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## EDitarial.

WATOHMAKERS, ATTENTION.
The letter of "Hamilton Jemeler" in nuuther culumn suggesta to .. the possi. hithy of very much good being done by au iuterchange of ideas amongst Canadian watclmakers.
It certainly seems strange th us that serfelers and practical watchmakers in Hus cuuntry apparently take but litute interest in the new and usoful inventions that are covtinually cropping ap in this lue of business, and that might with great advantage to the trade, Le discussed un such a paper as Tar Trater.
The difference between Canads and the United States in this respect is very marked, and we are sorry to see that the cumparison is not at all favorable to ae.
Take upalmost any one of the many juarnals publishedin the Cnited States in the intarests of whtchmakers and jowelors, and you will find in it ample evidence of the Espre du curps that American Watchmakers have in their profession. Amongst these letter contri. bations from practical men, may be fcund some of the best and sblest articles, contained in the paper, and these arc catitled to all the more roight when it is remerbered that they are principally the result of, in many case, 'ung and varied experience. Waichmaking is a science, and as everyone knows that over bad
anything to do with it, requires lang
years of pationt study in order to master its intrioacies and undurstand thurunghly its prinoiples. Indeel, so diffioult is the thorough mastory of the soience of horology that but forv ever attempt suoh a thing, and those who do aro $n$ kind of rara avis amonget thoir fellow workmon. A thoronghly shillod workman, as everyono knuws, can always command the highest wayes and need nover be out of work; in fact, his services are in constant demand, and be has immoasurable advantages in overy way over any ordinary workman.
Now, while we have many first-class matchmakers in Canada, it is no dispar agement to the trade to say that wo have aloo a great many inferiur workmen who might bo very much improved if they would but take the time and pains to improve themeelves in their trade. If anything were wanting to prove this assertion, the mass of "botched" work that is continually pouring into our oity trade shops would abnadantly confirm it. In no way can such a desirable improvement be carried aut than by an interchange of ideas upon subjects of vital importance to the craft.
Fur osample $r_{r}$ a matohmaker in нome cunntry vilhage finde a difficulty in duing a certain kind of mork, and he bas no older head near by to get advice from, if he wore to clearly state his mant in sume trado juurnal, sume une purlaps that had experienced the same difficulty and overcame it, would enlighten lim. Thuse who had made any aveful discur ery in any branch of the business monla have a medium by which to commanicate it to others, and in this way the general standing of the matchmaking trade might be very mach improved. Nany of our best forkmen are self.taught mechanics, and they, more than any others, will be able to estimato the advantage that a little friendly adrice farnidhed in this way, at the right moment, may do.
Now, watchmakers of Canada, is it nut time that sun were stirring yourselves in the direction of discassiun and impruve ment? Are gua, as a class, less intolligent than your fellow workers un the ,uther side of the lino? if lut, why do yoa allum soarbelice $\omega$ drift along rith the stream when you have such grand yossibiaides before sull? Wake up and prove that gua are hive worknon, and not mechanical Rip ran Wiulles, Those
woro whon they first loarnod the trade.
Ventilato ovory now mattor, and keop abrenst of $\mathrm{t}^{\prime}$ - times, taho it provemonts by the forolook, and don't let thom troad on your heols.
Wo have plenty of intelligont and educated watohmakers, lct us hear from a fer of them on live subjeots, lat those that want information bo not afraid to ask for it, and if they do wo are satisfied that some brother craftsman will be able and willing to give it to thom.
Tu all we muala bay dun't hade jour light under a bushol. If some one aska a question, and you can answer it intelligently, do so by all means and you will do yoursolf no harm, and probably the enquirer a great denl of good.

As we have said bufore, the columns of This Trader are always open for buch purposes as the above, and we shall bo ouly. too glad to help along such a laudable objeot ly every meaus that lies in our power.

Now then fellow craftsmen let us hear from you.

## THE FUTURE OF THE AMERICAN WATCH TRADE.

As everybody in the watch and jowelly trade knows, for the past four years it hase leen aluost an impussilility tu get as many lun priced uurements as the requirements of business demanded. We have often been aoked, why is this, why , caut we get the guods we want for our trade an easily and co cheaply as ne dia formerly?

The reasous, me thinh, are nut far to seek. Frum 1873 till 1873 may onfoly be sand to have beon all years of $d$. pression, and bad yeare for business in general. The period befuch that was unusually frusperoas, and as everyune knurs, une particularly suited to an expabuion in every line of businese.

The watch induatry, like every other, ${ }^{\text {as }}$ gurerned ly circumstancel, in other f words it is regalated by the law of supply and demand, and hao to ebl wand flutr wilh the tide of commercial prosperity. Looh. ting at the subjuction the light of these gel. - osally ackuowledged principles of trade, RC , cannot help being struck with the pre. casion with which the match indastry Las obuged the aps and duwne of mercantile lufe. The have ofton expressed the viem, that as far as any one business can iuda cate the stah of prusperitg ir ang country, the watoh and jervelry trado is cortainly , the must relialle ${ }_{2}$ for that purpose.

