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N. T. S.



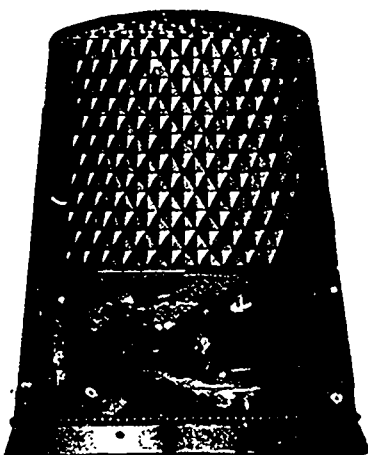
NO travelling salesmen. That is what "N. T. S." means, but it also means much more. It means that my system of selling goods without travelling salesmen is enabling retail jewelers who handle my goods to buy them cheaper than their opponents in business possibly can who buy from houses that sell their goods on the road. If I employed travelling salesmen, I would be obliged, in figuring the cost of each new article, to add a proportion of the \$10 per day paid the traveller for salary and expenses. As it is, I propose to reach the Trade through my advertisements, and at an almost nominal cost. In buying my goods you do not have to pay any travelling railway fares, no hotel bills, no extra down at rock bottom prices, and am not afraid to place class goods. I do not propose to start you with baits. You can inspect my entire stock and purchase just what you want, when you want, and in quantities to suit your trade. I guarantee to sell any goods in my line cheaper than any other jobbing house in the Dominion of Canada. If you do not believe this, give me a call and a sample order and you will be convinced. If you can pay me a visit, it will pay you, as I have always a lot of good stock that I can sell at less than manufacturer's cost. If you can't come to the city yourself, send me a trial order and I will guarantee you entire satisfaction. ✉ Mail orders promptly attended to, but always remember that **S. FRENKEL, 55 YONGE STREET, TORONTO,** keeps no travelling

TRAVELLING expenses whatever. I pay everything marked away them before you, for I know they are always bottom for first class goods. I do not propose to start you with baits. You can inspect my entire stock and purchase just what you want, when you want, and in quantities to suit your trade. I guarantee to sell any goods in my line cheaper than any other jobbing house in the Dominion of Canada. If you do not believe this, give me a call and a sample order and you will be convinced. If you can pay me a visit, it will pay you, as I have always a lot of good stock that I can sell at less than manufacturer's cost. If you can't come to the city yourself, send me a trial order and I will guarantee you entire satisfaction. ✉ Mail orders promptly attended to, but always remember that **SALESMEN.**

SIMONS, BRO. & CO.

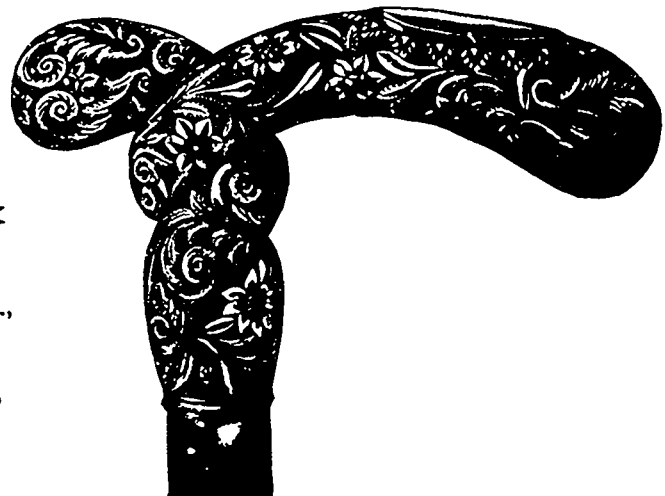
MANUFACTURERS OF FINE JEWELRY,

Chains, Thimbles, Canes, Umbrella Mountings.



N. Y. OFFICE, 20 MAIDEN LANE.
Address all Orders to Factory.

Established 1840.
TRADE  MARK
611 & 613 Sansom St.,
618 Chestnut St.,
PHILADELPHIA, PA., U.S.



No. 76. 5/8 in.

AMERICAN WALTHAM WATCH CO.

WALTHAM, MASS.

ASK TO SEE THE

New Ladies' Waltham Watch.



THE SMALLEST AND CHEAPEST

AMERICAN CHATELAINE WATCH MADE.

In 14 kt. and 18 kt. and Crescent Gold Filled.

FOR SALE BY ALL JOBBERS.

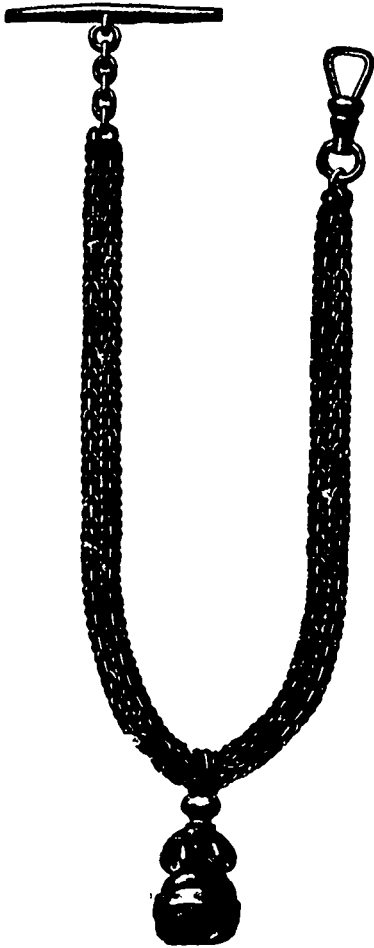
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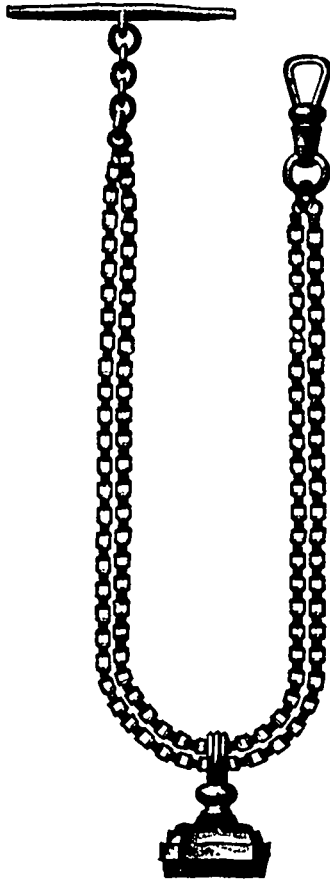
BOSTON.
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NEW YORK.

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1280/330.



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'R. F. S. & CO.'

SOMETHING NEW AND ELEGANT.

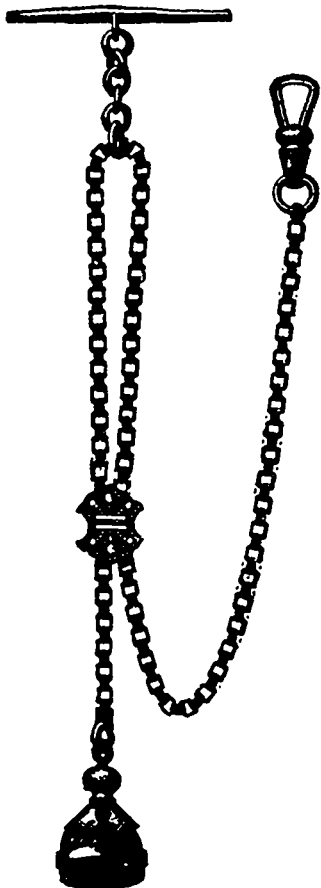
SEAL PENDANTS

- IN -

CORNELIANS,
ONYX, SARDS
AND BLOOD STONE,
*PLAIN AND INTAGLIO, SET IN
SOLID GOLD.*

ORIGINAL WITH

R. F. SIMMONS & CO.



CLOCKS - CLOCKS - CLOCKS

Walnut, Marble, Imitation Marble.

WE HAVE NOW ON HAND A LARGE ASSORTMENT OF THE
MOST DESIRABLE STYLES.

Dealers should send for our new Illustrated Catalogue.

ENCLOSE YOUR BUSINESS CARD.

H. A. NELSON & SONS,

Toronto and Montreal.

E. J. THOMPSON & CO.,

55 KING ST. EAST,

HAMILTON, ONT.,

Invite the attention of the Trade to a full and complete line of

ENGLISH · JEWELRY · AMERICAN

Embracing all the New and most Fashionable Patterns.

DIAMONDS AND OTHER PRECIOUS STONES.

Also in IMITATION for Jobbing purposes.

A COMPLETE STOCK OF WATCH MOVEMENTS AND
CASES CONSTANTLY ON HAND.

JEWELERS' FINDINGS, SWISS AND AMERICAN WATCH MATERIALS AND TOOLS.

PROMPT AND SPECIAL ATTENTION TO MAIL ORDERS.

E. J. THOMPSON & CO.

My Price List and Illustrated Catalogue of American Clocks will be ready within a few days. I desire to place respective copies in the hands of every Jeweller in the Dominion, and advise the Trade to inspect the same before placing their Fall orders.

**LARGEST
STOCK OF CLOCKS
IN CANADA.**

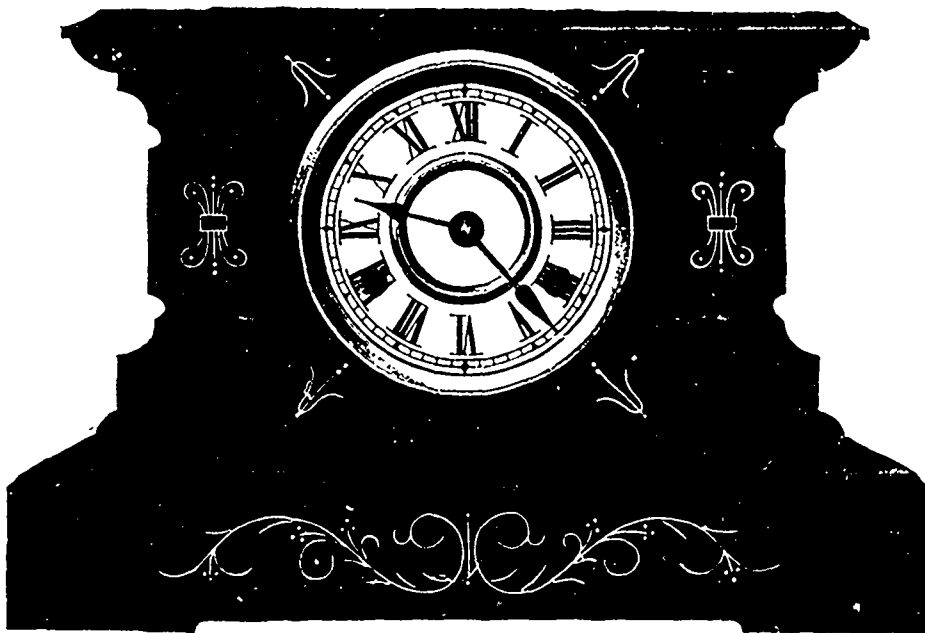


**EDMUND
SCHEUER,**

My stock in Jewelry is now complete in all its branches, and offers with its low prices and enormous variety of new patterns and designs better value to the Trade than any ever placed upon the market. Will send selection packages on approbation to any responsible party in the Trade.

**SELL AT
BOTTOM PRICES
—AND—
WHOLESALE EXCLUSIVELY.**

Every Inquiry cheerfully answered.
Mail Orders solicited & promptly executed.



Any article in the Line made to order.
All goods exactly as represented.

— IN —
**WATCHES, WATCH
MOVEMENTS,
Gold, Silver & Filled
CASES,
FRENCH PENDULES & PRECIOUS STONES**

**A FULL STOCK CONSTANTLY ON
HAND.**

**TORONTO,
ONT.**

11 WELLINGTON STREET WEST.

— IN —
**WATCH & CLOCK
MATERIALS,
Watchmakers' Tools
JEWELERS' FINDINGS,
Spectacles, Eyeglasses and
Optical Goods.**

**A LARGE ASSORTMENT KEPT IN
STOCK.**

TO THE TRADE!

THE UNPRECEDENTED DEMAND FOR

GOLD CASES

Has so denuded our Stock, that we have to ask the indulgence of the trade for a short time.

We are now completing arrangements whereby we will shortly be able to show the

FINEST LINE IN THE MARKET

AND KEEP IT IN THAT POSITION.

Our travellers are now out with elegant lines in American and English Goods. Take a look at the stock.

Yours truly,

JOHN SEGSWORTH & CO.,

6 WELLINGTON ST. EAST,

TORONTO.

THE TRADER.

TORONTO, ONT., OCTOBER, 1886.

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.

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.

CANADA'S GREAT FAIR.

The eighth annual fair of the Toronto Industrial Exhibition Association, which was held from the 6th to the 18th of September, was decidedly the most successful one they have ever had. The exhibits of all kinds were larger in number and higher in quality than at any previous exhibition, and to our mind, nothing could show in a clearer or more convincing manner the steady progress that this Canada of ours is making towards being in the not distant future one of the greatest countries in the world. In the products of the farm, Canadian Exhibitions have never had any occasion to take a back seat to any other country. In manufactures, however, she has until recently been behind and it did seem at one time as if her ultimate destiny was to be "a heaver of wood and a drawer of water" to Europe and the Republic to the south of us. The National Policy has proved, however, to have been just what was needed to revive and encourage our drooping industries, and to-day Canada can in the manufacturing line hold her own against all comers. We must confess that as we walked through the main building and beheld on either side of us manufactured goods of almost every variety, equal in quality and finish to anything made in the world, we felt proud of Canada. In our opinion such exhibitions are not only excellent competitive schools and advertising places, but they perform a higher and better work by disseminating information about our country, its products, capabilities and people; and also by engendering a feeling of national pride in it, whose further development in other directions is known as love of country. Without desiring credit for any superabundance of devotion to Canada, we have felt the same inspiration on surveying one of our great Expositions as Marmion's English squire did when from the hills overlooking the Tweed and Floddin's Field, he took in a "Pisgah" view of Scotland and exclaimed, "Where is the coward who would not dare to fight for such a land?" While the Toronto Industrial Exhibition has done much for this city, it has done more for Canada by educating its citizens about their own country in a very practical manner.

