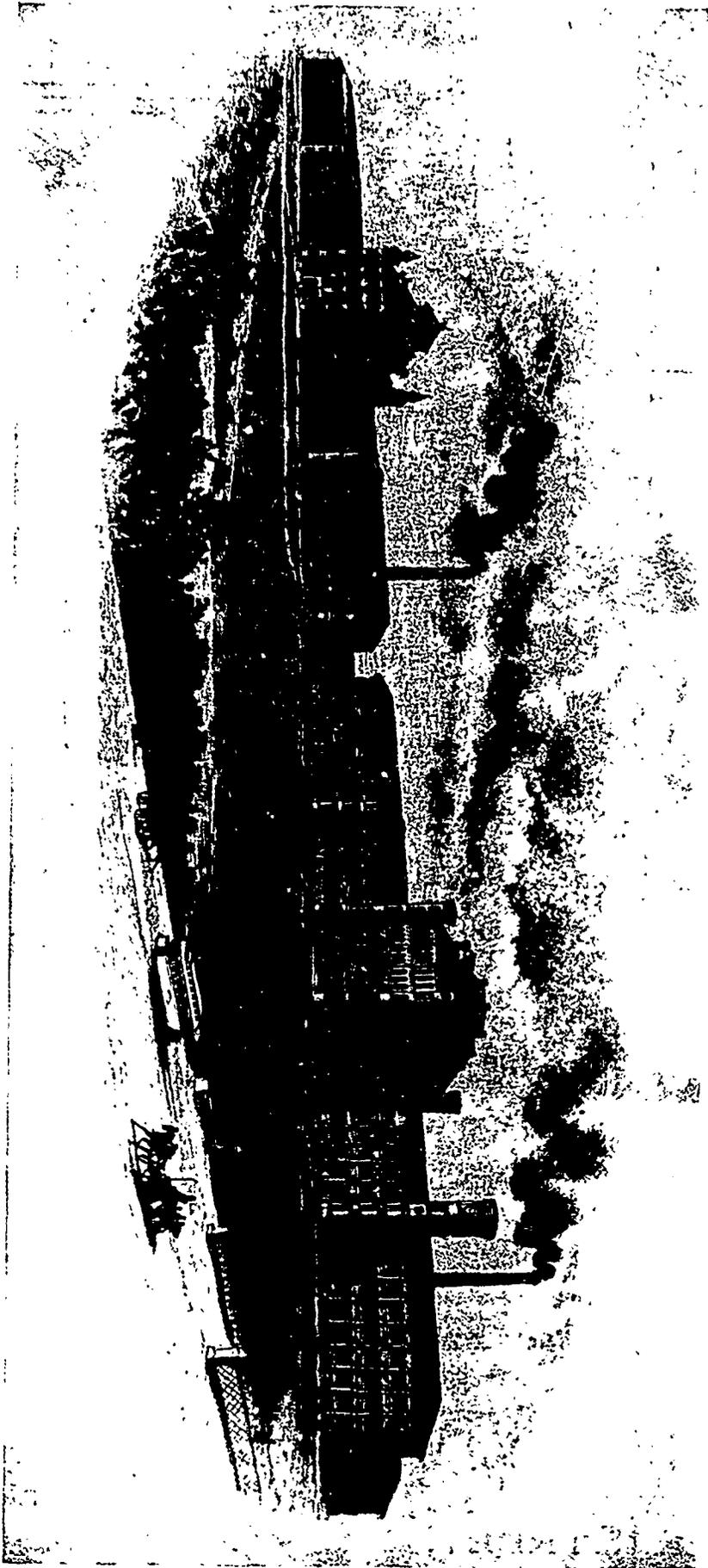
Canadian Gold-Filled
Silver Cases,

Watch
Materials
etc.

A.C. ANDERSON & CO

WHOLESALE JEWELLERS

16 WELLINGTON ST. EAST TORONTO.



THE DUEBER WATCH WORKS, CANTON, OHIO.

TOTAL FRONTAGE, 1,400 FEET.

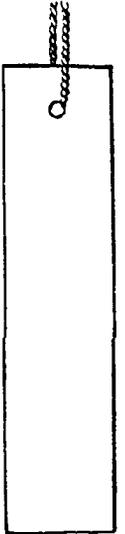
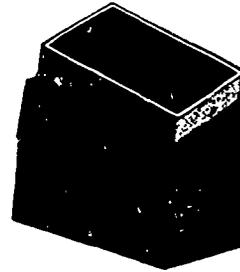
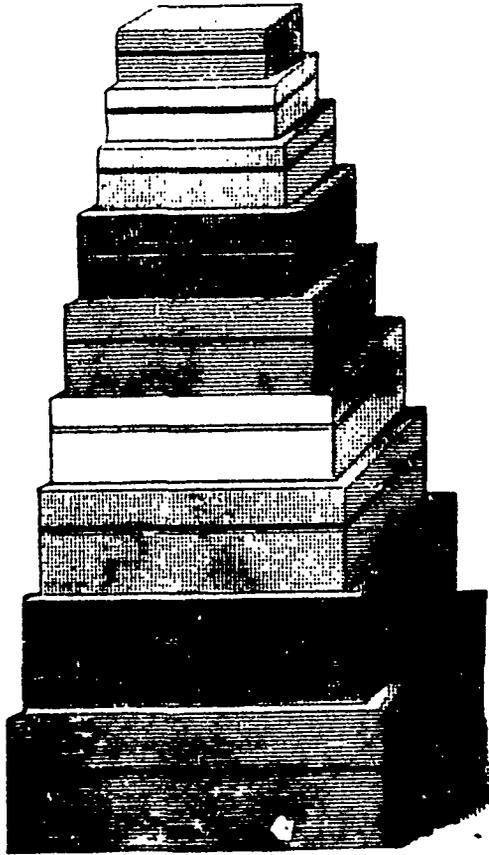


JEWELERS'

PAPER

BOXES,

TAGS, &c.



We claim to have revolutionized the prices in these goods during the last two years and are happy to say that we have been rewarded. Where we used to sell single grosses a few years ago, we now sell hundreds of grosses of Nests, Ring Boxes, Thimble Boxes, Tags, Bags, &c.

We do all our own printing and can therefore ensure first-class work with no loss of time.

See our Travellers or write for prices.

THE HEMMING BROS. CO. Ltd.

76 YORK STREET,

= =

TORONTO.



share of their present holdings. The new company will be called the Celluloid Company, with a capital of \$6,000,000, divided into 60,000 shares.

ON September 17 a fire originated in the wood-fibre department of the clock factory of Edw. P. Baird & Co., Plattsburgh, N.Y. After two hours' hard fighting, the flames were extinguished. The loss of the firm is about \$3,000, and is fully covered by insurance. The principal damage was to the wood-working machinery and belting. The hydraulic machinery in the wood-working department escaped injury, and operations were resumed in that branch of the business in a few days after the occurrence.

EDITORIAL NOTES.

SPECIAL NOTICE.

Jewelers throughout Canada will oblige the Editor by sending into this office for insertion in these notes any items of news pertaining to the jewelry business that they think would be of interest to the Trade generally.

A. J. GRIGG, of Ridgetown, Ont., has effected a settlement with his creditors at forty cents on the dollar of his indebtedness.

MR. GEO. B. KENICK, Canadian traveler for Reed & Barton, of Taunton, Mass., was in the city last month and gave THE TRADER a call.

MR. A. R. HARMON, the manager of the Canadian Agency of the American Waltham Watch Co., was in the city last month in the interests of his Company.

MR. GEORGE CHILLAS has just returned home from a very successful business trip. He expresses himself as being thoroughly satisfied with his trade this year.

ASSIGNED.—Arch. McCallum, watchmaker, of Quebec, has assigned to H. A. Budard for the benefit of his creditors. The assets are placed at \$1,800, and liabilities \$3,000.

READ IT.—The communication on "Shop Windows" in this issue is timely and well worth a careful perusal by every jeweler who wants to keep abreast of the times.

MR. FRANK S. TAGGART, manager of The Charles Stark Co., (Limited), last month paid a ten days' visit to Montreal and New York on the business of his Company.

THE CHARLES STARK CO., (Limited), are said to be negotiating for the purchase of a plating works on Adelaide street west, with the intention of doing their own electro-plating in future.