"When shall I call you in the morning, sir?" asked an hotel waiter of an Aberdonian one night. He replied peckily, "I'll ring the bell when I wish to be called."

EXPRESS PARCELS.

In these days of telegraphs and telephones, it is in most cases an imperative necessity that valuable goods, such as jewelry, be shipped by express instead of by freight. While most merchants like to get their goods with all the despatch that the Express Companies can command, but few of them care to pay the often extortionate charges that these companies try to collect. It is a well-known fact that an Express Company like any one else, charges not only according to bulk but also according to value, and if two packages of equal size were shipped at the same time and one were say twice the value of the other, the charges for carriage would be much higher. Right here is where many jewelers kick. They think that the charges should be determined by the bulk, no matter what the value of the contents. And they are quite right in this, provided always that they are willing to run the risk of loss and relieve the company from any extra responsibility in that direction. The trouble is, however, that most people want the Express Companies to carry valuable parcels and charge for them by bulk only, but in case of loss they want and expect these companies to make good their loss, no matter how large it may have been. Now this is hardly fair and should not be expected from any person or company, and as a result there is trouble constantly arising between the wholesale shipper and his retail customer from this very cause. According to the conditions laid down in their contract, the Express Company "cannot be held responsible for any loss or damage to any box, package or thing for over \$50.00 unless the just and true value thereof is stated by the shipper at the time of shipment." We believe as a matter of law, that if an Express Company accepts or ships any package without making the consignee declare its real value, it virtually by so doing accepts all risk and can be made to pay full value, no matter what it is, in case of loss. Such a thing, however, rarely happens, as once bit twice shy, the Express people having been caught napping once, get rid of any such risks in future by making every shipper declare value before they will accept a package.

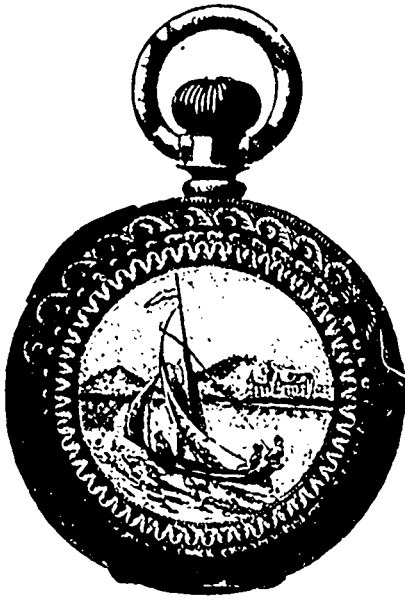
This being the case, the retailer who is always kicking at his exorbitant express charges and holding the jobber from whom he buys responsible for it, should consider the facts fairly before taking such a position. Supposing that the jobber does exactly as he wishes and ships his package putting on only a nominal value of say \$5 or \$10. This is all right and everything goes lovely as long as no package goes astray. But there comes a time in the history of even the best regulated merchant, when his valuable package goes astray, then comes the question: Who is to stand the loss? The Express Company say: "We are only responsible for \$5 or \$10, as the case may be, for here is the consignee's own signature to the effect that such was all the package was worth." The retailer says to the jobber: "You shipped the package but you certainly can't hold me responsible for it until I get it, and as it was never delivered I decline to accept any responsibility." The jobber on the other hand says: "The goods were shipped entirely at your risk and value was declared low at your request so as to save you paying big express charges." Out of the three parties the Express Company is the only one that has a clear case and it therefore lets the buyer and the shipper fight it out amongst themselves, and the result is often a law suit to decide who is the owner of the goods.

We think it well that this matter should be thoroughly

THAYER & CO.,

3 Wellington Street East, Toronto.

Headquarters for Anything in the Jewelry Line.



THE FOLLOWING ARE A FEW OF OUR SPECIALTIES :

BATES & BACON Filled Cases in 4, 6 and 18 size. The cheapest Filled Case made.

GILBERT CLOCKS. (Sole Agents.) We have them in every variety.

INGRAHAM CLOCKS, all kinds.

SILVERWARE of all kinds.

ROLLED PLATE ALBERTS AND GUARDS. The largest stock in Canada.

WATCH AND CLOCK MATERIAL. A full line exceedingly low in price.

Our Travellers are now on the road. Don't buy till you see their Stock. If in the city, call and see us.

REPAIRING JEWELRY A SPECIALTY.

SEND IN YOUR JOBS.

THE OLD RELIABLE Rolled Gold Plated Chains

Maintain their Reputation
as the

BEST CHAINS

In the Market.

Always on hand with the latest
and most Fashionable Patterns.

Quality and Make Guaranteed as
the very best.

W. & S. BLACKINTON,

11 Maiden Lane, - NEW YORK.

Factory : Attleboro, Mass.



understood by the trade as it may save both loss and misunderstanding in future to many a retailer who has been in the habit of getting a low value put upon his express packages by the jobber when shipping them. The duty of our wholesale men is clear. They should in all cases fix the responsibility of loss before shipping. If nothing is said they should in all cases declare the true value of every package they ship. If any of their customers, however, object to pay charges on the value, or in other words, pay the Express Company for the extra risk they assume, the jobbers should have an order in writing to that effect and an acceptance of all risk by the purchaser. In case a customer declines to give such an acceptance of risk the jobber would have a chance to consider whether he would assume the extra risk himself or pay the extra express charges incurred by declaring the proper value.

In asking increased charges on account of increased value, an Express Company is only carrying out an ordinary business principle, the neglect of which might easily prove fatal to their prosperity. If retailers expect to get valuable packages carried at the same rate as packages of small value, they must calculate on either the jobber or themselves accepting the risk, for Express Companies, like individuals, don't usually do something for nothing. The person who gets the benefit ought certainly to pay, and in our opinion that person is the retail merchant who buys and therefore owns the goods.

We are glad to learn that very many of the retailers throughout Canada now insist on having the proper value put upon all their packages. In this we think they are sensible, for if a loss were at any time to occur they could at once recover its value without any tedious law suit and all risk of ultimate loss from such a cause is thus avoided.

EXHIBITION NOTES.

It has apparently become the fashion for all newspapers of any account to erect a hut or tent upon the Exhibition Grounds and keep a committee of its best looking employees busy within it opening champagne and taking advertisements and writing up local puffs at so much per line. The objection the manager of THE TRADER saw to this style of thing was, that editorial notices written up at the dictation of the exhibitor with the aid of a bottle of "Mumm's Extra Dry," was generally inclined to be too flowery and roseate, and after a while those gracefully rounded certificates of excellence began to pall upon the reading public, more especially those who had a chance to personally inspect the articles written about. THE TRADER, therefore, determined to send its best reporter disguised as a farmer to take notes of the exhibition and tell its readers what he saw. He presented himself before his chief for inspection, dressed in pants and coat of brownish gray tweed, relieved with a vest of bright blue, spotted with red, a fifty cent straw hat with a striped colored ribbon completed an outfit which the chief said was rural enough for any farmer in Canada. When our reporter first struck the exhibition he was astonished at the absence of farmers. Wednesday was advertised as Farmer's Day but never a farmer did he see except himself. There were some 35,000 people there, the bone and sinew of Canada, as he found out afterwards, but they were, all of them, dressed up in black broad-cloth or something akin to it, and looked about as unlike the commonly received ideal of the horny handed sons of toil

as could well be imagined. When in the Agricultural Hall, our reporter found himself the centre of a crowd of enquirers thirsting for information about the agricultural resources of British Columbia. He knew he was unusually intelligent looking, but he had no idea that such a host of strangers could detect the possession of so gigantic an intellect in such a homespun disguise. To say he felt flattered, would be a mild way of putting the elation he felt over this tribute to his genius. It was of short duration however, for as he strolled along, accompanied by the knowledge thirsty crowd, he came across a printed card, which not only put a damper on his spirits, but made the air of that building so oppressive that he had to excuse himself to these new found friends and seek the oblivion of the horse ring. The printed card bore the following legend: — "If you want to know anything about British Columbia, ask the men with the straw hats." The cat was out of the bag, our intelligent reporter being the only person in the building with a straw hat, had been taken by the crowd for one of the attendants of the B. C. exhibit, who were to be distinguished from visitors by their straw head-pieces. What our reporter saw of interest to our readers will be found below.

MESSRS. J. AND J. TAYLOR,

The old-established safe makers of Toronto, made one of the largest and most attractive exhibits we ever saw. Their assortment comprised almost every kind of safe from the small cheap fire-proof to the large and expensive one with electric time lock suitable for a banker's use. The safe that attracted most attention from the craft however, was a new, cheap burglar proof safe designed especially for jewelers' use. This, to our mind, is exactly the thing that the trade has stood in need of for a long time—a safe strong enough to keep out any ordinary burglar, and yet low enough in price to be within the reach of regular jewelers. The interior of this safe is lined with heavy steel and iron composition plates and it has a first-class fire and burglar-proof door with all the latest improvements. Any jeweler in want of a safe should not hesitate a moment to purchase one of these safes as they are first-class in every particular and just what the trade has been waiting for these ten years past. No jeweler can afford to have his stock protected by a fire-proof safe only, which means simply that they are at the mercy of any burglar that comes along; we are glad therefore, that the Messrs. Taylor have seen fit to meet the needs of the trade in this respect, and trust that their enterprise will meet with a liberal response from every jeweler wanting protection.

THE MONTREAL OPTICAL CO.

Had a very fine display of optical goods presided over by their genial western representative, Mr. Levetus. This company displayed a very choice assortment of spectacles and eye-glasses in their new patent cases, one of which every person who deals in optical goods ought to have. These cases are divided into compartments, each of which is large enough to hold a stock of glasses all properly numbered. By this means, a merchant can tell at a glance exactly how his stock stands at any moment without handling his goods. It also effects a great saving of time in fitting customers with glasses, as when the proper number is obtained the dealer can at once put his hand on the glass he wants. The arrangement is a very ingenious one and a great advance on anything of the kind we have ever seen.

THE TORONTO SILVER PLATE CO.

Had the only silverware exhibit shown, but it was to our mind

“Economy is in Itself a Source of Great Revenue.”--Seneca.



TRADE MARKS.



HOW TO BUY, WHAT TO BUY, FROM WHOM TO BUY.

That is the question, and it is easily answered. You should buy closely those things which sell best, and from the parties in whose integrity you have implicit confidence.



Watches are the staples of the jewelry trade, and no retailer can do a healthy, paying business unless he deals only in reliable goods and sells them at honest prices. No matter what movements you prefer, you can make more money by handling the Gold and Silver Cases made by the American Watch Case Co. of Toronto, than any others, because they are so much lower in price that you cannot hold your trade without them. Every Case bearing any of their trade marks is fully guaranteed to be of the quality stamped upon it, and they excel all others in finish and excellence of workmanship. Ask your jobber for them, and take no others.

the best they ever got up and a long way in advance of any of their former efforts. Indeed while standing before their show-case, one could hardly realize the fact that such beautiful and artistic goods were the product of a Canadian factory. In this line, it is safe to say that at the present time, this country can hold its own with any other country in the world, and the importation of such goods has therefore become a thing of the past. The Toronto Silver Plate Co. are to be congratulated on the excellence of their exhibit, and we trust that their enterprise may have its reward in increased orders.

MESSRS. KENT BROS.

Of Yonge Street, Toronto, showed, under the superintendence of Mr. W. F. Ross, a very fine assortment of watches and jewelry, which was greatly admired. This enterprising firm were apparently endeavoring to educate the tastes of the numerous visitors, and if one could judge from the conversations which took place amongst those who stopped to admire their display, they must have met with abundant success. Unlike a lot of the Cheap John stands scattered throughout the building, this firm sold no goods from their exhibit, but referred intending purchasers to their palace warehouse on Yonge Street, where we understand they were kept very busy during the entire continuance of the exhibition.

THE DOMINION SHOW CASE CO.

Although not making a separate exhibit of their cases, attracted a great deal of attention to them by having them filled with the Messrs. Kent Bros' exhibit. Their bevelled edge show-case was very much admired and was certainly a splendid piece of workmanship. This company are forging ahead very fast, and now claim to make not only the largest variety of show cases in Canada, but make them better at lower prices than can be had elsewhere. They deserve success.

MESSRS. HEMMING BROS.

Did not this year make a separate exhibit, but any person acquainted with the quality of their workmanship could have no difficulty in deciding that they had no small share in making the exhibits of Messrs. Kent Bros. and Thos. Russell & Son as attractive as they were. This firm is now making a specialty of fine jewelers' fittings, such as trays, etc., and any of our readers who want to give tone to their stock cannot accomplish their object better or cheaper than by calling in the aid of the Hemming Bros. They are A1 in their line.

MESSRS. J. E. ELLIS AND CO.,

Of Toronto, the well-known retailers of the corner of King and Yonge Streets, showed a large and handsome tower clock, manufactured by the Howard Clock Co., of Boston, Mass., for whom they are agents. The massive machinery of this time-piece was more suggestive of a steam engine than a chronometer, but so faultless were its proportions and so delicately was it regulated that it gave the time for the entire exhibition with the utmost nicety. We understand that this firm had a splendid run of trade during the exhibition at their warehouse down town, and are well pleased with the results.

MESSRS. THOMAS RUSSELL AND SON

Were represented as usual by a magnificent display of fine English and Swiss gold and silver watches, and fine jewelry of English manufacture. Their large, square show-case was always the centre of an admiring crowd, and the manager, Mr. Robert Cuthbert, deserves credit for the enterprise which has made his exhibit annually one of the features of the exhibition.

WHAT THEY SAY ABOUT US.

I appreciate THE TRADER very much, and am desirous of preserving a complete file.

K. BEZANSON, Jeweler,
Hillsborough, N.B.

THE TRADER is very useful and interesting, and I would not like to be without it.

WM. PEARSON, Jeweler,
Minnendosa, Man.

THE TRADER is a credit to Toronto, and must eventually improve and elevate the different grades of the trade throughout the Dominion.

JAMES WRIGHT, Chronometer and Watchmaker,
Montreal, Que.

Your excellent publication reaches us every month and is much appreciated, so much so, that I cannot refrain from sending you my thanks for it.

J. E. SANCTON, Jeweler,
Bridgetown, N.S.

One would almost regret of its being free. Indeed it is well worth a subscription fee of \$2 yearly, considering its manifold advantages to the watchmaker and jeweler.

G. H. GAZZWELL, Jeweler,
North Sydney, Cape Breton.

A PRACTICAL TREATISE ON

THE BALANCE SPRING.

Including Making, Fitting, Adjusting to Isochronism and Positions, and Rating, also Adjustment for Heat and Cold.

BY EXCELSIOR.

PART II.

FITTING HAIR SPRINGS.

(52) *Oiling the escapement.* When everything is done, so that you are sure you will not have to take the balance out again, a little oil should be put to the jewel holes—they and the pivots being, of course, perfectly clean. Put in barely enough oil to fill the holes, but not stand at all in the oil-cup or concavity of the jewels. If it seems to be soon drawn away by capillary attraction between the hole-jewel and the end-stone, put in a little more. But put no oil on the pallets of a verge; a very little only on the long impulse lip of a cylinder; a very little on the pallets of a lever watch, but none on the ruby pin nor in the notch of the lever; a little on the roller-jewel of a duplex staff, but none on the impulse pallet; none on either the unlocking or impulse-jewels of a chronometer, none on the detent-pallet, and but little on the balance-pivots. Use none but the very best watch-oil to be had at any price. Keep the bottle closed and in the dark; keep your oil-cup perfectly clean and covered; put but little oil in it at a time, and fill it often with fresh, wiping it perfectly dry and clean with paper every time you fill it. Make an oiling-wire by taking the temper out of a sewing-needle, file it tapering to a point as fine as a hair, then turn over the extreme end, and make the smallest possible loop or ring, so close that you can

JEWELRY REPAIRS.



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- One 14 K. Hunting Case, No. J. 1071 with
Am. Watch Co. Nickel Mv't, No. 2,171,732
- One 14 K. Open Face Case, No. M. 4209 with
Am. Watch Co. Nickel Mv't, No. 2,643,060
- One 18 K. Hunting Case, No. S. 8303 with
Am. Watch Co. Nickel Mv't, No. 2,605,460
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Without Movement.

A reward in proportion to the amount of goods recovered will be paid by

J. A. D. VICKERS,

Supt. Vickers' Express Co., Toronto.

see no hole in the center, and mount it in a light handle. This loop will take up all the oil that any ordinary hole ought to have. Keep it away from soldering fluid, water or dirt, and keep it out of your mouth. Of course, if the balance, spring, etc., are at all greasy or dirty, they should have previously been hung on a wire hook and moved about in a bottle of benzene for a few seconds, then dried by exposure to the air.

(53.) *Timing the spring* Having now put the movement together, with the hands on, set it to seconds and run it for exactly one minute, changing the regulator till it is correct. Then try it for fifteen minutes, and if it is about right it may be put into the case and hung up for the final regulation. Although I have dwelt upon a large number of details, the workmen should remember that it will take little more time to do his work rightly, if he understands how it ought to be—and it has been the object of these explanations to clearly show the proper method, so that when his work is done it will be correctly done. The isochronal adjustment of the spring will be treated hereafter; also, testing and correcting the poise of the balance. I am aware that there are plenty of blunderheads in the trade who will dispute this or that proposition, which may not agree with their theory or practice. I can assure the reader, however, that the directions given or to be given may be relied upon, and are approved by those best qualified to judge in these matters.

NEW TOOL AND METHOD FOR FITTING HAIR SPRINGS

(54.) In my last article I gave the ordinary method of fitting hair-springs followed by good workmen, with such tools and appliances as every watchmaker has or ought to have in his shop. I shall now describe my own tool and method, by which we may test a spring in every way without injuring it in the least, and in a very short time, so that, if it should not be suitable for the watch on trial, it will still remain as perfect for the finest isochronal adjustment in another watch as when made—a point of considerable importance when fitting fine and costly springs.

(55.) The tool I use is not designed for fitting hair-springs only, but is applicable for measuring heights and distances in fitting staffs, cylinders, pinions, wheels, etc., also for setting and re-setting jewels, upright drilling of pivot holes, etc., chamfering and countersinking, fitting screws, and many other uses, as will be seen hereafter. It is substantially an Upright Holder, carrying arbors for different uses, and so constructed that the upright portion can be moved in any direction to bring the arbor over any hole in the watch, and there fastened. It consists of a clamp, to be fastened to the movement in any convenient place, carrying a round upright rod, movable up, down and on its own center, and having a head through which moves a horizontal slide carrying the vertical arbors.

(56.) The clamp is made from a thick piece of metal, (steel, cast iron or hard brass,) flat on its under surface, nearly rectangular in shape, $1\frac{1}{2}$ inches long, by 1 inch wide, half an inch thick in the center and one-eighth inch at the edges, with one edge hollowed out to form two projections or claws, one at each corner, and about $1\frac{1}{2}$ inches apart. Under each of these claws there is a jaw, made something like the jaws on a universal lathe chuck, capable of being fastened parallel with the surface of the clamp, and at any desired distance from it—so as to be screwed to the potance plate alone, or, if necessary, they can take in the whole thickness of the watch movement. The claws are slipped in between the bridges, or upon the plates, wherever

a good bearing can be got, and the jaws screwed up to hold the clamp firmly in place—its flat under surface being, of course, in the same plane with the plate of the watch. The jaws can be faced with thin leather or rubber, if thought best, to give them a good hold without much pressure. In that case, they could be clamped directly on the dial without danger. My own tool is made double, having two claws $1\frac{1}{2}$ inches apart as above, and, on the opposite side of the clamp, two other claws or projections only $\frac{1}{4}$ inch apart, so that one side or the other will fit readily upon all sizes of movements. The jaws are also reversible, being turned at their center to point towards either pair of claws which are in use.

(57.) Through the center of this piece or clamp is drilled a vertical hole to take an upright steel rod $\frac{1}{8}$ inch in diameter, and about $1\frac{1}{2}$ inches long, having a head at its top, and fastened at any desired height by a screw, like the centers in a bow lathe. In the head is a rectangular slot through which slides, horizontally, a steel strip $1\frac{1}{2}$ inches long, $\frac{1}{4}$ inch wide, and $\frac{1}{8}$ thick, (a piece of an old pair of tweezers will do,) edge up, and fastened wherever desired by a screw. This strip also has an enlargement or head at its inner end, with a vertical hole to take in the different arbors to be used. These arbors may be the centers of your bow-lathe, or depthing tool, or any others you have already on hand, if you do not wish to make them specially for this tool. But I advise to use tolerably large ones, at least $\frac{1}{4}$ inch in diameter, so that the head will take in arbors for setting jewels, etc., to be described hereafter. But the arbor we use for hair spring fitting should be reduced to a diameter of about $\frac{1}{8}$ inch for half an inch from each end, so as to penetrate into the smallest places, and also to enable us to bring our false regulator pins near to the center when wanted. One end should be brought to a fine central point, the other tapered down a little, and the end truly and centrally countersunk. Or two sets of arbors can be made, one fine, the other larger, each having its own horizontal slide and head.

(58.) The use of this tool is obvious. Having first fastened the clamp firmly to some part of the movement, the upright rod is inserted with the head at any desired height, and the horizontal slide placed so that the point of its arbor will rest in the balance jewel-hole, when the sides are screwed fast. We reverse the arbor, and bring the other end, which has the female center, down upon the upper pivot of the balance (or any other piece you are fitting,) and hold it upright the same as would be done by the bridge itself. The angle of this female center should be rather acute, *i. e.*, it should be deeper than it is wide at its mouth, so that it can be raised sufficiently to give the pivot freedom and yet not allow it any play sideways. The surface should be well polished and hard, kept clean and free from rust, and it will form a very tolerable substitute for the balance bridge.

(59.) This arbor has two hubs, which slide freely upon it, and are each fastened by a set screw. In each of them is fixed a steel wire, $\frac{1}{8}$ inch in diameter, pointing horizontally outward from the center of its hub. Each of these wires has a smaller hub, which slides to and from the arbor, and is fastened by a screw. One of them has two pins, to represent the regulator, the other has a clamp to grasp the hair-spring instead of the tweezers, and therefore represents a stud. This clamp can be either self-acting and spring-tight, or be opened and closed by a screw. The points are made thin, so as not to touch the adjacent coils of the spring, and both they and the regulator pins point vertically downwards. The two hubs, carrying the clamp

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and the pins, are adjustable independently of each other, as to distance from the arbor, height, and distance from each other, to correspond with the relative positions of the stud and regulator in the watch. The wires which carry the two small hubs are filed flat on one side, so that the set screws can be loosened enough to allow the hubs to slide along, while they cannot turn over. If the spring on trial requires to be altered, we simply open the clamp to release it, and raise the arbor, when the balance can be taken out, and after altering can be as readily replaced and refastened, everything being in the same position as before.

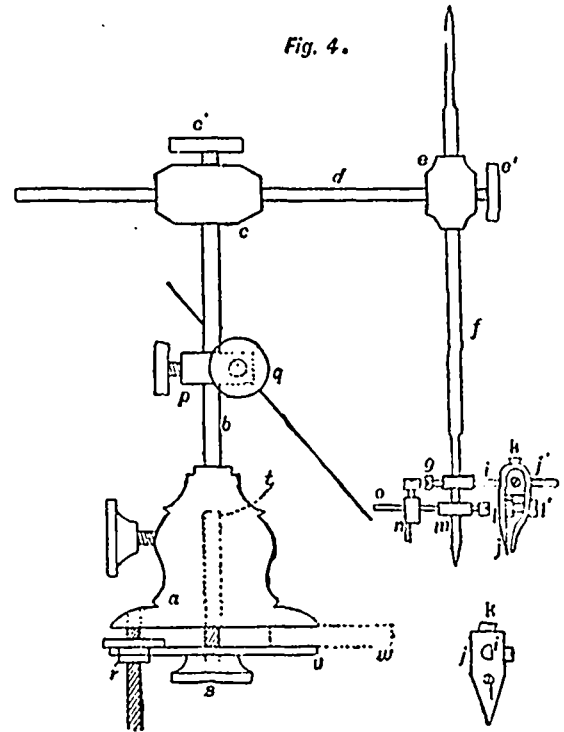
(60.) In my own tool I also have holes in different places, in any one of which a small plug with a milled head will fit—the plug being sawed through the center so that the two halves spring outward and hold the plug in any position in which it is placed. This plug carries a stiff bristle, and I place it in any hole suitable to the watch, so that by turning the milled head with the fingers I can lower the end of the bristle upon the balance rim, or raise it in an instant, for the purpose of holding the balance still or liberating it. I also provide holes for causing a bristle to rest against the balance staff while it is running, should it be desired to make the vibrations small while isochronizing the spring, as hereafter specified.

(61.) Now, there may seem to be a good deal of this tool, but it is all perfectly simple and easy to construct, and any man fit to touch a watch ought to make one all complete in a day, at the utmost. If he has much work to do it will save him days and weeks of time, to say nothing of the satisfaction in its use, and the superiority of the work. Perfection is not required in any part for hair-spring fitting—the only point at all essential is that the arbor shall stand vertically or nearly so. There is nothing obligatory about any of the sizes or details given. The rectangular slot can be easily made by riveting together flat pieces, and leaving a space for the horizontal slide. But, whatever time may be required to make it, it is a tool for which every workman will find frequent and profitable use.

Figure 4 is a sketch of a lighter and cheaper tool that I have, adapted only for hair-spring fitting. The clamp, *a*, was made from a round piece of harness mounting, and the heads, *c* and *c'*, from a piece of brass lightning-rod point,—showing how refuse scraps may be worked up into valuable tools and save cost. In this Holder, the horizontal slide is a round rod, and the vertical arbor, *f*, is simply got into line with the upright rod, *b*, by the eye, as exactness is not required in fitting hair-springs. But in the tool as previously described, the slide, *d*, should be flat, to maintain the vertical position of the arbor, *f*.

In this tool, *a*, is a round clamp, with a set screw in the center on the back side, while the front edge is filed out to make the two claws; *b*, is the vertical rod, with its head, *c*, and set screw, *c'*. This rod slides down between the two jaws, *u*, which are made from a broad flat piece of steel. The nut, *r*, runs on a screw fixed in a clamp, *a*, and its center passes through the jaws, to give more substance for the screw to hold in. The tightening screws, *s*, are near enough to the center of the clamp to be bedded in the metal up to *t*, before coming out. The dotted lines, *w*, represent a plate to which the Holder is fastened, *d*, is the horizontal rod, with its head, *e*, and set screw, *e'*; *f* is the vertical arbor, point upward. The holes are drilled entirely through the heads, *c*, and *e*, at right angles, one side of the center taking in the rods, which should be screwed in very tight and fast,—the other side taking in the set screws. *g* is the hair-

spring hub with set screw and smaller hub, *h*, sliding on the wire, *i*, which is filed flat on one side, and fastened thereon by



the set screw seen in front; *j*, is a steel strip bent around the hub, *h*, to which it is fastened by the screw, *k*, and terminating in fine points at the lower ends, which grasp the hair-spring; *l* is a brass piece riveted in the back half, to give substance for holding the screw, *l*, which draws the points together upon the spring. The small figure below is a transverse view of the same. *m* is the regulator slide, with hub, *n*, sliding on the wire, *o*, which is flattened on the top; *p* is a brass strip which slides along the rod, *b*, and turns in any direction, with plug, *q*, carrying a bristle. The set screw of this strip is long enough to fasten it upon the rod, *b*, *d*, or *f*,—wherever it will be best to have it. All the parts are drawn in the best position for showing their construction, not for use.