THE DISCOVERY of natural gas at Stonebridge on the Welland canal has had the effect of inducing a silver plate works to remove to that village, and a boom is expected to follow.

ROBBERY.—Last month while Mrs. N. Speller, who carries on a retail jewelry business at 774 Yonge Street, in this city, was absent from the store, some thief stole \$28 from the till.

SEIZURE.—A despatch from Halifax last month states that a large quantity of American watch movements were recently seized by the Customs authorities at that port for under-valuation.

MR. EDMUND SCHEUER, of Toronto, was again compelled to visit the American markets last month in order to replenish his stock which had become low on account of the excellence of this fall's trade.

CHASED RINGS.—Messrs. G. H. Lee & Co., manufacturing jewelers of Hamilton, Ont., advertise some very desirable chased rings elsewhere in this issue, which our readers will do well to make a note of.

MR. W. F. CARRIER, of Toronto, has been employed by the trustees of the estate of the late Aaron Buckler, of Bowmanville, to take an inventory of the stock and dispose of the goods to the best advantage.

S. FRENKEL, wholesale jeweler of this city, reports having made

some large and very desirable purchases of jewelry while in New York. No job lot, however large, ever scares Mr. Frenkel, if he can see any money in it.

SOLD OUT.—Mr. W. Watson, jeweler of Stayner, Ont., has disposed of his business to Mr. Arthur E. Swallow, of that place. Mr. Swallow bears a first-class reputation and should make a success of his new venture.

MR. MCKINLEY, the author of the tariff bill which bears his name, is not only the most widely known, but the most abused man in the world. He is as well known as McGinty, and fully as unpopular outside the U.S.

WE HAD A VISIT last month from Mr. A. Henderson, retail jeweler of Arnprior, Ont., who was west on his wedding trip. THE TRADER was pleased to make Mr. Henderson's acquaintance, and congratulates him on the new partnership into which he has entered.

THE SILVER TROWEL to be used by to the Hon. Charles Tupper, Minister of Marine and Fisheries, at the opening of the Chignecto Ship Railway Dock, the first of its kind in the world, was manufactured by T. H. Griffin, jeweler, of Amherst, N.B.

MR. H. K. DANFORD, representative of Bolt & Co., rolled plate chain manufacturers of Montreal, was in the city last month and reported a fairly successful trip. He is well satisfied with the way their trade is growing in Ontario and out west.

A. C. ANDERSON last month had a visit from an old, though not very welcome friend, Mr. St. Atica. It took nearly a couple of weeks of A. C.'s valuable time, assisted by one of the best medical practitioners in the city to get him rid of this unwelcome visitor.

MR. JACOB BUNN, JR., Vice-President of the Illinois Springfield Watch Co., spent a couple of days in the city last month. He reports trade as exceedingly brisk with his Company, they being unable, in spite of all their endeavors, to keep pace with their orders.

CLOCKS AT AUCTION.—I. Benjamin, retail jeweler of 230 Queen Street West, sold off his entire stock of clocks by auction last month, his intention being to remodel his store and discontinue the clock department of his business.

A BIG FIRE.—At the big fire which occurred at Elmvalle, Ont., on the 10th of last month, Mr. Jas. B. Robinson's retail jewelry store went up in smoke along with the rest. Fortunately for Mr. Robinson his stock was saved, although considerably damaged by water.

M. R. COUNTER, whose name had almost become a household word in Seaforth, Ont., in connection with the jewelry trade, has removed to Nanaimo, British Columbia. THE TRADER wishes him success wherever he may pitch his tent.

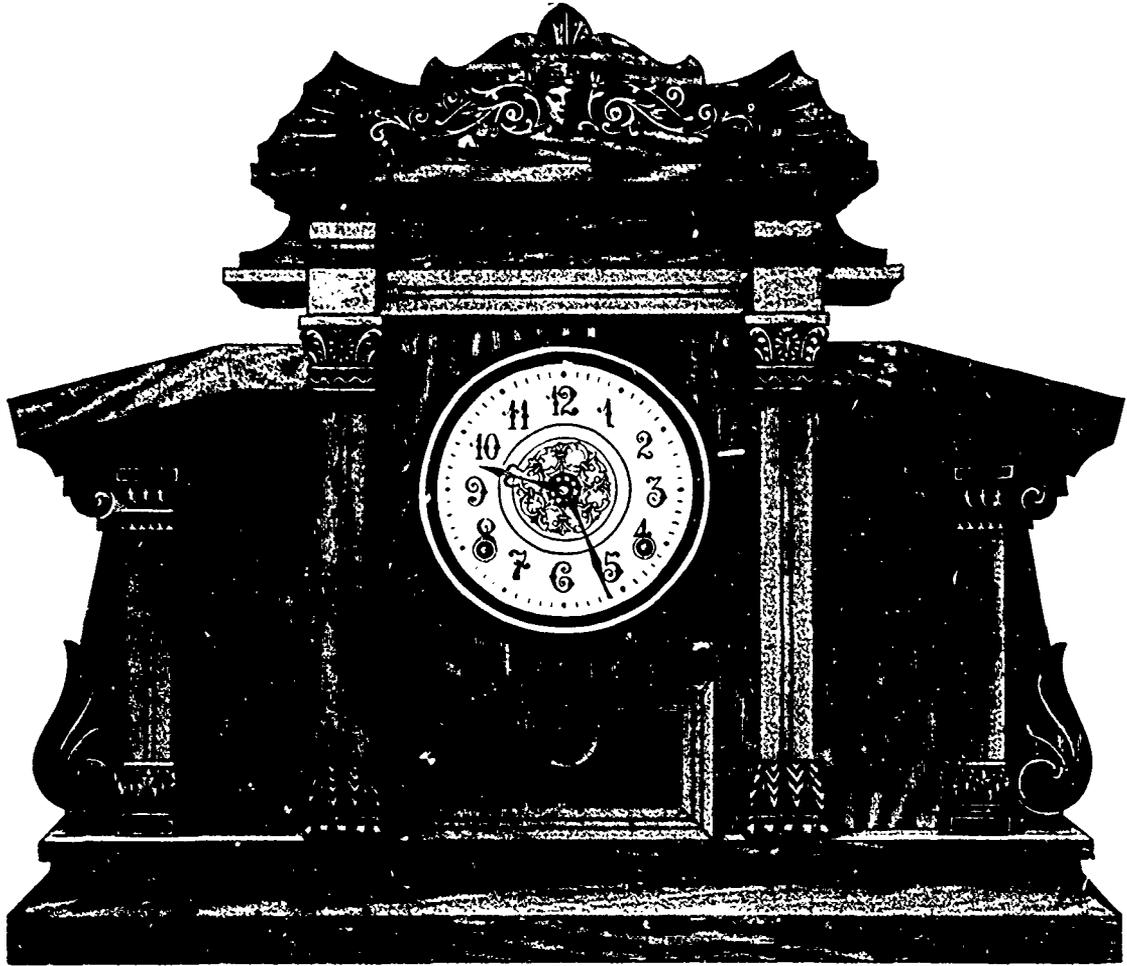
THE HEMMING BROS. CO. report the largest season's trade so far in the history of their business. This is not at all surprising, considering the lowness of their prices and the variety and excellence of the goods they manufacture. Their novelties for jewelers this fall are well worth seeing.

WE REGRET TO LEARN that Mr. Mitchell, wholesale jeweler of Kingston, Ont., has lost his reason, and has been placed by his friends in the Rockwood Asylum for treatment. At latest reports he was showing signs of improvement, and it is hoped that a complete recovery may be effected.

C. L. SANDERS, retail jeweler of Barrie, Ont., has assigned to Robt. Meeking for the benefit of his creditors. The assets are said to amount to \$1,500 with liabilities of \$2,300. From present appearances it seems as though the creditors will not realize more than ten cents on the dollar of their claims.

ELEGANT PRIZE CUPS.—The two elegant prize cups exhibited last week in Ryrie Bros.' window, are intended for competition amongst the Rugby union football players of Canada. One was manufactured by J. E. Ellis & Co., of this city, and the other by Reed & Barton, of Taunton, Conn.

VALUABLE BRICKS.—The American Watch Case Co., of Toronto, last month received two gold bricks from the U.S. Mint, whose united weight amounted to nearly fifty pounds, with an aggregate value



ETRURIA.

WE ARE NOW SHOWING SIX STYLES IN SILVER DIAL
ANTIQUA OAK MANTEL CLOCKS.

NEW

ETRURIA
UMBRIA
SERVIA

HAVEN

GALLIA
ADRIANIA
RUSSIA

CLOCKS

ALSO A FULL LINE IN WALNUT AND NICKEL GOODS.

E. & A. GUNTHER, TORONTO

COMPLETE LINES IN

WATCHMAKERS' TOOLS AND MATERIALS.

Ask to see our New Indestructible Pendulum Wire with Tempered Spring.



\$11,000. These are said to be the largest gold bricks ever sent to Canada from the U.S. Mint.

FAILED.—J. M. Proctor, jeweler, Queen Street West, Toronto, failed last month. A meeting of his creditors was convened, when he offered to compromise at 25 cents on the dollar. The offer was rejected and the meeting intimated that an offer of 33 cents on the dollar might be favorably considered. The assets are \$1,500 unit, liabilities \$1,800.

DEAD.—Mr. John Burr, retail jeweler of Manitou, N.W.T., but formerly of Harriston, Ont., died at the former place last month. Mr. Burr was well known to every wholesale jeweler in Canada, and although not as successful in business as his friends would like to have seen him, was highly thought of by all who knew, or had business dealings with him.

MR. PILGRIM, a salesman in the employ of Messrs Bolt & Co., of Montreal, was robbed in that city last month while going home at night. The footpads not only secured his watch, chain and money, but kicked him severely into the bargain. Although several people were near enough to have interfered, none of them had humanity or sand enough in them to come to his help.

NEW MOVEMENT.—The Waltham Watch Co. have advised the trade that they are putting on the market a new 18 size non magnetic adjusted jewelled movement, to be listed at a price midway between their regular not non-magnetic P. S. Bartlett gilded and the A. T. & Co. gilded. It will be known to the trade as No. 40, and will be made both O F & Htg.

TRADE WORK AT THE SCHOOL.—Mr. Playtner is working hard at the Horological Institute, and is rapidly getting it into shape. Last week he received a shipment of very fine tools from Germany, the first of their kind ever imported into Canada. One of the gauges will measure to the two-thousandth part of an inch. The Institute is now open to receive trade watch work, and guarantees to turn it out in a first-class manner, and at reasonable prices. Give them a trial.

PROGRESS.—*The Manufacturing Jeweler*, of Providence, R. I., U.S., has changed from a bi-monthly to a weekly, and reduced its size so as to bring it almost into book form. As usual it is fully abreast of the times, and has changed its character in order to meet the altered conditions, being now more of a weekly newspaper to chronicle the doings of the jewelry trade, than a technical journal as it formerly was. In whatever shape it comes, it is always welcome to a place on our table.

A NEWSPAPER DIRECTORY FOR CANADA.—Messrs A. McKim & Co., Advertising Agents of Montreal, are preparing what will be the first comprehensive newspaper directory of this country. Canada is now quite large enough, and its journalistic interests of sufficient importance, to require its own annual Newspaper Directory, and there are several new features of the proposed work which will make it a valuable handbook for all seeking information concerning the Canadian press.

NEW ELGIN MOVEMENT.—We direct the attention of our readers to the new advertisement of the Elgin National Watch Co. in this issue. This company have recently placed upon the market a seven jewelled O size movement, which completes the line in this size. Heretofore these small size movements could only be had in the higher grades, but now that they can be had as low as the 6 size, they should meet with a readier sale amongst those who desire a small and inexpensive watch.

FOUND DEAD.—Mr. R. G. Doherty was found dead in his bed on the 8th of last month, heart disease being what carried him off. Mr. Doherty was not more than 33 years of age, and was formerly in business as a jeweler on Queen Street West, but latterly had been employed as an advertising agent. He was not unknown to local musical circles, and was at one time leader of the St. Mark's Church choir at Parkdale, while quite recently he had become associated with the Governor-General's Bodyguard's band. He was buried by his comrades with military honors.

THE DUEBER-HAMPDEN FACTORY.—Elsewhere in this issue we are enabled, by the courtesy of Mr. William Allau Young, of London, Ont., the Canadian representative of the Company, to present to our readers a first class illustration of the Dueber-Hampden Watch Case

and Movement Factory, which its enterprising proprietors claim is the "largest in creation." To any of the Canadian jewelry trade who may happen to visit Canton, Ohio, Mr. Dueber extends a cordial invitation to make a personal inspection of the works, and see just now it is, for themselves.

SOMETHING NEW.—Messrs E. & A. Gunther, wholesale clock importers of this City, are introducing a new and improved clock pendulum which is a great improvement over the old style, and is warranted not to kink. The trade have only to see these pendulums in order to recognize their merits, and they should meet with a large and ready sale. This firm is also shewing a fine line of Antique Oak clocks with silvered dials, which are both novel and attractive. Their stock is replete with the latest novelties in clocks, and they invite the trade to call and examine their goods.

CONFISCATED.—Our readers will remember that last spring an American named Williams was arrested in Toronto while trying to dispose of a lot of watches to a pawn-broker at prices far below their regular value. It subsequently transpired that Williams had, as he claimed, purchased them from a wholesale house in St. Louis, but that he had defrauded the customs department by smuggling them into Canada. The customs authorities held them, pending an investigation by the Ottawa authorities, and they last week decided that the goods should be forfeited to the crown.

A HANDSOME MODEL.—The Canadian Pacific Railway had on exhibition in a King Street window last month a handsome model of their new steamship, *The Empress of India*. The model is perfect in every detail, and the best thing of its kind that we have ever seen. The Pacific fleet will also include *Empress of Japan* and *Empress of China*, now in course of construction, and will ply between Vancouver, B.C., and Yokohama and Hong Kong in connection with the C.P.R. No expense is being spared to make these vessels combine safety, speed and elegance, and trade between Canada and the Orient with this new service will receive a great impetus.

THE ASSIGNMENT of W. T. Merrick, of St. Catharines, Ont., which was noticed in our issue of last month, is likely to prove a bad one so far as the unsecured creditors are concerned. The assets, composed principally of stock and fixtures, amount to about \$4,800, and the aggregate liabilities to some \$5,000, of which \$2,300 are secured to a Hamilton creditor by chattel mortgage. Outside of the secured claims, the principal creditor is John Segsworth & Co. of this city, who ranks for about \$2,300. It is thought by competent judges in the trade that after satisfying the mortgage the estate will pay little or nothing to the unsecured creditors.

TEXT BOOKS.—We direct the attention of jewelers, or apprentices who desire to perfect themselves in the trade, to the text books for watchmakers, kept in stock by Albert Kleiser, of this city. In his stock will be found Saunier's "Watchmaking Handbook," price \$3.00, Saunier's "Treatise on Modern Horology," price \$12.00; Geo. E. Gee's "Goldsmiths' Handbook," for alloying and working gold, price \$1.50, and Britten's "Watch and Clock Handbook," price \$2.00. These are all standard works, having a world-wide reputation, and the trade will be glad to know that they can now be had without the trouble of sending to Europe for them.

A LIVE JOURNAL.—*The Canadian Manufacturer* has always been a wide awake journal, but of late it is surpassing itself in the demolition of the free trade and commercial union theories as applied to Canada. We venture to say that if every Canadian farmer could have a chance to peruse the *Canadian Manufacturer* as they do *The Globe* and other organs of annexation and despair, we would have to use a microscope in order to find a free trader or commercial unionist amongst them before a twelve month had gone past. The *Manufacturer* rightly believes that the best way to kill error is to let in the daylight of truth. Long may it flourish.

ITS FIRST EFFECT.—The first effect of the McKinley Bill was to cause every importer in the United States, who could possibly get through a stock of the goods affected by the rise of duty, to do so. Saturday, the 4th October, being the last day for receiving entries under the old tariff, the New York custom house was crowded all day long with



WINNIPEG

WATCHES AND DIAMONDS.