(62.) Our Upright Holder being fastened to the movement so that the point of the arbor rests in the lower balance jewel hole, we select a spring for trial and stick it to the staff according to previous directions, then put the balance into its place in the watch. Reversing the arbor, we bring the end with the female center down upon the upper pivot, holding it in position, but leaving it free to vibrate. The hubs having been previously slipped on the arbor and fastened by their set screws, we place the hair-spring clamp at the proper distance from the center to grasp the spring at the point which, before, we held in the tweezers, and fasten the whole properly. We then place the false regulator pins about as the real ones stand in the watch, and fasten them also. Then we loosen the arbor and turn the whole—the arbor, with its hair-spring clamp, and the pins,—all together, and bring the balance in beat, or near enough for the watch to go freely, and fasten it again.

To be continued.

AN old judge told a young lawyer that he would do well to pick some of the feathers from the wings of his imagination and stick them into the tail of his judgment.

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I love you, Aglae, ' said my love to me,
Always so tenderly he breathes my name,
The little name seems a caress to be

Clasped in an endless circlet of fair gold,
An opal—less a jewel than a fire—
Burned with bright hues whose symbols sweetly told
Of deathless love of truth and pure desire.

We studied this keen opal, he and I,
Cheek warm on cheek, hand safe in sheltering hand,
Here burned the blue of fair fidelity,
There shot the gold of wisdom and command ;

Here vivid violet, in which red and blue
Blend cunningly to tell the truth of love,
And then all suddenly love's crimson hue
Triumphantly all colors spread above.

Next sprang to light the emerald's fairy sheen,
Whereat I looked to him, he, whisperingly .
" Of old, Hope's sacred symbol was this green,
Profaned it means, love's tender jealousy."

Then glowed an orange light where red and gold
Met in an *oriflamme*, and softly he
Spoke yet again: " This union, sweet, doth hold
Sign of eternal wedlock that shall be,

Fire-like, this trembling and most vivid light
Speaks deepest passion—hear you me, my life?
Yet purely above flame reigns virgin white.
So dares this opal speak of you, my wife!"

HENRI DANGE

OVERBANKING AND ITS CAUSES.

Overbanking is a defect frequently met with in watches, and it is quite difficult sometimes to ascertain the causes, and to do the subject full justice, we would require more space than the editor would be likely to afford us.

There are several causes, each of which requires a different treatment. The most common cause is a short lever. The upright pin in the end of the lever fork nearest to the balance staff may be bent back, or its front filed away. In case of a sudden jar, that end of the fork may be jarred from its rest against the banking pin, and fall toward the balance staff. When this occurs the table rollers *should* prevent the pin passing until the ruby pin comes round into the notch in the lever and carries the lever over to the other banking pin in the normal way. But if the pin is bent or filed away, as mentioned, it will not be stopped by the edge of the table rollers, but will pass directly over the other banking. Then when the ruby pin comes around, it is of course on the outside of the lever fork, and the watch stops from overbanking. If this is caused by the brass pin being bent as described, it should be bent forward again until it stands vertical in all directions. Sometimes the table roller is not round, its edge being nearer the balance staff at one point than elsewhere, so that the brass pin can slip by it when the scant side comes opposite the pin, although it may not be able to pass at any other place. In this case the roller should be turned up, or a new one fitted in. The same thing may occur when the roller is not fitted truly

on the balance staff, or even when the staff or its pivot is bent or eccentric. The roller itself may be too small, instead of the lever being too short. How to ascertain which part is at fault would require a long and detailed explanation of the principles of the detached lever escapement, which would not be practicable to give within the space allotted to us.

Another kind of banking is caused by the lever pallets being set too far from the scape wheel, making what is called a shallow depthing. In this case, when one tooth of the wheel escapes from its pallet, the next acting tooth does not fall properly upon its pallet, that is, it does not fall upon the locking face of the pallet, and draws the fork against the banking, but comes short of it and falls upon the driving face, or working surface of the pallet. This tends to force the lever back when it should be resting against the banking, and leaves the table roller free. This backward tendency brings the upright brass pin forcibly against the edge of the roller, and retards the motion of the balance. When the latter stops and takes up its return motion, the friction between the pin and roller becomes more excessive, and assumes a sort of wedging nature, which reduces the balance vibrations to very small ones, stops it entirely, or may even bend or break off its pivots in the effort to pass by the roller and get to the other side.

If the depthing is very scant indeed, it may be detected by removing the balance, when the escape wheel will cause a continuous oscillation of the lever, and the movement will rapidly run down. This kind of banking may occur even when the escapement does not run down, but is close enough for the lever, when lightly pushed from one banking, to fly over and lock on the other banking. In this case, take a fine pin point, not half filling the notch in the lower fork, and carefully lift the lever off the banking pin, and hold it still. The lever flies forward, and the pin is no longer pushing it forward, but is now holding it back, by its presence in the notch. Then slowly let the lever pass over to the other side, till the acting tooth passes off the pallet it is forcing forward, and notice the action which follows. As it passes off, the next acting tooth will drop upon the locking face of the other pallet, if the depthing is correct, and the lever will go to the banking and rest against it. But if the depthing is scant, the lever will fly back, and the other side of the notch will rest on the pin point, tending to force it back instead of drawing it forward. When tested in this way, a very slight scantiness of the depthing may be detected, and when one or both pallets are wrongly placed. The remedy is to move the pallets upon the arbor until the depthing is correct, so that, when the lever is faced, as before described, it will draw the pin point along until it rests against the banking on the other side, and will there remain, securely locked.

As regards a rule for the position of the banking pins, it should be remembered that they are not acting parts of the escapement, but are merely barriers set up to keep the lever in proper bounds. The only possible rule is, first, to see that the escapement is correct, the parts all of proper proportionate sizes and shapes, that is, adapted for each other, and placed at the proper distances apart; then the banking pins should be so placed that they, at the same time, allow the escape-wheel teeth to rest far enough up the locking faces of the pallets to secure safe locking, and no further, and hold the lever fork in such position that the upright pin will be quite free from the table roller, and the notch will receive the ruby pin without striking on either corner—that means that the ruby will clear

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the outer corner in passing, and will strike safely below the other corner, inside of the notch. In order to conduct his operations understandingly, the workman should have a clear comprehension of the principles of the entire escapement.—*Manufacturing Jeweler.*

THE TENACITY OF STANDARD GOLD.

In the annual report of the Mint just issued, it is stated that it is well known that standard gold is rendered very brittle and unfit for coinage by the addition of a minute quantity of certain metals, the action of lead being specially remarkable. It seemed desirable to obtain more accurate data than at present exist as to the effect of impurities on the mechanical properties of gold. With this object in view, bars five inches long, each weighing about five ounces, were prepared of pure gold alloyed with pure copper in the proportion of the legal standard, as well as bars of the same alloy to which small but varying amounts of lead had been added. These bars were then cut by a planing machine into the form usually employed for testing tenacity of metals, and submitted to traction in an ordinary testing machine. The result showed that pure standard gold has a tensile strength of 18 tons per square inch sectional area. The limit of elasticity appears to be reached with a stress of $1\frac{3}{4}$ tons, and the sample of metal fractures after elongating 24 per cent. The presence of one four-thousandth part of lead reduces the tenacity of 7.7 tons, the limit of elasticity practically coincides with the breaking load, and the elongation is hardly measurable. The further addition of one four-thousandth part of lead produces a diminution of tenacity to 5.4 tons. If, however, the total amount of lead be raised to 1 per cent., the breaking point remains about the same, so that 0.5 per cent. of lead would appear to be as deleterious as 1 per cent. The effect on mechanical properties of standard gold produced by minute quantities of impurity is very remarkable, and well deserves further examination.—*Exchange.*

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.

CLEARED OUT—G. H. Gordon, jeweler, Amherst, N. S., last month left suddenly owing about \$3,500. His creditors think that another good man has gone wrong.

BACK AGAIN—Mr. James Venn, the well-known retail jeweler of this city, arrived home safely from Europe last week. He had a big time and looks well.

ASSIGNED—L. N. Paré, jeweler, of Montreal, assigned last month. His liabilities are said to be \$3,500 and his assets about half that sum. There are evidently too many retailers in Montreal.

BURNED OUT—We are sorry to learn that the store of H. C. Canneff, jeweler, of Petrolia, Ont., was destroyed by fire about a month ago, but trust he was fully insured against loss.

MR. C. E. REDFERN, jeweler, of Victoria, B. C., and formerly Mayor of that metropolis of the Canadian Pacific slope, was in the city for a few days last month purchasing goods for his fall trade. He reports favorably of the state of trade in his province.

MR. G. SEIFERT, the well-known jeweler of the city of Quebec, called on us last month to present his compliments in person. He had been West attending the Berlin Sangaerfest and on his way home dropped off to see his brother craftsmen in the Queen City of the West.

LOOK OUT FOR THEM.—We direct the special attention of our readers to the advertisement of goods stolen from the Vickers' Express Company. Any jeweler getting trace of them will be rewarded by applying to the Superintendent of the Company.

STOLEN.—Mr. B. Savage, the well-known jeweler, of Guelph, had some watches stolen from him a few weeks ago, as will be seen by our Help Column. Will the trade kindly keep a lookout for them and report to Mr. Savage if they get any trace of them.

MR. HUGH RYAN, formerly with E. & A. Gunther, of Toronto, and Levy Bros. of Hamilton, has made an engagement to take the road for Mr. Harry Ellis, wholesale jeweler, of Toronto. Mr. Ryan has a first-class reputation as a traveller, and we wish him continued success.

A GOOD TRADE.—The verdict of Toronto jewelers, both wholesale and retail, regarding the amount of business done during the Fair, is that it far surpassed in volume any previous Exhibition. The Toronto Exhibition is in time bound to become to Canada what the Leipsic Fair is to Germany.

THE MONTREAL BRIGADE, mustered in full force at the Rossin House (their usual headquarters) during the Exhibition. As a rule they looked cheerful, did a good business and left well pleased with the results. The only exception we saw was the patriarch of the brigade who complained that things are not what they once were.

SELLING OUT.—Mr. A. Brownley, jeweler, of Ailsa Craig, Ont., is, on account of ill health, trying to dispose of his business, as will be seen by his advertisement in another column. This presents a rare chance for some enterprising young man to step into a well established and good paying business.

CLOCK CATALOGUE.—The illustrated clock catalogue issued last month by H. A. Nelson & Sons, Toronto and Montreal, is one of the best of the kind ever issued in Canada. This firm is now making a specialty of clocks, and as our readers will see by our advertising columns, propose to keep in the front as regards prices and styles.

RETURNED FROM B. C.—Mr. E. G. Gooderham, Manager of the Toronto Silver Plate Co., has returned from a most successful business trip to British Columbia. Mr. Gooderham expresses himself as delighted with Canada's most Westerly Province, and expects that his company will do a large trade there in the near future. Although it was his initial trip it was a big success.

OUR CARD BASKET—THE TRADER was not altogether forgotten by our jewelers who visited the Toronto Exhibition, and our sanctum was enlivened by some of the most genial souls in the craft during the week. Amongst them were the following: Mr. Geo. Smith, of Smith Bros., Kingston, Ont.; R. E. Bywater, Brighton, Ont.; W. J. Douglas, Pembroke, Ont.; W. Harkness, Meaford, Ont.; A. S. Murray, London, Ont.; C. E. Redfern, Victoria, B. C.

A LIE NAILED—Interested parties have been circulating the report that the Montreal Optical Company sold goods at retail during the continuance of the Toronto Exhibition. Mr. Levetus, the western representative of the company, and the gentleman who had charge of the company's exhibit, requests us to state that the report is entirely untrue, as the Montreal Optical Company have never sold their goods at retail either at the Toronto fair or anywhere else. The company sell only to the legitimate trade and protect them in every way.

OUR ADVERTISEMENTS.—We need scarcely say to our readers that the advertisements that fill our columns each month are well worth perusing and studying carefully. The wide awake merchant who keeps fully abreast of the times is always the best advertiser, and our readers may rest assured that the monthly messages from these firms cannot fail to be of benefit to them. Our advertisements this month are of more than ordinary interest and we bespeak for them the careful attention of Canadian jewelers.

MR. ROBERT McLEAN, one of the partners in the firm of J. & J. Taylor, the well-known Safe Manufacturers, sailed for Europe last month by the Cunard Steamship "Etruria." Mr. McLean has stuck very close to his business for a number of years, but as their rapidly increasing foreign business made it necessary for more complete arrangements he thought he could kill two birds with one stone, by taking a combination business and pleasure trip. We wish him a pleasant and successful journey and a safe return.

GUARANTEE NOTICE.

All Spoons and Forks bearing the stamp

G. RODGERS, A 1

are made of the finest nickel silver and are plated and hand-burnished under my personal supervision, and standard of quality—each article is guaranteed perfect in finish and durability.

All Knives bearing the stamp

G. RODGERS

12 DWT.

are plated on the best English cast steel with pure silver, and are hand-burnished and warranted to give perfect satisfaction. The well-known reputation of my goods has induced other makers to adopt a similar name, calculated to mislead the public. See that the trade mark reads and is spelled G. RODGERS, A1, on Spoons and Forks, or G. RODGERS, 12 Dwt., on Knives.

SOLD ONLY BY

THE ACME SILVER COMPANY,
TORONTO,

to whom all orders should be addressed.

G. RODGERS,

Known to the trade in Sheffield, England, and on this Continent since 1846.

No connection with Joseph Rodgers, Roger Bros., Wm. Rogers, or Rogers & Bro.

THE VALUE OF EXPERIENCE—The *Keystone* speaking of the Boss says in its last issue: "An experience of thirty years in the construction of Jas Boss filled cases enables the manufacturers to furnish the 20 years' guarantee with a perfect knowledge of the character of the goods they so confidently recommend. Other manufacturers of filled cases work, comparatively, in the dark, which is not to be wondered at when their inability to command such facilities as are obtained in the Keystone Factories, especially improved and *patented* machinery, is considered." Correct you are.