SOLID Gold and Roll Plate Jewelry. Rogers Silver Plate Flat and Hollow-ware. Canadian Agents for the Ansonia, Waterbury and Ingraham Clocks, Tools and Materials. We keep in stock and sell to **SUIT OURSELVES AND CUSTOMERS ALL THE LEADING LINES OF AMERICAN MOVEMENTS AND CASES**, and we recognize no **WOULD-BE** combination. The only independent Wholesale House carrying the above stock in Canada.

W. F. DOLL, 433 and 435 MAIN ST.

WINNIPEG



BOLT & CO. of FINE

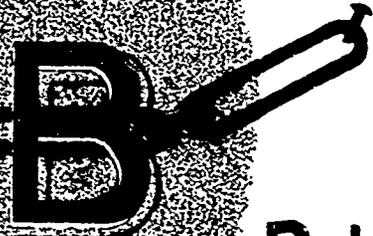
MANUFACTURERS

WHITE'S LANE

ROLLED PLATE

CHAINS

Montreal



We claim for our B chains

PERFECTION,

and will fully guarantee the Quality of every chain made by us.

BOLT & CO.
MANUFACTURERS

P O Box 189.

Montreal, Nov. 1 1890

Dear Sir,

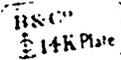
Nothing in the market to equal them. If you have not already had our B. Chains in 10 and 14 Karat, it is high time you gave them a trial: you can guarantee quality and save money. Remember, there is no duty on this article: it is manufactured in Montreal. All the leading wholesale houses carry our goods.

Yours truly,

Bolt & Co.

WE HAVE REGISTERED AT OTTAWA THE LETTER **B** FOR ROLLED PLATE CHAINS OF ALL GRADES MADE BY US, AS WELL AS THE TAGS

ENQUIRIES FOR SAMPLES AND PRICES ARE INVITED AND WILL BE PROMPTLY ATTENDED TO BY
BOLT & CO.
White's Lane MONTREAL.
P.O. BOX 189





a host of importers who were bound to get their entries through, hit or miss. As a consequence the officials were compelled to keep the office open till 12 o'clock at night. The customs receipts at the port of New York for the week were the largest in its history, and totalled up to over \$6,043,000, an average of over \$1,000,000 per day.

DR. JOHN S. OWENS, of Detroit, Mich., U.S., whose clever notes in our Optical Department have attracted a great deal of attention from the trade generally, paid us a flying visit last week on his way home from a trip to Bowmanville. Dr. Owen is a Canadian by birth, and a brother of Mr. J. T. Owen, banker of Ailsa Craig, Ont. He makes a specialty of the diseases of the eye and ear, and has a large and growing practice. The course of study in his Optical Institute is thorough and practical, and our readers who really want to master the optical business, should not hesitate to avail themselves of his knowledge and facilities.

ELECTRIC LIGHT AND POWER.—The workshop of Edward Beeton, Leader Lane, is the first place in Toronto to be lit up with electric light obtained from a new system of storage batteries situated on the premises. The light furnished by this system is of excellent quality, and Mr. Beeton considers it far superior to gas for workshop purposes. In addition to lighting his premises the Company have also furnished an electric motor with which Mr. Beeton runs his lathes and other light machinery used in his work. The system is well worth the inspection of the trade, and Mr. Beeton will be glad to answer any inquiries visitors may make regarding it.

MR. J. FERGUSON, one of the partners of the firm of Page, Smalley & Ferguson, of St. John, N.B., was in the city last month, and of course dropped in to have a chat with THE TRADER. Under the guidance of Mr. M. C. Ellis, Mr. Ferguson paid a visit to many of Toronto's most important manufacturing industries, and expressed himself as being both surprised and delighted with what he saw during these inspections. Although this is Mr. Ferguson's first visit to Toronto, we trust that it will not be his last, for he won golden opinions from all with whom he came in contact here, and if all our compatriots down by the sea are like him, the more of them that come up to see us the better we will like it.

INTERESTING.—The Waltham Watch Company have just sent out to the Canadian jewelry trade through their Montreal office a new and beautifully illustrated catalogue, entitled *Products of the American Waltham Watch Co.* Every movement manufactured by this Company is illustrated by a full size engraving; these occupy fourteen pages. Chronographs take up three pages, dials two pages and the balance of the work is taken up with illustrations of cases. No prices are given in this catalogue, but every movement is distinctly numbered and described, so there can be no trouble in ordering by the retail jeweler. If you have not yet received a copy, drop a line to Manager Harmon, of the Company's Montreal office, and you will have the omission remedied without delay.

TO HELP OUR JAPANESE TRADE.—Last month the Hon J. G. Haggart, Postmaster-General of Canada, received from the Postmaster-General of Japan, the convention, properly executed, which has been agreed upon between the two countries for the interchange of parcels by means of a parcel post. In view of our rapidly increasing trade with Japan, the establishment of this service cannot but be advantageous to the two countries. The new arrangement will take effect immediately. The parcels will be sent via Vancouver, the limit of weight being five pounds, and the rate chargeable 25 cents per pound. Parcels so sent will be subject to the same general regulations as parcels for the United Kingdom. If the Postmaster-General would now turn his attention to improving our postal facilities with Australia, he would be doing a grand good thing for Canada. This should be his next move.

SAFES DOWN EAST.—In speaking of the safe exhibit of Messrs J. A. J. Taylor, of Toronto, at the St. John, N.B., Exhibition, a contemporary in that city has the following to say regarding it: "The exhibit of this firm's safes at the St. John Exhibition has given the

latest satisfaction, every day has brought an appreciative audience before this exhibit, and Mr. Robbins, the general manager, has been untiring in his attention to satisfy the eager crowds that waited an explanation of the workings of all these ingenious contrivances, and when the sagacious eye of that gentleman discerned a merchant, banker or manufacturer coming up they were made at home until the thorough workings and its mechanism were fully explained. The entire exhibit has been sold here, and Mr. Robbins will remain in the Lower Provinces for about two months, and will no doubt book a large number of orders."

A NEW DEPARTURE.—Following the lead of Tiffany & Co., and other high toned jewelry firms of the United States, Ryrie Bros., of this city, have introduced a new feature into their business in the shape of fashionable stationery. So far the venture has proved a big success, and the firm express themselves as thoroughly pleased with the result of the experiment. We have often pointed out to our readers that there is not only no reason why jewelers should not add such goods as fancy stationery, bronzes, art pottery and such fancy articles as are in keeping with the business, but there is everything in its favor if they can only afford to carry these lines. They not only tone up a store but if properly selected should bear as good, if not a much better, profit than jewelry. Now-a-days, when the ready clothing man, the general store man, the tea and coffee man, and goodness knows who else, are dabbling in the goods handled by jewelers, it is important that the craft should introduce new lines so as to keep up the volume of business.

PATENT RING GAUGE.—Mr. W. F. Doll, wholesale jeweler, of Winnipeg, has just secured on behalf of himself and E. Wareham, a patent in the United States and Canada on a ring gauge of new and novel construction. The device consists of a thimble-like case, having inside a graduated spring tape-like measure, scaled and notched, secured at one end, the other end of which passes through a small slot in the case. When the case is slipped on the finger the size of the ring wanted is found by pulling the spring measure out until the ring formed by it inside is reduced to the correct size. The device is self-registering, and should have a large sale amongst the jewelry trade of Canada and the United States. The same gentlemen have also taken out a patent for a twine box, for which they have already refused \$10,000, and which they think will supersede all others now in use. This device automatically takes up the string after using, and the inventors say it is as simple as rolling off a log, and altogether different from anything that has yet been placed on the market. They are having 1000 samples made up for gratuitous distribution amongst the trade.

WANTS A DUTY ON NICKEL ORE.—Our esteemed and level-headed contemporary, *The Canadian Manufacturer*, is anxious to have the Dominion Government put an export duty on nickel ore, and we think from a protectionist standpoint its contention is about right. Canada undoubtedly has the largest and almost the only nickel mines in the world, and other nations desiring our nickel should not be allowed to take it out of the country free in such a shape that the whole profit of smelting and manufacture should go to foreign workmen instead of our own. Mines of any kind are but of little value to a country unless the profits made by them are kept in the country in which they are situated. The American Government have, it is said, contracted for \$1,000,000 worth of our nickel ore for the purpose of building war ships, but in order to give employment to their own people have by the McKinley Bill put nickel ore on the *free list*, while manufactured nickel has to pay a duty of 15 cents per pound. In self defence Canada should place a similar duty on every pound of nickel sent out of the country in the raw state, for by no other means that we know of can we hope to retain the work of reducing and smelting it which legitimately belongs to us. By this means the United States manufacturers would find it to their advantage to operate reduction works on this side of the line, and Canada would get her rightful share of the profits which should accrue to her from the possession of these valuable deposits of this now invaluable metal.