TAKE IT OUT PLEASE!—"Please take out the advertisement in your Help Column, signed ——. He has lots of answers to it, and is thankful for your space and trouble." So writes one of the advertisers in our Help Column, and it is but a specimen of the letters we are continually receiving. And jewelers are beginning to realize that in THE TRADER they have an organ that goes to every one of the craft in the Dominion and that its Help Column offers them for nothing an amount of publicity amongst the trade that money cannot purchase outside of it.

"OVERBANKING."—We received a letter from an esteemed jeweler in the West, last month asking us to publish the article on "Overbanking," which appears elsewhere in this issue. At the first glance it struck us from a monetary point of view and we were inclined to doubt that many of the craft were suffering from their exertions in banking too much money. When the horological aspect presented itself, however, we thought that perhaps it would do our readers no harm to peruse it and therefore inserted it.

MR. H. L. ROBERTS, the Secretary of the Keystone Watch Case Co of Philadelphia was in the city during the Exhibition and paid us a visit. He says the Boss cases are in greater demand than ever and they can't begin to fill their orders. In spite of all competition from filled cases which are "as good as the Boss," their company is making all their filled cases up to the old standard of excellence and rather increasing than deteriorating their quality. In this we think their heads are level; the Boss case has a substantial foundation on which to rest its reputation and no matter at what price snide filled cases are put upon the market the old and reliable "Boss" is bound to sell.

FLATTERING.—The Toronto *Telegram*, in an editorial article in a recent issue, on the revival of trade in Canada, after stating that the importations of jewelry have been heavier than usual this fall, goes on to say, "A feature of the trade at present is the great and constantly increasing demand for Toronto made watch cases in gold and silver, which are reported to be equal to the best imported goods, and have almost completely captured the home market." Although the *Telegram* has been charged with being on the fence on most questions, it has evidently made up its mind in the right direction on the watch case question.

HOW WATCH CASES ARE MADE.—Quite a few of the retail jewelers from the country who attended the Toronto Exposition took advantage of the opportunity to pay a visit to the factory of the American Watch Case Company, where they were received with the utmost courtesy and shown through the works by the general manager. They were unanimous in their praise of its splendid equipment and the first-class manner in which its product was turned out, and left with the resolve that now we had a Canadian factory equal for its size to any in the world and turning out goods equal to any made, that they would henceforth support home manufacture especially as it was considerably less in price.

THE OUTLOOK.—From the indications we should say that a big business boom has struck Canada and that the coming year promises to be one of the most prosperous that this country has ever seen. Crops are good, prices above the average, and what is equally good, confidence in the country and its future seems to have been completely restored. The probability is that goods will be scarce before Christmas, especially 4 and 6 and low priced 18 size movements. Those who don't want to be left should put in their orders early. Retailers should remember that although a man should not buy goods unless he can pay for them, yet the merchant who has the stock is the one that is bound to do the selling. Don't starve your stock gentlemen!

THE BRANT MEMORIAL MEDAL—We have just had sent to us a specimen of the memorial medal which has been struck by the committee in honor of the unveiling of the Brant memorial statue. This medal is executed by Messrs. P.W.Ellis & Co. of this city and is without

doubt one of the finest productions of the medalists' art ever produced on this continent. We are proud to think that Canada can produce such a real work of art as this medal undoubtedly is, and it is strong evidence that in this branch of manufacture at least this country is fully abreast of the age. We are informed by the Messrs. Ellis that they have worked up an immense business in medals and now export them by the thousand to some of the principal dealers in such goods in the United States, who declare that their prices are not only lower but their work better than any they can get at home.

THE FREE TRADE WAY.—"A recent traveler in Germany has contributed to The Million some striking figures about the wages and living of German peasants and mechanics. One man, a hard working old twig broom-maker, earned about 15 cents a day, and his total yearly income of £68 6¹ was thus divided: Clothing, \$7 20, incidentals, \$1.22, food and lodging, \$60.22. His daily fare was bread, 3 cents a day; coffee and sugar, 2 cents; beer, 2 cents; potatoes and sauerkraut, 3 cents; all other food, 3 cents." If the free traders of England and Canada had their way this is just about what our working men would come to. We fancy Canadian mechanics even with the N. P. are very much better off than this German laborer and free trade.

HOW LANGUAGE CAN BE MADE TO HIDE AN IDEA.—We clip the following from the last issue of the London *Jeweler and Silversmith*, and insert it as a good specimen of how English free traders can shoot all around a mark without hitting the bull's eye. "The present would be a good opportunity for the watch manufacturers, who are neither a sufficiently numerous or influential body to act by themselves, for uniting with some other bodies, such as, for example, the Sheffield cutlers, who find themselves in the same condition with regard to unfair foreign competition, when doubtlessly, a *modus vivendi* could be arranged which, avoiding the stumbling-block of "protection," would enable their parliamentary representatives to frame a short Act that would remedy the existing state of affairs."

THE CHARLESTON EARTHQUAKE.—Mr E. Rosenthal, a Charleston jeweler, speaking to the reporter of the *Jewelers' Weekly* about the recent earthquake in that city said amongst other things: "My regulator stopped at nine and a-half minutes to ten, standard time, the fork being pushed out entirely from the pendulum. All the other pendulum clocks had stopped. I took up one watch which had stopped at ten minutes to ten and found the fourth wheel jewel pushed out of its setting and the lower cap jewel of the balance staff cracked. A great many clocks have been broken, and there will be plenty of work for repairers as soon as matters settle down to their former state. A curious effect of the shock was to cause the stones to fly from their settings in rings and brooches."

SCENE IN AN ENGLISH JEWELRY STORE.—In the last number of the London *Jeweler and Silversmith* we find the following: "A dock laborer came in bringing with him a watch he purchased the day before. (He was also accompanied by his mate or fellow laborer as a witness.) The man pulled the watch out of his pocket and handed it across the counter, saying, "Here, sir, I've brought this watch back, it won't go at all and it ain't an English watch." The shopkeeper held it up and looking the poor man sternly in the face, exclaimed, "Why, mein Got you can't expect a new watch to go like an old von as is used to it—'t ain't likely—you must vind it and shake it and it will come all right." I quickly made my exit from the scene, thinking the force of impudence could no further go." We have seen jewelers even in this Canada of ours who apparently knew as much about the running of a watch as this Tueton did, and they were not a thousand miles from the Queen City either.

MISSING PAPERS.—Although THE TRADER is mailed at the beginning of each month to every jeweler in the Dominion of Canada in business for himself, the publishers cannot guarantee that in every case the paper will be delivered. When the paper does not come to hand all we can do is, upon being notified, to send another copy. This we are always glad to do, and a post card to the effect that your paper is not to hand will always be promptly attended to. Some few of our readers of late have missed their papers and we are occasionally in receipt of eye openers from some of the more irate of them who seem to think that we are withholding their paper on purpose. All such may rest assured that such is not the case and we are as pleased to send it to them as they can be to get it. We are glad to find that we

The ILLINOIS WATCH COMPANY are now delivering their new FOUR and SIX size movements.

The SMALLEST, PRETTIEST and BEST Ladies' Watch is the new FOUR size made by the ILLINOIS WATCH COMPANY.

**THE
ILLINOIS WATCH COMPANY**

*Warrants every movement of every size
manufactured by it.*

KEEP YOUR EYE ON THIS PAGE IN NOVEMBER.

It will be MONEY in your pocket to place your order early for the new ILLINOIS WATCH COMPANY FOUR size movement.

Everyone who tries the present product of the ILLINOIS WATCH COMPANY orders again.

are missed and the fact that some of these letters are written in bad temper is proof positive that the writers miss our journal and are bound to get it if there is any get to it.

LOOK OUT.—About a week ago burglars tried unsuccessfully, we are glad to say, to burglarize the premises of Mr. Charles Stark jeweler and gunsmith of Church Street, Toronto, and a few nights afterwards they succeeded in cracking the safe of P. Jamieson, clothier, on Yonge Street. At this time of the year this country is generally visited by droves of crooks from across the border to whom the ordinary fire proof safes in which the valuables of our country jewelers are usually held, are about as soft a thing as they could desire. Our advice to all jewelers is to keep a sharp lookout for the safety of their premises, more especially to those who have not got burglar proof safes. To the latter we would say if you can't afford to buy a good safe, place your present one so that it can be easily seen from the street and keep a light burning all night so as to light it up. If you sleep on the premises get a small Scotch or English terrier dog, they are better than any watchman and cost less. If no one sleeps on the premises, have two watch dogs, a terrier and a large savage mastiff or bull dog if possible locked in the store all night, and your chance of finding your stock safe and sound every morning will be very much bettered. There is nothing a burglar likes better than to get into a dark store, especially when the safe is in some out of the way place where it can't be seen from the street. The above hints can be put into practice with little expense or trouble and will add materially to the safety of any merchant's premises. A word to the wise should be sufficient.

SHAKESPEARE MODERNIZED.—The *American Storekeeper* gets off the following improvement on Shakespeare in a recent issue: "There is a tide in the affairs of men, which, taken at the flood, leads on to fortune, omitted, all the voyage of their lives is bound in shallows and in miseries." After ebbing for years, and after a yet more trying season of dead "slack water," the tide of commerce now begins to make strongly. The shrewdest and most careful observers agree that the flood is fairly upon us. It is a tide which comes but once in ten years—a commercial life-time. The next few months bids fair to prove the turning point in the business career of this generation of merchants. The care and skill, the boldness and discretion with which you buy Fall and Winter stock, and the vigor and prudence with which you reach out for the trade of the coming season, will go far to determine whether this tide is to carry you to success and a competence, or whether you are to wait another ten years, stranded "in shallows and in miseries," for another chance. Have you that ten years to spare, and are you content to spare it? "Fortune knocks once at every man's gate." Flighty, but a great deal of truth in it all the same.

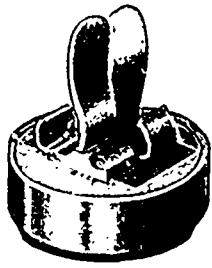
HE HAS ABSCONDED.—Some excitement was caused in jewelry circles on Monday last by the report that Julius Urwitz, proprietor of the retail business formerly owned by Mr. S. P. Kleiser and run under the name of the Toronto Watch Co., had disappeared. His liabilities amount to some \$6,000, but at the present time of writing the assets are an unknown quantity. The principal creditors are mostly Montreal merchants and have made an affidavit and on it the sheriff has taken charge of the store and will get an expert to open the safes. Mrs. Urwitz says she knows nothing of her husband's whereabouts, but expects him back in a few days. Meanwhile the creditors are anxiously awaiting developments. If any further lesson were wanted of the absurd way in which our wholesale jewelry trade give credit to irresponsible parties, this case would furnish ample material. Only a few days before he disappeared, a prominent wholesale firm sold him \$1,400 worth of goods and would have probably doubled that amount had Urwitz pressed it. What foundation there is for giving such people credit we fail to see, and were it not that if it goes far enough it is sure to work its own cure, we might feel constrained to draw a moral from this but too common event. Credit is entirely too cheap in Canada, and the sooner that our wholesale men begin to protect their honest retail customers by refusing credit to irresponsible men, the better for their own pockets. Since the above was in type we learn that the entire stock left behind by Urwitz, exclusive of fixtures does not amount to more than \$300. As his wife is said to be trying to effect a compromise at 25 cents on the dollar for him, it is beyond doubt a premeditated swindle and a fit case for stern justice. The creditors have a detective working up the case and we trust that no compromise of any kind will be entertained. We will have more to say about this later.

LITERARY NOTES.

"WATCH AND CLOCK MAKING," by David Glasgow, Vice-President of the British Horological Institute, is the latest text-book on this subject. From the hasty glance we have had through it, we should say that the book is extremely well written and contains much of interest to all watchmakers. In the preface the author says, "This volume is intended not only as a text-book for technical classes, but it is designed also as a book of reference for the practical workman." It is splendidly illustrated with 69 new and original engravings, which go far to make the contents plain even to the youngest mechanic. Taking it altogether we should say that this book is one that every watchmaker who desires to become a thorough workman should obtain, as it brings before him in a concise form the latest researches upon this very important subject. The work is published by CASSELL & COMPANY, (limited,) 739 Broadway, New York, where it can be had by all those who wish to keep abreast of the times.

ST. NICHOLAS is one of the best periodicals for young people published anywhere, and the October number is fully up to its usual high standard. An elegant portrait of Martha Washington, makes an admirable frontispiece, and the continued historical article on the life of George Washington, is embellished by a well executed wood cut of the "Father of his Country," and several other illustrations of interest. This number contains many choice engravings, amongst the best of which are "The Tomb of Maximilian I," "How many a boy was taught to string the bow and how to lay the bolt," and "The Weasel and the Adder." The Letter-press is as usual fully up to the mark. "Little Lord Fauntleroy" still continues to keep up its interest, while in "Some Curious Mariners," "The Crew of the Captain's Gig," and "Old Time Arms and Armor," we have three short articles that it would be hard to excel. We know of no periodical for young people, healthier in tone, abler or more interesting in its splendidly illustrated articles, than *St. Nicholas*.