SATAN REPROVING SIN.—*The Guide* with this issue must respectfully decline to enter into any further discussion or controversy with



SIMPSON, HALL, MILLER & CO.,

— MANUFACTURERS OF —

Artistic and Useful Hollow Ware.

Our Hollow Ware is heavily Electro-Plated upon Fine Hard White Metal, and there is nothing in Designing, Ornamentation or Manufacturing which our artists and workmen cannot produce.

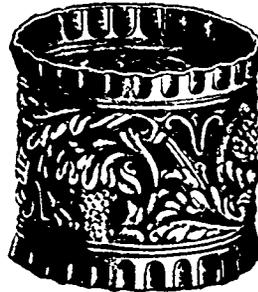
OUR FACILITIES FOR EXECUTING FINE WORK ARE UNEXCELLED.

OUR ASSORTMENT IS SUITABLE FOR THE BEST TRADE.

All our Flat Ware bears this Trade Mark

TRADE MARK FOR

 KNIVES, FORKS, SPOONS,
 And is Fully Guaranteed



Every Piece is Stamped Thus



OUR SPOONS, FORKS, ETC., PLATED UPON THE FINEST NICKEL SILVER IN

EXTRA, DOUBLE, TRIPLE AND SECTIONAL PLATE.

Full lines of over FORTY STAPLE AND FANCY PIECES in each pattern in Geneva, St. James, Countess, Windsor, Oval Thread, etc. Made under the supervision, and quality guaranteed and controlled by WM. ROGERS, formerly of Hartford and Meriden (Wm. Rogers, Sr., died 1883)

FACTORIES: WALLINGFORD, CONN., U.S., AND MONTREAL, CANADA.



THE TRADER. When a newspaper quarrel becomes abusive it is time to stop it. *The Guide* has stated its position and that of **THE TRADER**. It has nothing to apologize for and is willing to rest its case with its readers. It may be necessary in future to take up certain matters and consider them from a standpoint different to that of Mr. McNaught, but should such a necessity arise the readers of *The Guide* may rest assured that they will never find in its columns any ungentlemanly expression either to a rival or any one else. It is a matter of regret that the editor of **THE TRADER** should have gone the length he has, and on second thought we believe no one will regret it more than he does himself." The above specimen of editorial claptrap in the last issue of the *Jewelers' Guide*, is its reply to our demand for proof in support of its lying charges made against the Editor of **THE TRADER**, the American Watch Case Co., and certain mythical wholesale jewelers, whom it dare not name for reasons too obvious to mention. To these and all other charges of a similar nature published in the *Guide* we have given the lie direct, and challenged it either to back them up with satisfactory proof or stand convicted before the trade as a mendacious literary rib-stabber of the meanest type. Instead of attempting to prove its charges, however, the *Guide* adopts a new role and hypocritically attempts to shift the responsibility of the quarrel to the shoulders of **THE TRADER** by reading us a homily upon the sin of using ungentlemanly language. Its action in so doing reminds us of the story told of a gentleman by the name of Smith, who one night caught an old negro in the very act of robbing his hen roost, and advancing with shot gun in hand he called out to him, "put down that chicken, you confounded thief, or I'll fill your old black skin full of buckshot," but was almost paralyzed when the thief coolly turned around and said, "Ain't you shamed youself. Massa Smiff, to talk sich ungemmanly langwidge to a poo old niggah dat nevah did nuffin to you in his life." We have yet to learn that it is more ungentlemanly to call an untruth a lie than to actually tell the lie itself, and in spite of the *Guide's* simulated sorrow that we should so far forget ourselves as to call a spade a spade, we cannot see that we have anything to regret in the matter. The *Guide* started the quarrel in the most cold-blooded and cowardly manner, and so far as we are concerned it is welcome to keep it up just as long as the Ananias section of its brain is capable of performing its ordinary function, but it must understand distinctly that we propose to keep right on in our wicked and ungentlemanly course every time it falls into its old habit of publishing slanderous untruths about us. It must no doubt seem strange to the *Guide* that the Editor of **THE TRADER** sets any value on his good name, but it is nevertheless the case, and he has just the same right to defend it from untruthful and cowardly attacks, as the honest citizen has to defend his purse from the footpad, who with pistol at his head demands his money or his life. Just a word of friendly advice to the *Guide* and we have done. So far as **THE TRADER** is concerned it has always treated its contemporaries in a fair and gentlemanly manner just as long as they proved themselves worthy of such consideration. If the *Guide* has, as it claims, been treated otherwise, it is simply that because of its persistent and deliberate lying it has placed itself outside the pale of respectable journalism, and had to be dealt with in the only way that such concerns can be made to understand. **THE TRADER** treated it with leniency until forbearance ceased to be a virtue, and we must freely confess that our Christianity is not robust enough to enable us to turn our cheek beyond the second time to the unprovoked smiter. If the *Guide* shows itself worthy of gentlemanly treatment, it will have no reason whatever to complain of **THE TRADER**, but it must bear in mind that actions speak louder than hypocritical cant, and that with Roderick Dhu we hold that,

"Though the beast of game
The privilege of chase may claim,
Though space and law the stag we lend,
Ere hound we slip, or bow we bend,
Whoever reck'd, how, where, or when
The prowling wolf was trapped or slain."

ENGRAVERS' CEMENT.—Resin, one part; brick dust, one part; mix with heat.

OUR HELP COLUMN.

THE TRADER aims to be of practical value to the Retail Jewelry Trade. **NO CHARGE** is therefore made for advertising in this column, but the subject-matter should not exceed five type lines, or about 60 words.

A RARE CHANCE for a young man wishing to start business in a good live village, with a population of about 2,000. The owner will sell all or part of stock to suit purchaser. Good reasons for selling. Address, **RETAILER**, care of Edmund Scheuer, 11 Wellington St. West, Toronto.

A POSITION as salesman wanted, in retail jeweler's store, by competent man with first-class Montreal references. Can also keep books in single entry, and would be willing to make himself generally useful; also with some experience of the wholesale jewelry business acquired in England. Address, **A. W. M.**, Box 189, Montreal.

FOR SALE—Moseley Lathe, nearly new. Also lot of watchmakers' tools. Address, **LATHE**, 4 King St. West, Toronto.

SITUATION wanted by young man of good habits. Seven years' experience at bench, can do mostly all kind of watch, clock and jewelry repairing; has most of his tools. Sober and reliable. Best of references. Address **Box 27**, Berlin, Ont.

SITUATION WANTED.—By young man 21 years of age, to work under instructions in good shop. Good salesman and book-keeper. Address, **Lock Box 303**, Creemore, Ont.

SITUATION WANTED.—By young man who has had three and a half years' experience at the bench. Good references. Address, **REPAIRER**, 137 Wellington St., London, Ont.

SITUATION WANTED.—By a linguist, for general correspondence in a good concern; experience and best of references. Address, **BOLDAR**, care of *Volksfreund* office, Cincinnati, Ohio, U S.

SITUATION WANTED.—By a Practical Watchmaker, as traveller for a Wholesale Jewelry or Silverware House. Address, **SALESMAN**, care **TRADER PUB. CO.**, Toronto, Ont.

SAFES.—Second hand, good as new, very cheap. Fire-proof, 42 in. high, 33½ wide, 27 deep, price \$70. Burglar and fire-proof, 47 x 33½ x 30, price \$225. Burglar and fire-proof, 61 x 50 x 35½, price \$500. 10% for cash. All with the latest improvements. **A. C. ANDERSON & Co.**, Toronto.

WANTED, first-class watchmaker, one accustomed to high grade watches and competent to undertake repairs of fine chronographs and repeaters. Apply **VERITAS**, **TRADER** Office.

WATCHMAKER wanted at once, to go to Calgary, Man., who is thoroughly acquainted with work in retail jewelry store. Apply at once with references to **L. H. DOLL**, Calgary, Alb.

WANTED.—Situation by young man as improver to the watchmaking. Has had three years' experience on watches, clocks and jewelry, also on type writing machines. Good references. Address, **P. O. Box 1002**, St. Catharines, Ont.

WANTED.—A small polishing lathe for ordinary jobbing work, must be cheap. Address **C. R. F.**, care **TRADER PUB. CO.**, Toronto, Ont.

WANTED.—Young man as improver, must have set of tools and must be able to do engraving. Send photo. Steady job to good man. **DAVIDSON BROS.**, Vancouver, B. C.

WANTED at once, by a watchmaker of thirty years' experience, a good situation with steady employment and fair wages. Good work guaranteed; can furnish best of references. Apply to **W. C.**, Box 253 Cornwall, Ont.

WANTED.—By a young man of four years' experience, situation as watchmaker, at moderate salary, where proprietor thoroughly understands the trade. Best of references given. Address, **Lock Box 56**, Bowmanville, Ont.

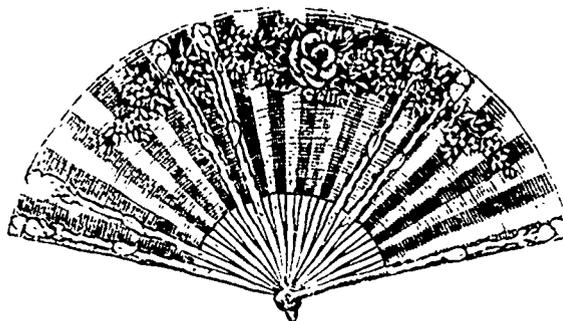
MIDDLE aged, thoroughly practical manufacturing and repairing jeweler who is returning to England in the coming spring, wishes to meet with a winter's work in manufactory or retail store; also has for sale Rolls, Lathe and Bench Tools, also a practical treatise on Gold and Alloys, Coloring, &c., and one on Metallurgy, Gold and Silver Plating, &c; two very useful works, Address, **METALLURGY**, care **TRADER PUB. CO.**, Toronto.



FANS!

FANS!

FANS!



THE most suitable line for a jeweler to take hold of outside of jewelry itself is the Fan trade. It is only in the largest cities that the dry goods houses carry anything but cheap goods, the trade thereby being left entirely to dealers in fancy goods, who again, as a rule, are afraid of high-priced goods. Our advice to the jewelry trade is to try an assortment of good ball-room fans. Leave the selection to us and we will choose just as though we were buying for ourselves. We have a large stock on hand.

THE HEMMING BROS. Co. Ltd.,

76 York Street, TORONTO.

**DETROIT
OPTICAL INSTITUTE.**

A PRIVATE SCHOOL OF PRACTICE.

Instruction on the Eye.

Visual defects and their correction.

Manipulation of Trial Lenses, Ophthalmoscope, etc., etc.

*Students continue practice until confidence
and ability assured.*

FOR PARTICULARS ADDRESS

JOHN S. OWEN, M.D.,

142 West High St., - DETROIT, MICH.

**T. WHITE & SON,
MANUFACTURING JEWELERS,
LAPIDARIES & DIAMOND SETTERS,
RICHMOND CHAMBERS, RICHMOND ST. WEST, TORONTO.**

Canadian and Foreign Stones, Rubies, Sapphires, etc., Polished and Mounted for the Trade.

N.B.—A variety of Stones and Imitations of all kinds in Stock

C. W. COLEMAN,

10 KING ST. WEST, (up Stairs,) - - TORONTO.

WATCHMAKER TO THE TRADE.

Importer and Dealer in GRANDFATHER CLOCKS,

QUARTER TING-TANG AND CHIMES.

ESTIMATES FURNISHED FOR TOWER CLOCKS.

W. COATES & BRO,

JOBBERS IN

JEWELRY AND WATCHES,

BROCKVILLE, ONT.



WISE AND OTHERWISE.

PERSIFLAGE IN THE VOID.—"I'm no coward," said the Earth.

"No; but you have two great fears," observed the Sun, hotly.

"And they?"

"The hemispheres."

"You've forgotten the atmosphere," put in the Moon. And the Comet wagged his tail with joy.—*Herald*.

A DELICATE HINT.—Customer—My watch which you repaired for me some time ago has stopped.

Jeweler—Ah! my collector informs me that the bill is still running.

PAT PREFERRED THE NOBLE ANIMAL.—Mike—"Pat, they say that one o' them fellers with a big telescope be aafter discoverin' a new asteroid."

Pat—"Sure, Moike, an' he can kape the baste. I'd rather roide a harse."—*Jewelers' Weekly*

THE CHILD TOOK IT LITERALLY.—Ethel York—"Ma, what makes the Philadelphia girls wear mugs?"

Mrs York—"Do they, Ethel?"

Ethel—"Big brother says that the Philadelphia girls have the awfulest mugs on their shoulders he ever saw."—*Jewelers' Weekly*.

UPRIGHT TO A FAULT.—Manufacturing Jeweler—"In what branch of the business would you like your son to be employed? Has he any aptitude in designing?"

Uncle Josh—"Nothin' de signin' 'baout the lad. He's straight as a string."—*Jewelers' Weekly*.

FOLLOWED AN EMINENT EXAMPLE—"He was a very thorough man, went right to the bottom of things, as it were. In fact, that habit caused his death."

"How did he die?"

"Drowned." *Philadelphia Times*.

A GOOD REASON.—"Did you know that in the last century the dudes were called macaromes?"

"No; were they? I wonder why."

"Because they were long, slim and hollow, I fancy."—*Herald*.

THAT ACCOUNT AGAIN.—"Your account has been standing a long time, Mr. Ducky."

"Then give it a seat, my dear Shears."

"Very glad to, sir, shall we make it a receipt?"—*Clothier and Furnisher*.

THE DIFFERENCE 'TWEEN ART AND LAW. Lecturer (to art class)—"The execution should harmonize with the design. The designer's judgment should always govern."

Student (who has also dabbled in law)—"The best plan for getting your money is to have the execution issued as soon as you discover that there is a design." *Jewelers' Weekly*.

A FINE MARKET ON THE LANE. Mr. Hawker (from Garden City)—"Mariat, our fortune is made"

Mrs. Hawker—"What's the matter, Abner?"

Mr. Hawker—"I was gon' through Maiden Lane, daown to York, when one feller asked another how the market was, and he 'laowed that it was over faorty dollars a carrot, an' stuff at that!" *Jewelers' Weekly*.

THE RISE AND FALL.—Briggs—"They say a watch keeps better time when it is kept at a certain distance from the ground. That must be why yours is so irregular."

Griggs—"I don't see the point."

Briggs—"Because it is put up so often." *Clothier and Furnisher*.

ACCIDENTS WILL HAPPEN.—Miss Cushington—"I admit, Arthur, that this is not the first time I have been engaged, but I'm sure your noble, generous heart—"

Little Brother—"Sis, the baby's got your bag of engagement rings."—*Street & Smith's Good News*.

A CHANCE FOR HIM.—She (who has promised to ask for no more jewelry this year)—"I wish I were you for a little while."

He—"Why, my dear?"

She—"Because then I would buy my wife a pearl necklace."—*Providence Journal*.

WORN OUT IN A GOOD CAUSE.—"You seem to be rather battered," said the signet ring to the solitaire, as they lay side by side in the pawnbroker's showcase."

"I have figured in many engagements," replied the latter, sadly.—*Munsey's Weekly*.

A WISE FATHER.—Minister—"You ought to whip your boy for fishing on the Sabbath."

Deacon—"I intend to, sir; but I thought I'd let him clean them first."—*Detroit Free Press*.

POEM BY A PROBATE CLERK—

Lives of rich men oft remind us

We, if with a million blest,

Might, departing, leave behind us

Wills for some one to contest *Herald*.

NO BOND REQUIRED.—Transatlantic Traveller—"Let me introduce my friend Stubbs. He's a diamond in the rough"

Customs Officer (with his mind on business)—"Diamonds in the rough? Duty free."—*Chicago Tribune*.



HE COULDN'T BELIEVE IT.