THE OCTOBER *Century*.—Without doubt the *Century* magazine stands at the head of all publications of its class, and the October number is fully up to its own high standard. To Canadian readers it is of more than ordinary interest on account of Capt. J. W. Collin's article in "Open Letters" on the outlook of the fishery dispute between Canada and the United States. The war papers are as usual splendidly illustrated and of absorbing interest. General W. S. Rosecrans gives a vivid description of his victory at "Corinth," which is interesting in the extreme. The chief attraction of this number will, however, be found in the articles on "Stonewall Jackson." These consist of personal reminiscences of the great southern general, by his sister-in-law Mrs. Margaret J. Preston, and "Stonewall Jackson's 1st battle," by his aide-de-camp Capt. James Power Smith. In the latter article, Capt. Smith, after describing the memorable battle at Chancellorsville, gives a vivid pen picture of the wounding of this great southern hero. The entire article is so absorbing that one cannot lay it down until it is finished, and we are sorry we have only space for one single extract from it. After describing the wounding of the general and the attempt to carry him off the field under a terrific artillery fire from the federal batteries, during which two of those bearing the litter on which lay the body of their beloved commander fell, Capt. Smith says, "the litter was soon brought, and again rallying a few men, we essayed to carry him farther, when a second bearer fell at my side. This time, with none to assist, the litter careened, and the general fell to the ground, with a groan of deep pain. Greatly alarmed I sprang to his head, and, lifting his head as a stray beam of moonlight came through clouds and leaves, he opened his eyes and wearily said, 'Never mind me, Captain, never mind me.' Raising him again to his feet, he was accosted by Brigadier-General Pender: 'Oh, General, I hope you are not seriously wounded. I will have to retire my troops to re-form them, they are so much broken by this fire.' But Jackson, rallying his strength, with firm voice said, 'You must hold your ground, General Pender, you must hold your ground, sir!' and so uttered his last command on the field." The illustrated article by Franklin D. North on "The Gloucester Fishing Fleet" is a most timely one and gives a vast deal of information about our deep sea fisheries in a very readable form. Matthew Arnold contributes an interesting article on "Common Schools Abroad" and President Gillman of John Hopkins University writes on "Hand-Craftsmen and Hand-Craft," an ed-



OPENED

UTILITY LEVER CUFF BUTTONS



CLOSED.

SOLID GOLD FRONT, REAL STONE & ROLLED GOLD PLATE.

The largest line of the above Goods in Canada. Selection packages to responsible Jewelers throughout the country at rock bottom prices.

H. BENHAM & CO., IMPORTERS AND JOBBERS, 75 YONGE ST., TORONTO.

OUR SPECIAL \$55.25 OCTOBER OFFER.

We are now stamping our Chucks "Moseley" on the face. Take your choice, the genuine or imitation



AMERICAN LATHES

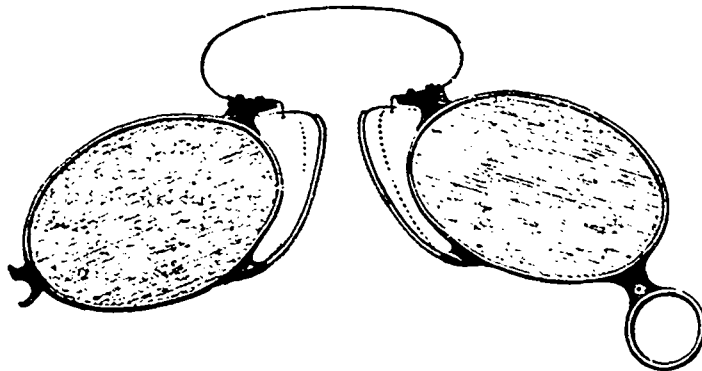
Are now absolutely necessary to secure a situation in any shop in the United States. The best shops in Canada also insist on their workmen being supplied with a good American Lathe. Fit yourself to hold the best situation in a first-class shop by buying a Moseley, the *best*, therefore the *cheapest*.

READ OUR BIG OCTOBER OFFER: To enable every Watchmaker, Improver and Apprentice to advance his position, we offer for this month a Moseley -with head and tail stocks, 1 No. 6 Wire Chuck, 1 No. 8 Wire Chuck, 1 No. 10 Wire Chuck, 1 No. 24 Wire Chuck, 1 No. 48 Wire Chuck, 1 No. 2 Wheel Chuck, 1 No. 4 Wheel Chuck, 1 Screw Chuck, 1 Taper Chuck, 6 Cement Brasses, 6 Steel Tapers, 1 Boxwood Polishing Lap, 1 Emery Lap for grinding Dials, Drills, Cutters, etc., Chuck Block and Belt ing, complete as above, for \$55.25.

Avail yourself of this unparalleled offer. Every Moseley Lathe guaranteed absolutely perfect in every particular. Full illustrated Catalogue on application.

E. BEETON, Canadian Agent, P.O. Box 193, TORONTO.

The Montreal Optical and Jewellery Company, L'd.



INVITE the attention of the Trade to their splendid assortment of Eye Glasses for Fall Trade, including all the latest improved styles, in particular their new CELLULOID EYE GLASS with cork lined nose pieces as shown in above cut; these latter are considered by all who have seen them as

The Very Best Line in the Market.

If you cannot wait till travellers call on you send for samples. 1,000 circulars with your name on free of charge with six dozen of these Eyeglasses.

N.B.—AXIS CUT PEBBLES A SPECIALTY.

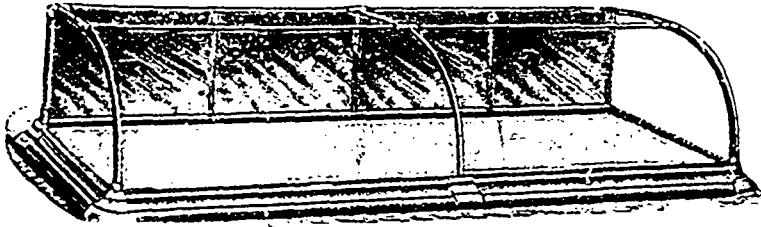
Montreal Optical and Jewellery Co., Ld., 1685 Notre Dame St., Montreal.

Dominion Show Case Manufacturing Co.

J. P. WAGNER. C. SCHACK. H. G. LAURENCE. WM. MAHR.

SILVER MEDAL Toronto Exhibition, 1884 & 1885.

FIRST PRIZE, Provincial Fair. Ottawa, 1884.



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

Hardwood Store Fittings, Metal Sash Bars, etc. Send for Catalogue and Price List

SHOW ROOMS AND FACTORY:

59, 61 & 63 ADELAIDE ST. WEST, TORONTO, ONT.

ASK YOUR JOBBER FOR GOODS OF THE MAKE OF

C. E. HAYWARD & CO.,

Successors to HAYWARD & BRIGGS;

MANUFACTURERS OF FINE ROLLED PLATE JEWELRY,
179 BROADWAY, NEW YORK.

“THE MORTON” PATENT POST SLEEVE BUTTON.

Patent Bracelets, Link Buttons, Collar Buttons, Vest Chains, Hair Chain Mountings, Seals, Locketts, Charms, Jewelers' Findings, Etc.

Factory: ATTLEBORO, MASS. Buyers invited to call at our New York Office and examine new goods.

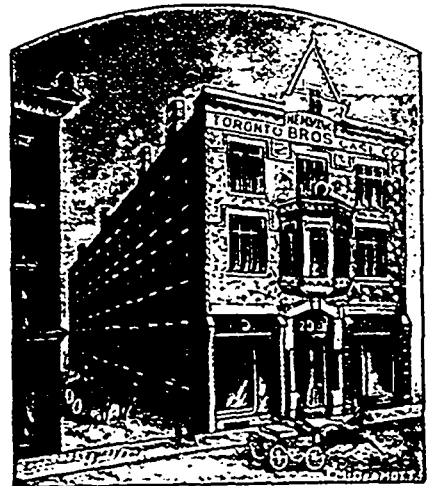


JEWELRY CASES

Plush, Velvet, Morocco, Paper.

SILVERWARE CASES

In latest styles, at every price.



TRAYS FOR ALL KINDS OF JEWELRY.

Plush, Walnut and Cloth-Bound. Plush, Velvet and Satin-Lined.

—SAMPLE GRIPS— • —TRAVELLERS' TRAYS—

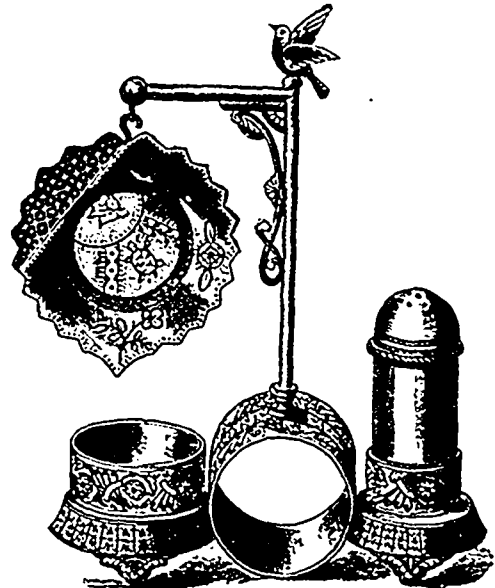
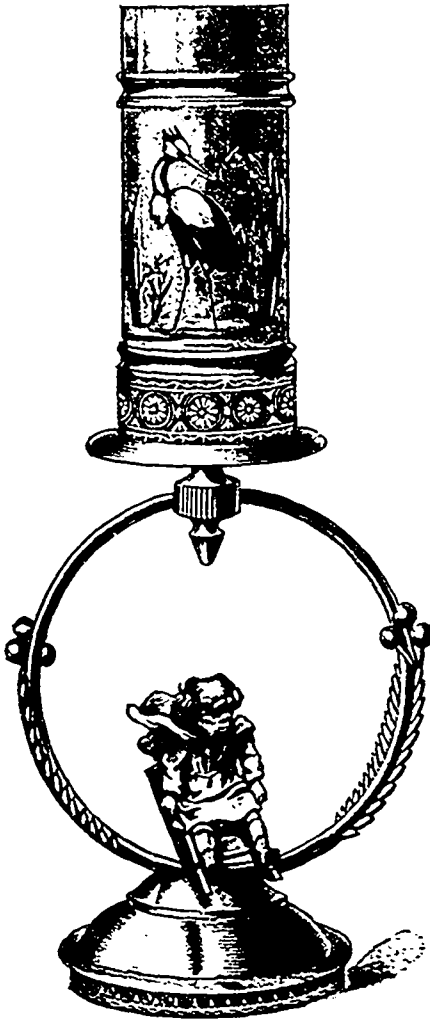
COMPLETE STOCK ALWAYS ON HAND. MAIL ORDERS SHIPPED PROMPTLY.

HEMMING BROS.,

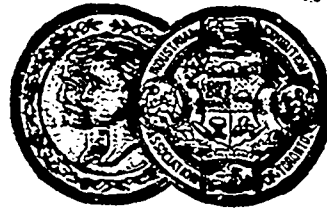
29 ADELAIDE STREET EAST, - - TORONTO.

TORONTO SILVER PLATE CO'Y.

NEW GOODS.



CHRISTMAS SPECIALTIES.



ONLY GOLD AND SILVER MEDALS AWARDED TORONTO INDUSTRIAL EXHIBITION, 1885.

OUR TRAVELLERS WILL SHORTLY CALL ON YOU WITH FULL LINES OF SAMPLES OF STAPLE AND CHRISTMAS GOODS.

ucational topic of the present day. In the continued story of "Lemmel Baker," Mr. Howells keeps up the interest unflagged as befits one of the best of the present day novelists. Among the short stories "A Soldier of the Empire," by T. N. Page, will be found first-class reading. The good things in this number are so plentiful that space forbids us saying more than that they are all well worth reading, and no class of reader can fail to find something suited to his individual taste.

The illustrations are as usual executed in the highest style of the wood engraver's art and contain some very admirable portraits of celebrated men, amongst whom are "Bjornstjerne Bjornson" Sweden's great statesman, and Rosecrans and Jackson, generals of the late civil war.

The editor of the *Century* makes the important announcement that in the November number of that magazine, they will commence the publication of the authorized "life of Abraham Lincoln," by John G. Nicolay and John Hay who were the great war President's private Secretaries. Lincoln is not only one of the grandest figures in America, but in the world's history, and these papers will therefore be of the greatest possible interest to thinking men the world over.

WORKSHOP NOTES.

GOLD TINGE ON SILVER.—A bright gold tinge may be given to silver by steeping it for a suitable length of time in a weak solution of sulphuric acid and water, strongly impregnated with iron rust.

TO SEPARATE GOLD FROM SILVER.—The alloy is to be melted and poured from a height into a vessel of cold water, to which a rotary motion is imparted, or else it is to be poured through a broom. By this means the metal is reduced to a fine granular condition. The metallic substance is then treated with nitric acid, and gently heated. Nitrate of silver is produced, which can be produced by any of the ordinary methods; while metallic gold remains as black sediment, which must be washed and melted.

MOUNTING THE DIAL.—The pin holes in the dial feet should be drilled with a very small drill, in such a direction that the pins will not come in the way of anything and will be easily gotten at; they should not be drilled below the surface of the plate, but broached until the pin touches it. If the hole should be a little below the surface, it is better to lengthen the copper foot by squeezing it with a pair of blunt nippers until it is above the plate, than to leave it in such a position that no pin can stop it.

RECOVERING GOLD FROM EXHAUSTED COLORING BATHS.—The collected old coloring baths are poured into a sufficiently large pot, an optional quantity of nitro muriatic acid is added, and the pot is placed over the fire, during which time the fluid is stirred with a wooden stick. It is taken from the fire after a while, diluted largely with rain water, and filtered through coarse paper. The gold is recovered from the altered solution with a solution of proto-sulphate of iron (green vitriol), which is stored in air-tight bottles, then freshened with hot water, and finally smelted with borax and a little saltpeter.

SIMPLE TEST BY THE SPECIFIC GRAVITY.—The goldsmith, after having smelted his bench scrapings, sweepings, etc., and reduced it into a button, desires to roughly estimate the percentage of the precious metals contained in it. This can be done approximately as follows: A certain quantity of it is taken and drawn out into a wire, which is to be exactly of the same length as one from fine silver; of course, both must have been drawn through the same hole, silver being nearly one-half lighter than gold, it is natural that the one of fine silver must be lighter, and the increased weight of the wire under test corresponds to the gold contained in it.