COUNTRYMAN—"Is that watch I left t'other day done?"

JEWELER—"Just wait till I speak to the head watchmaker. [To telephone]—Hello, Mr. Uhrmacher, is Mr. Jay's watch done? [To Mr. Jay.]—He says it isn't ready."

COUNTRYMAN—"Come, now, hand her out! You don't think I'm fool enough ter b'lieve yer watchmaker's in that little box, do yer?"—*Jewelers' Weekly*.



SEND TO **H. ELLIS,** 

WHOLESALE JEWELER,
14 WELLINGTON STREET WEST,

FOR A SELECTION PACKAGE OF NEW GOODS.

A. M. BROCK,

IMPORTER OF

WATCHMAKERS'

AND

JEWELERS'

MATERIALS.

KINGSTON, - - - CNT.

JEWELERS WANTED,

TO SEND THEIR ENGRAVING TO

J. S. MURRAY & CO.

GENERAL AND ORNAMENTAL

ENGRAVERS,

ROOM 58,

YONGE STREET ARCADE, - TORONTO.

PUPILS TAUGHT ENGRAVING

FOR TERMS APPLY TO THE ABOVE.

SHERMAN E. TOWNSEND.

H. SEYMOUR STEPHENS

TOWNSEND & STEPHENS,

Public Accountants,

Auditors, Assignees.

TRADERS BANK CHAMBERS,

CABLE ADDRESS,

YONGE STREET, TORONTO.

"SEYMOUR."

Telephone 1641.

Trade Work a Specialty.

WILLIAM WHITE,

MONOGRAMS, CRESTS & EMBOSSING DIES.

9 James St. North, HAMILTON.

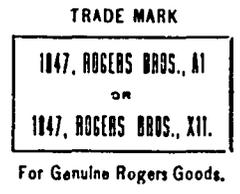
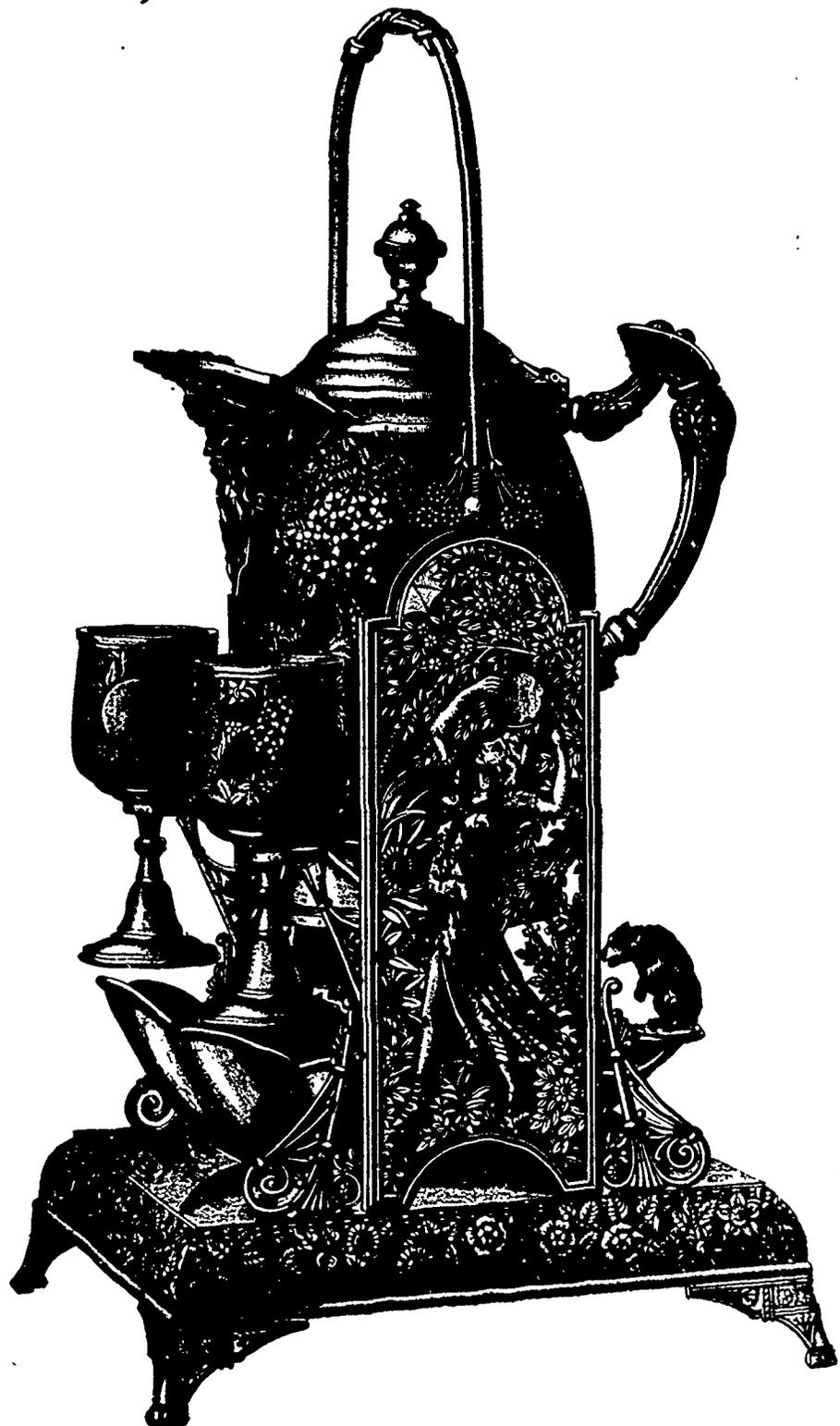
Ornamental Engraving, Plain and Fancy Lettering
and Rubber Stamps.

Personal attention given and all work returned same day.



MERIDEN BRITANNIA CO'Y

FINEST QUALITY
ARTISTIC, GOLD & SILVER PLATE.



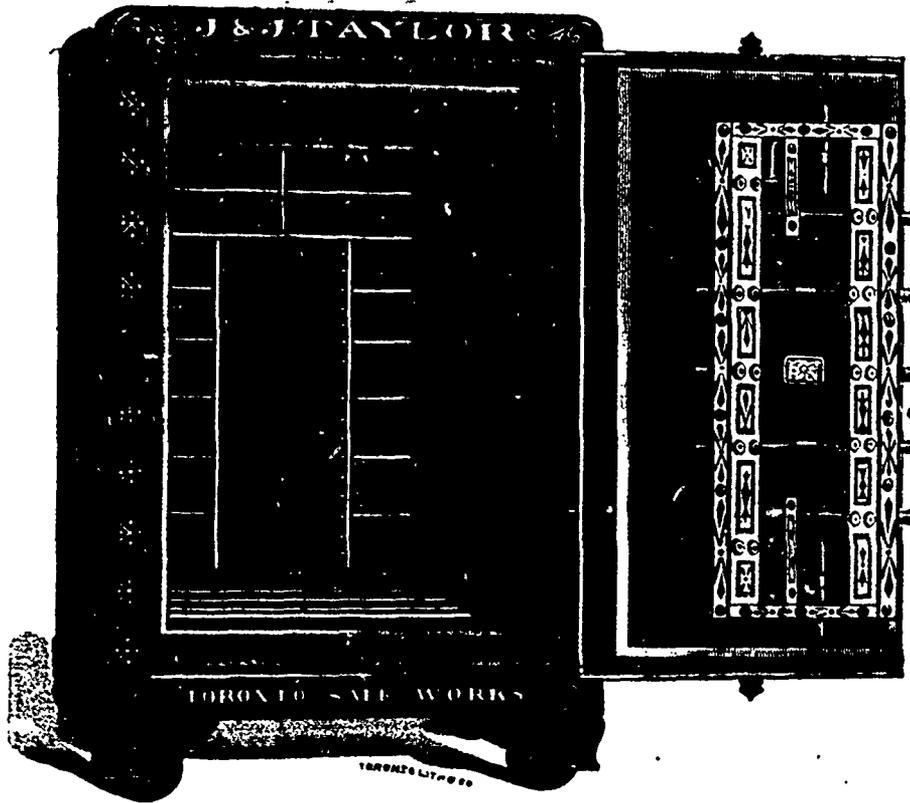
NO. 65. BROCADE, EMBOSSED TILTING PITCHER SET, \$75.00.

Manufactories : Meriden, Conn., U. S., and Hamilton, Ont., Canada.



SOMETHING NEW IN JEWELERS' SAFES

J. & J. TAYLOR'S
NEW STYLE
JEWELERS' SAFE,



DOUBLE TONGUE AND GROOVE
FIRE-PROOF DOORS.
WITH

J. & J. TAYLOR, TORONTO SAFE WORKS.

IN ORDER to meet the wishes of the jewelry trade, we have at last succeeded in perfecting a new style of safe for jewelers' use, combining the advantages of first-class

FIRE AND BURGLAR PROOF SECURITY WITH MODERATE COST.

THE above cut represents our new style of Fire and Burglar Proof Safe for Jewelers, which has an entire lining inside of best five ply welded Chrome steel and iron, with heavy Burglar Proof door, made any thickness required, and which is securely attached to the Fire proof door. The Burglar Proof Door is fitted with rubber tube packing to prevent the use of explosives, and is locked with four wheel Combination Lock having our patent Enlarged Centre Lock Spindle and Bolt Handle.

To the above improvements is also added our new patent

DOUBLE TONGUE AND GROOVE FIRE-PROOF DOORS

this being the latest improvement in Fire Proof Safes, and PATENTED BY US JANUARY 14TH, 1886. This door is fitted with a TONGUE made of wrought iron, corresponding with and locking into a GROOVE, made of same material, on the door frame. To both of these is connected a SECOND TONGUE and GROOVE made of thin galvanized steel, which is filled with non conducting material thus making

TWO COMPLETE TONGUES AND TWO GROOVES IN EACH DOOR.

and which we maintain is the best fire-proof safe now made.

CATALOGUES AND PRICES ON APPLICATION.

J. & J. TAYLOR,
TORONTO SAFE WORKS,
117 and 119 Front St. East, Toronto.



A TELEPHONE CONVERSATION WITH THE TRADE.



A. W. C. Co.—Hello, Central!

Central.—Yes, who do you want?

A. W. C. Co.—Give us the Retail Jewelers of Canada.

Retail Jewelers.—Hello, who is it that wants to speak to us.

A. W. C. Co.—THE AMERICAN WATCH CASE COMPANY, of 67 Adelaide Street West, Toronto, is speaking, and they just want to inform you that they absolutely refuse to accept any responsibility for any Gold, Silver or Gold Filled Watch Case unless it bears one of their Registered Trade Marks.

Retail Jewelers.—That's all right, but just tell us what are your registered trade marks?

A. W. C. Co.—Our trade mark on all Gold and Silver Cases is a "Maltese Cross," (✠) and on all Filled Cases a

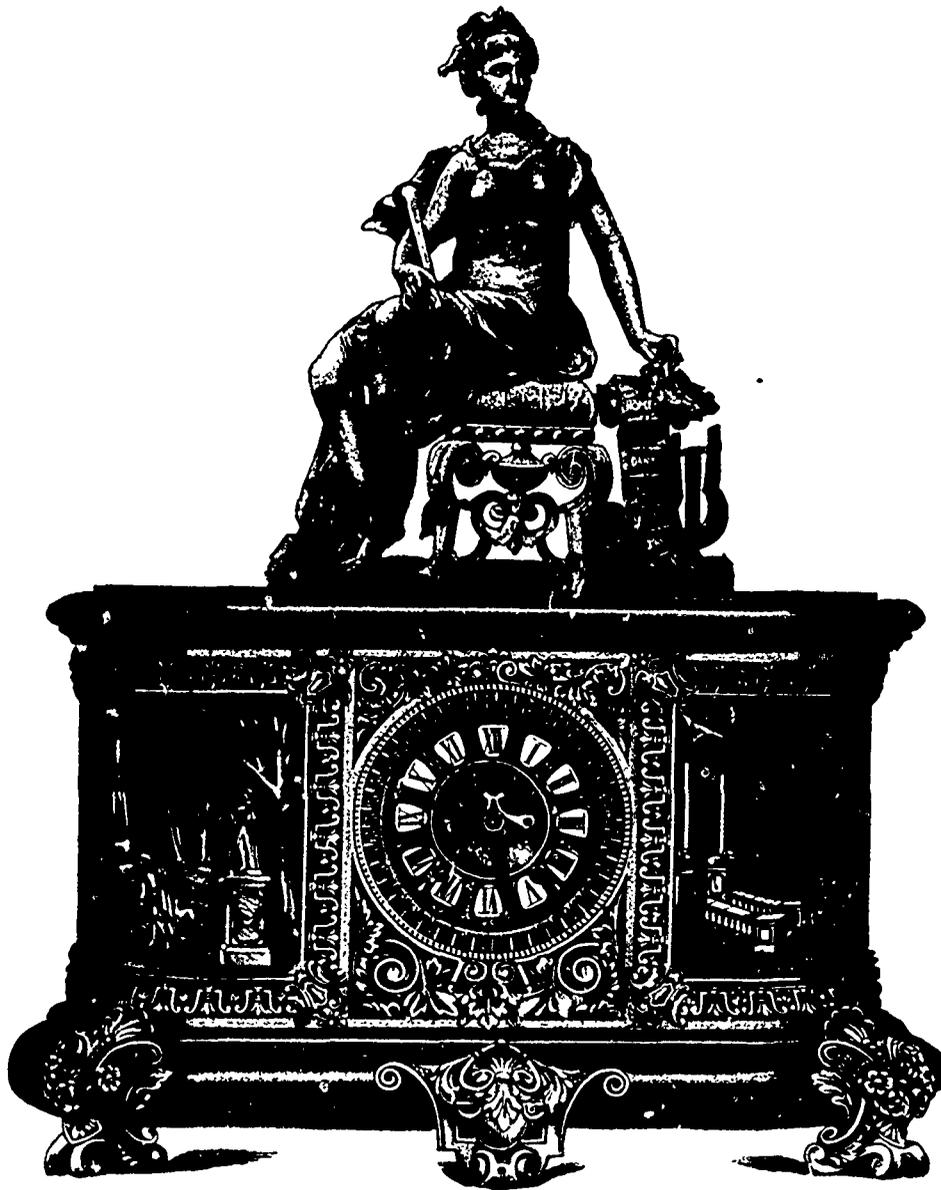
"Winged Wheel," (⚙) and when you are buying Cases always look for these stamps. If they are stamped with one (⚙) of them our Company will guarantee the quality and workmanship of the Case, no matter who sells it to you.

Retail Jewelers.—That's first-class as far as it goes, but why don't you name your Filled Cases so that we can order exactly what we want from our jobber?

A. W. C. Co.—We have done so. In 14 K. Filled we make two different kinds of O. F. Screw Cases, the "Premier" and the "Cashier," and one Hunting Case called the "Cashier." In 10 K. Filled we make the "Fortune" in Open Face and Hunting. Every one of our Filled Cases has one of these names stamped in it in plain letters right above our trade mark of the Winged Wheel, so that you can't make any mistake about them.

Retail Jewelers.—Thanks! We will certainly bear these things in mind when next we buy cases. In the meantime let your Company keep right straight along as you have heretofore done and give us first-class goods that we can swear by. We want to sell honest goods that we can conscientiously recommend.

A. W. C. Co.—Thank you, gentlemen, your advice is first-class, and we will always try and deserve your confidence. Good-bye.



Ansonia Clocks.

It goes without saying that the fancy clocks of the Ansonia Company, for uniform excellence of quality, and for novelty and merit in artistic design, are practically without rivals. Some of their low-priced lines of Black Walnuts are imitated by goods of inferior finish, but when it comes to Presentation

goods, Fine Bronze Clocks, Polished Brass Clocks, Black Marble Clocks Antique Oak Clocks, they are practically without competitors. Our sample room contains a large selection of the best designs, and we have received a fresh supply of the large Ansonia Illustrated Catalogue—new edition, 1890. No jeweler should be without one, especially when they are offered gratis. Write The Goldsmiths' Stock Company of Canada, Limited, Toronto, for Catalogue and Price List.

* * * * *

Goldsmiths' Stock Company of Canada, Limited, Canadian Agents for Ansonia Clocks.