DUST PIPES.—Dust pipes are indispensable in a key watch, and when properly screwed on the plate and fitted to the case are expensive. This part of the watch is frequently treated with utter disregard, and we lately saw a very bad case of dust pipe of the set-hand square of a three-quarter plate watch. It was so constructed that if it was made to touch the case it would press upon the center pinion and stop the watch or make it go irregularly; to avoid this, the center parts are left with sufficient end shake to defeat the purpose for which it is designed. A solid top offers advantages in respect to dust, and perfects the key winding watch to an important degree.

THE BARREL ARBOR.—If the pivots of the barrel arbor are of the proper shape (which they generally now are in the best movements, and certainly ought to be), the pivots and holes will only require smoothing, and the barrel freeing on the arbor. Instead of adopting the usual course of turning away the bosses in the barrel and cover to reduce the rubbing surfaces, a deep hollow should be turned and a shoulder formed on each side of the arbor of a sufficient width, and the bosses should be left on the brass as large as possible. It has not been the practice to snail the barrel arbors of fusee watches as there was no trouble with the adjustment of the mainspring. English springs being tapered and generally filed thin at the eye, but the arbors should be snailed (and they probably will be now by the movement makers), and the hook should not project beyond the thickness of the spring.

WISE AND OTHERWISE.

Two bad little boys of Tarentum
First borrowed some pins, and then bent 'em
When their pa took a seat,
They both beat a retreat,
As likewise did the fellow who lent 'em.

A COUNTRY doctor announces that he has changed his residence to the neighborhood of the churchyard, which he hopes may prove a convenience to his numerous patients.

"WHAT is the reason," said an Irishman to another, "that you and your wife are always disagreeing?" "Because," replied Pat, "we are both of one mind—she wants to be master, and so do I."

We are not obliged to believe everything we hear. Stanley was told at Karagwe of a strange people "who had long ears descending to their feet; one ear formed a mat to sleep on, the other served to cover them from the cold, like a dressed hide."

AN indifferent actor was playing in *Othello* at the Duncun Theatre. When he came to the passage, "O that men should put an enemy in their mouths to steal away their brains!" a stentorian voice roared from the gallery. "All right, old man, drink away, you're safe."

A Connecticut man claims to have a cat that eats cucumbers. May be all cats do, and that's the music that we hear from the back fences. Instead of being the outpouring of joyful cat hearts, is the wail of the unrequited cucumber down in the deep recesses of the cat. Come to think of it, it looks reasonable.

"YOUNG Philosopher" would like to inquire what a "safety" match is, and why so called. A safety match is one in which the young man owns a span of horses, a three-storey house, and a seal ring, while the young lady's father is the possessor of sixty thousand dollars in government bonds, and a whole square of brick blocks.

SYMPATHY always indicates a certain refinement of nature, but it is sometimes curiously misplaced. The Siamese twins were on exhibition, and among the spectators was an Irishman who had an original way of looking at things. He told a friend who was standing at his side that the most fortunate thing in the world was that they were brothers, because if they had been strangers to each other they would never have been able to get on together.

THERE is a fearfully romantic story going the rounds of the papers to the effect that a young man who was packing eggs wrote on one of them a request that the purchaser would correspond with him and that the incident led to matrimony. This is all in accordance with natural law, however. We have been told that an egg is full of "meet" and the couple met eggsactly as one would eggspect. The only fear we have in connection with the transaction is that the husband was hen-pecked.

THE following conversation was recently overheard, not very far from where we write it.

"I understand you failed in business, Mr. Fraudenburg?"

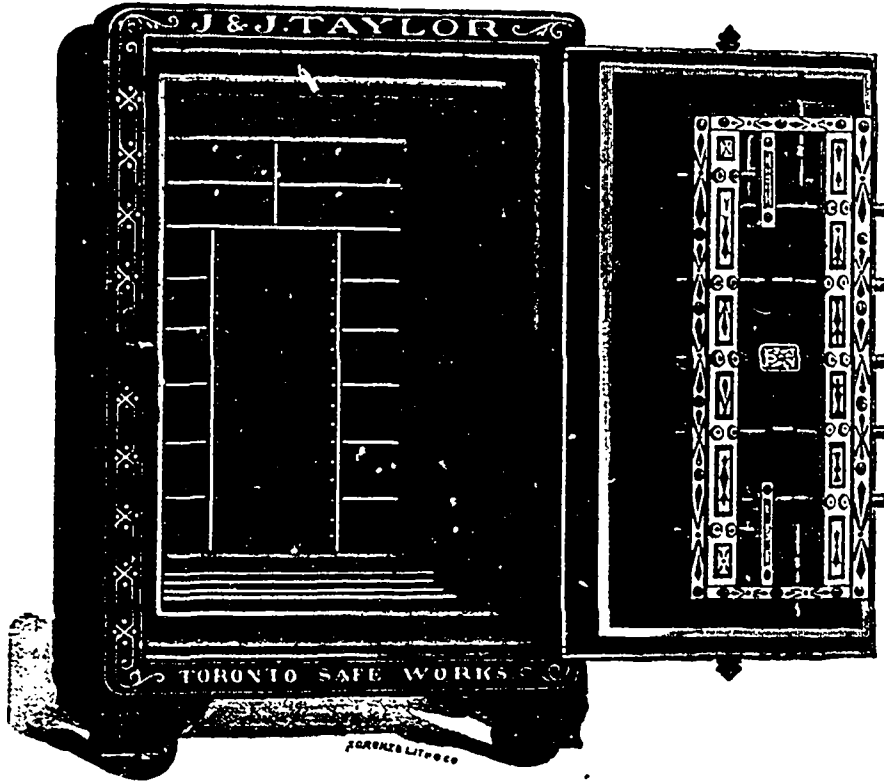
"Yes, I was unfortunate in a private speculation, but that is not the worst. I was grossly deceived."

"Yes; how so?"

"In my assignee. He's a scoundrel. He wormed his way into my confidence and made me pay ninety-six cents on the dollar! Did you ever hear of such an outrage?"

SOMETHING NEW IN JEWELERS' SAFES

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



DOUBLE TONGUE AND GROOVE
FIRE-PROOF DOORS.

WITHE

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.

Visitors to the coming Industrial Exhibition can see samples of these safes at our exhibit in the Main Building. Do not fail to examine them.

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



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MANUFACTURERS OF STANDARD

ELECTRO, SILVER AND GOLD PLATE.

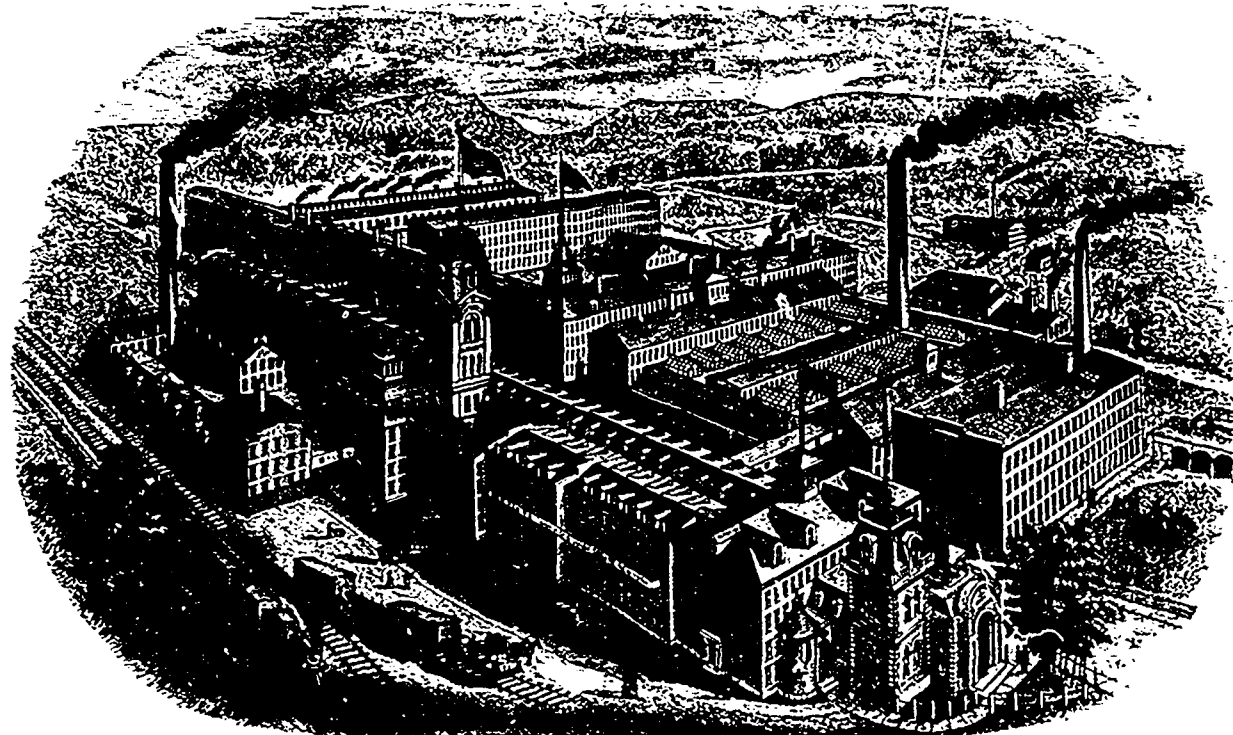


HIGHEST HONORS OVER ALL COMPETITORS,

—AND—

Only Gold Medal Awarded at Toronto Industrial Exhibition, 1884.

WAREHOUSES: Chicago, Ill., San Francisco, Cal., London, Eng.



WAREHOUSES: Union Square, N. Y., Meriden, Conn., Hamilton, Ont.

MANUFACTORIES: Meriden, Conn., U.S. and Hamilton, Ont.



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this Trade Mark is stamped on all Hollow
Ware of our manufacture.

TRADE

**1847, Rogers Bros., A I,
OR
1847, Rogers Bros., XII
MARK**

OBSERVE

this Trade Mark is stamped on all
Knives, Forks, Spoons and
other flat ware of our manu-
facture.

The A I Goods are Standard Heavy Plate, and XII signifies that in addition the articles have an extra quantity of Silver on all the parts most exposed to wear.

The Meriden Britannia Company have been awarded the highest premiums wherever exhibited, from the WORLD'S FAIR, 1863, to the PRESENT TIME, and the high reputation of our Goods throughout the world has induced other makers to imitate our Trade Marks and name as well as our designs, and as many of our patrons have, through a similarity of names, purchased inferior goods under the impression that they were our manufacture, we are compelled to ask especial attention to our Trade Marks.

THE FACT THAT OUR NAME AND TRADE MARKS ARE BEING SO CLOSELY IMITATED SHOULD BE A SUFFICIENT GUARANTEE TO THE PUBLIC THAT OUR WARES ARE THE BEST IN THE WORLD.

● WE RE-PLATE OLD WORK AND MAKE IT EQUAL TO NEW. ●

ELGIN NATIONAL

B. W. RAYMOND.



FULL GILT MOVEMENT.

15 Jewels (4 pairs Settings), Compensation Balance, Breguet Hair Spring, Patent Regulator, Adjusted, Double Sunk Dial, Safety Pinion, Finely Finished throughout.

H. H. TAYLOR.



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FULL GILT MOVEMENT.

15 Jewels (4 pairs Settings), Compensation Balance, Patent Regulator, Safety Pinion, Dust Band.

Our complete line of

18-SIZE, FULL PLATE, OPEN FACE,

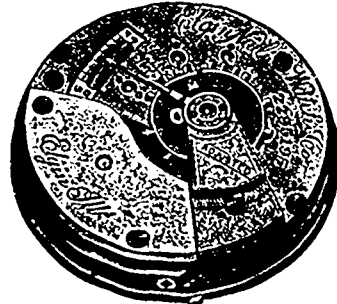
Pendant Set Movements, all with Quick Trains and Straight Line Escapements, as herewith illustrated, are the most perfect in construction and reliable as time-keepers now on the market.

Deliveries have been made of all grades to Jobbers, although the demand far exceeds our ability to produce them.

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New York Office: 22 John Street.

No. 76.



FULL GILT MOVEMENT.

15 Jewels (4 pairs Settings), Compensation Balance, Breguet Hair Spring, Patent Regulator, Adjusted, Safety Pinion.

No. 75.



FULL GILT MOVEMENT.

15 Jewels (4 pairs Settings), Compensation Balance, Patent Regulator, Safety Pinion, Dust Band.

No. 74.



FULL GILT MOVEMENT.

11 Jewels, Compensation Balance, Safety Pinion, Dust Band, Fine Regulator and Index.

No. 73.



FULL GILT MOVEMENT.

7 Jewels, Compensation Balance, Safety Pinion, Dust Band.

GENERAL OFFICE: 76 MON ROE STREET, CHICAGO, ILL.

WATCH COMPANY

OTHER NOTES.

MOUNT HAMILTON OBSERVATORY.—The contract for mounting the great Lick telescope at Mount Hamilton Observatory has been awarded to Warner & Swasey, of Cleveland, for \$42,000.

THE AGE OF A WATCH.—It has been estimated that the average life of a watch is five years, and that during that time 5,000,000 watches are made and sold. In former years, before the labor-saving machinery now so extensively used was invented, the annual output for each man employed was fifty watches; now with the help of machinery, each man employed at the business is enabled to turn out one hundred and fifty watches annually.

THE GREAT LICK TELESCOPE.—The great Lick telescope, when mounted and swung against the sky, will have a focus of fifty-five feet in length, and nearly fifteen longer than the largest one ever made. It will be a refractor, which means that the image is formed directly to the eye by the object glass, as contra distinguished from the Gregorian and Herschelian telescopes. The largest telescope ever known of the latter style was Dr. Herschel's. The tube lacked but eight inches of being forty feet in length.

A SOLAR CLOCK.—A prominent watchmaker in Rio Janeiro has a solar clock fitted up in his establishment which is not only ingenious but practically solves the question of perpetual motion for those places where the sun shines perpetually. He has an electric-bell apparatus in the upper story, and the two wires from the battery are furnished each with a thin, flat horizontal piece of metal, separated by a distance of four to five millimeters one from the other. Just above the flat pieces of metal a bi-convex lens concentrates the rays of the sun upon them at a certain moment, noon, for instance. The action of the sun's rays heats and bends the metal pieces so that they come in contact, thus closing the electric circuit, which rings the bell. This is not all that Mr. Magnin required of the sun; he forces it to wind up the clock in his own room at the same time. The barrel arbor carries a click and a ratchet, which is wound up by the hammer of the electric bell as it moves forward and backward, striking the hour. And even this is not all—this sun has to regulate the clock also. The canon carries a washer with an indentation corresponding to a jointed lever, which is set in motion by the armature of a magnet, and at noon turns the canon so as to bring the minute hand upon the figure twelve.

ROYAL RELIQUES.—A valuable collection of art articles, the history of which is closely allied with the "house of the Hohenzollerns," will shortly be offered at auction in Berlin. Among other objects is one of those artistic snuff boxes of Frederic the Great which he used to present, filled with the golden cats, to his generals. The cover, beside the Black Eagle and the golden star, bears the legend: "Dieu vit et Frédéric notre héros," (God lives and Frederic our hero), surrounded by a laurel wreath, it bears the names of the battles fought by him from Mollwitz to Zorndorf. Engraved upon the right side are the words, "Vive le roi de Prusse Frédéric le grand," and upon the left side, "Honi soit qui mal y pense." Another snuff dose of the same period is remarkable for its history. Although this great king used to bestow these doses only to generals and ambassadors, he made one exception by bestowing one upon a merchant—an Israelite—who, although very orthodox in his creed, rendered very eminent services during a night, from Friday to Saturday, at the burning of a Catholic church at Oppeln, contrary to the tenants of his religion, and, by almost superhuman efforts, he saved the holy vessels and cut the altar pictures out of their frames. The priests presented him with two commemorative silver vessels, and the king sent for him, and, in a special audience, presented him with the dose, which has until now been preserved in his family. The king was very particular in having all his subjects, without reference to creed, treated alike. A colonel refused repayment to a Jew from whom he had borrowed a sum of money. The former reported him to the king, who grew very angry, and wrote an insulting letter to the colonel, ordering him to pay forthwith or be cashiered, closing with the words "I want you to understand that this Hebrew pays his taxes to me just as well as you do, and you are therefore no more to me than he is, Frederic."

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.

When requested, these advertisements will be published in successive numbers of the paper.

If you have a Store, Stock, or any Special Article to sell, if you wish to buy an Established Business, or enter into Partnership; if you want a Journeyman, Clerk, Salesman, or Foreman; if you want a situation yourself—communicate the fact to THE TRADER PUBLISHING CO., 57 ADELAIDE ST. WEST, TORONTO, and it will be inserted in this column free of charge. This is the only way by which you can reach the entire Trade, and we shall be glad to help you.

A RESPECTABLE YOUTH of 16, wishes to learn the watchmaking. Best of references. Apply stating terms to W. E. BROUEN, Box 224, Elora, Ont.

A YOUNG MAN who has worked in a retail store for three years would like to get a situation in a wholesale jewelry business, or would clerk in a retail jewelry store. Address, CLERA, care TRADER PUB. Co., Toronto, Ont.

A BOY of sixteen years of age wants to serve his time in the Watchmaking and Jewelry Business. Has a natural taste for same. Highest of references. Address, P. O. Box 61, Cowansville, P. Q.

A GENTLEMAN of eight years' experience wishes position as traveler or bookkeeper in a first-class house. Best of references. Address, R. H., Box 55, Oakville, Ont.

JEWELRY, Stationery and Fancy Goods Business for Sale in a thriving village north of Toronto. Well established. No opposition. Stock and Fixtures about \$1200. Good reasons for selling. For particulars, address, Box 30, Sunderland, Ont.

STOLEN from G. T. Train, Sept 14th, parcel containing Ladies Small Hunting Embossed Case Watch, No. 65,726, maker, Patek Philippe & Co., two No. 74 Elgin Movements, Nos. 2,332,242 and 2,332,247, one Mexican Dollar, four American Dollars, one Ring with six white stones, one Gold Band Ring, and one colored Gold set, rope pattern. Reward by B. SAVAGE, Jeweler, Guelph, Ont.

WANTED—THREE FIRST-CLASS WATCHMAKERS. Apply at once to THAYER & Co., 3 Wellington Street, East, Toronto.

WANTED—A SITUATION as Watchmaker by a young man, having had over five years' experience. Can furnish good references. Address Box 242, Cobourg, Ont.

WANTED.—A SITUATION by an honest and sober young man, 20 years of age, with a good watchmaker to finish his trade. Can furnish best reference. P. Booth, care of A. M. Leger, Shediac, N. B.

WANTED A SITUATION to learn the watchmaking and jewelry business, by a careful and steady young man. Apply to FRANK PURVIS, Lyn. (Leeds Co) Ont.

WANTED, A SITUATION BY A YOUNG MAN, FIRST-CLASS Watchmaker, best of references. Communicate with Victor Rost, care George Hodgins, 169 King St. East, Toronto.

WATCHMAKER, age 17, wants situation good set of tools; can pivot, staff, etc., and do all general work. Best references. Would go as improver. Address W. S., 51 Richmond St. East, Toronto.

WANTED—A SITUATION to learn the watchmaking and jewelry business, by a careful and steady young man with a good commercial education and references. Apply to Geo. M. Trimble, Napanee, Ont., Canada.

WANTED—SITUATION by a young man, nineteen years of age, under a competent watchmaker, to finish his trade. Three years at the bench and can do all ordinary watch, clock and jewelry repairing. Good references. P. Wellings, Whitechurch, Ontario.

THE TRADER is printed by R. G. McLEAN, 13 Adelaide St. E., Toronto, who makes a specialty of Jewelers' Work. Samples and estimates on application.

LEVY BROTHERS,

HAMILTON.



It is our intention to offer to the trade for the Fall season, special inducements in Clocks. We are prepared to sell from Stock

ANSONIA CLOCKS

at prices which will compare with any in Canada. Legitimate dealers who can use these Clocks in case lots will be furnished with special prices on application for goods in Bond at Factory.

We carry a large stock of **New Haven, Seth Thomas and Ingraham Clocks** which we will sell at bottom prices.

Our Price List, comprising New Haven, Ansonia and Seth Thomas Clocks is now in the Printer's hands. We will mail it to the trade with the different Catalogues within a few days.

OUR STOCK WILL BE FOUND AS USUAL WELL UP IN

GOLD, GOLD FILLED AND SILVER CASES.

A. W. G. Co.
Dueber.
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Perfection.
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Elgin, Waltham, Hampden, Illinois and Swiss Movements.

*We carry all the latest movements made and can furnish the trade any movements required with the **24 HOUR DIAL.***

**ENGLISH JEWELRY, FINE AMERICAN PLATED JEWELRY, WATCH TOOLS & MATERIALS,
OPTICAL GOODS, SWISS WATCHES, FULL LINE OF THE CELEBRATED
W. B. & CO. WATCH GLASSES.**

SMITH & PATTERSON

46 Summer St., BOSTON. 132 St. James St., MONTREAL.

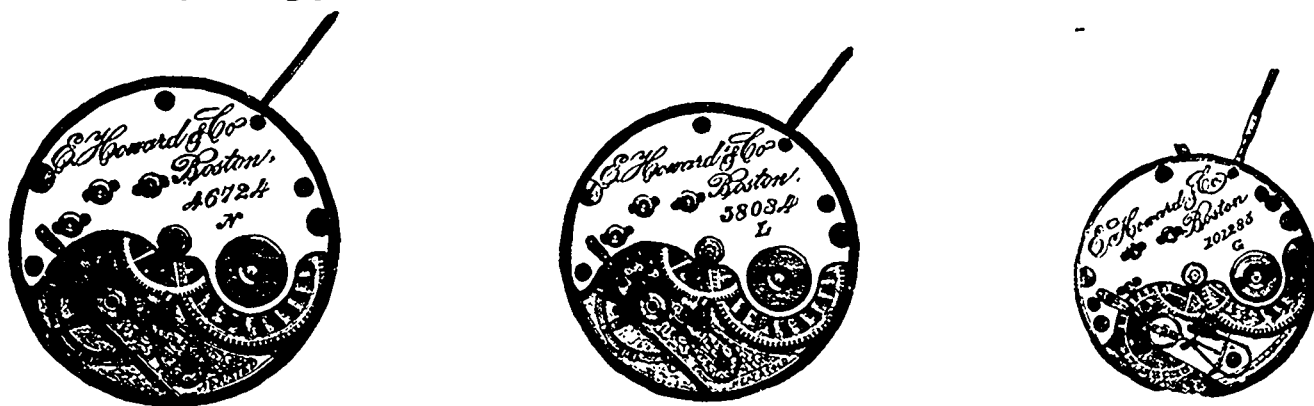
JOBBERS IN ALL KINDS OF

AMERICAN WATCHES

GOLD, GOLD FILLED AND SILVER CASES,



AND SOLE CANADIAN AGENTS FOR THE FAMOUS



HOWARD WATCHES

Buy no more fine Swiss Watches, but use the HOWARD, which will show better time and give you less trouble in regulating and keeping in order.

Our Great Specialty is: AMERICAN ROLLED PLATED JEWELRY

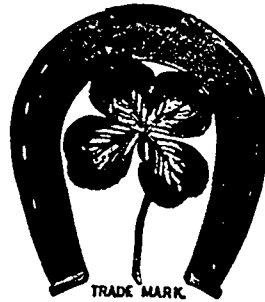
Of which we carry the largest line of any concern in Canada or the United States.

THE AMERICAN LEVER CUFF AND COLLAR BUTTON.

**The Old, Original, Reliable, Faultless
Cuff Fastening.**



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Ask Your Jobber for Them and accept no other.

HAMILTON & HAMILTON, JR.,

Successors to HAMILTONS & HUNT.

Successors to HAMILTONS & HUNT.

ESTABLISHED 1871.

ALL CHAINS STAMPED WITH OUR TRADE-MARK.

QUALITY OF GOODS GUARANTEED.

If desired, will furnish names of Jobbers carrying our line

We also manufacture a complete assortment of BARS, SWIVELS, JUMP-RINGS, SPRING-RINGS, CABLES, EYE-GLASS AND BRACELET CHAINS.

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NEW YORK OFFICE:

No. 176 BROADWAY.

Fine Rolled Gold Plated Chains.

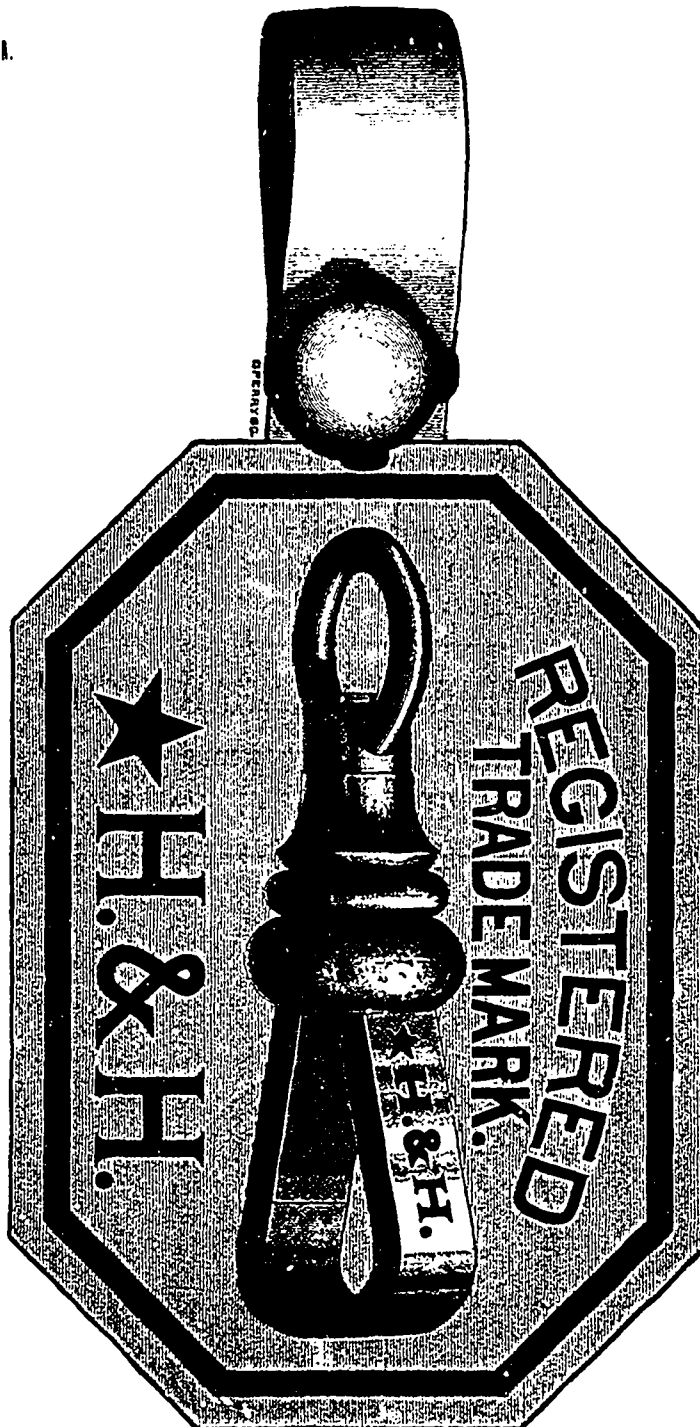
Fine Rolled Gold Plated Chains.

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JAS. BOSS WATCH CASES.

The illustrations here presented indicate the general tenor of the new patterns of engraving for Jas. Boss Cases. The characteristics of the engraving are originality, appropriateness, skill in execution, rich and enduring effects.

KEYSTONE WATCH CASE CO'Y,

NINETEENTH & BROWN STREETS,
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