Indeod so scouratoly does it register tho advance or declino of tho gonoral pros. pority, that it may bo pretty safely talton as a roliablo morcautilo baromotor.

Watohos and Jowolry are articles of luxary, and whon the country is prosperons, and peoplo goucrally are making monoy, thoy meet with a realy salo; the commorcial baromotor then indicates "fair weather." On the other hand whon times bocome dopressed, money scarce, and peoplo baroly ablo to obtnin the neoossitios of life, theso goods become almost a drng in the mariset and can hardly bo sold at ary prico; tho commercisl baromotor they indicates "bad woathor, look out for squalls.". We do not for a moment wish to be understood as meaning that good and bad times como and go beoause the jowolry and watoh business is prosperous or othor wiso, but aimply that the watch and jewolry business is lively or deprussed because the goucral prospority is in the same condition. In othor words, the saccess or otherwise of this particularly sensitivo business is purely a result of good or bad times as the case may be.

This being so anyouo can see at a glance that in the prosporous decade provions to 1878, trado in this lino was good simply becnuse tho demand was gnod, and tho publio having monoy to spare were of the opinion that thoy could afford these luararies. During the period of depression from 1878 to 1879, the great mass of the population spout all thoy oarnod in obtaining tho necessities of life, and tut for land anything to spare for its luxnries. The demand thus being out off or very much reduced, the natural result of over-production inevitably fol. lowod, and this line of manafactures soou became a drag in the market. But says some one, why did not the watch factories shat down, or limit their prodaction whon the dall tines came on? We answer for the same reason, that it is very hard for a man to stop suddenly when he is going at fall apeed down hill. A watch factory, like any other factory. has to keep its machinery going up to its fall capacity in order to produce paying results, and they would probat?y loso moro by shatting down or cortailing their production than by heeping up thair former outpat, and roduoing their prices to within a fraction of cost. The Fatch companies evidontly looked at it in this light, for we do not remenber of a single factory cither shatting down or
trying to limit their output. Tho rosult was however strictly in accord with tho woll recognizod law of supply and domand; in spito of oxtra iuducomonts in tho shapo of groatly reducod pricos and bettor torms, in spite of the fuot that tho roduction of the Amoricau watchos sonsilly diminished tho mportation of Swiss goods (thus in somo moasuro making up for tho restristed consumption by giving thom the almost unopposed control of a formorly divided market), the consumption culld not bo forced up to tho lovol of production, and as a consequence, the oud of tho doprossed period found thom holding heavier stocks of manufactured goods than at any formor poriod of their history.
With the advent of good timega came another change, and one for the better. The purchasing power of the nation became so much inoreased by the general prosperity, that the demand for watches not only rose to a level with the produc. tion, but soou left it far behiad. The result has been, that although the watch factories have tried to keep paco with the domand in two ways, (1) by raisiug their prices, and (2) by incroasing their oapacity, they have besa utterly unable to do so, and to day somo of them have on thoir books orders sufficient to teep them running at their full capacity for twelve months to come. This, too, in spite of the fact that as soon as Anerioan makers advanced thoir prices, Swiss goods again began to bo imported in large quantities. Tuo prosegrity of this conantry for the past five years has beon something wonderful, and it is littlo to be wondered at, if whon the watch mannfaotarers lad the ball at their feet, they not only tried but have fully sucooeded in recouping themselves for their losses or rather want of profit during the pro. ceding period of dopression.
This we thint is why the wateh com. panies are neither able nor willing to supply the lower grades of goods wanted by the trado gonerally, nor willing to offer to them tise conoessions in prices and terms they formerly onjoyed.
"Every dog has his day" is a homely proverb but a true one; it was the merohants chance during the period of depression, it is the manufacturers now, and who can wonder or blame them if thay take advantage of it. When one man has an artiole that he wants bsdly to dispose of to another persod who is onfrilling to buy, the indncements and
concessions aro genorally on the side of tho sellor; but when the case is rovorsed and the sollor is the indifforont party, then the concessions mast come from the sido of the buyor, and he mast not considor himsolf aggriovod if ho fails to got tho favors he formorly obtained when the sollor was in ombarrassed oiroum. stances and could not help himsolf. In short the wholo mattor domes back as we Lave proviously assorted, to tho law of supply and domand.
And now ask many of our readers, what about the future, will watches always remain as scarce and as dear as at present? Boaring in mind the effect of this unalterablo law, wo unhesitatiagly answer, no. Just as soon as-hard times come again, or the outpat surpasses tho consumption, just so soon will prices drop down to or bolow thair lowest former figures. Aiready the indications of hard times are apparont by the greater number of failures, both in Canada nad the United States, and the reduced volums of trade in both these conntries, and the result has at this carly stage made itself felt upon tho watch business. That tho slight falling off of trade that has been folt by the retail trade has affected the manufacturors is ovidencod by the fact that one factory that one year ago (the height of our prosperous era) was said to have orders enough on hand to last it for three years, is now said to have gained two years on its orders, and that it could now catuh up in twelve months. Were dull times to come on we fanoy even the half of this would either level up their orders or else ruin most of the wholesale hoases on m they wonld unload their ansaleable stock.
Watch manufaoturers are at present apparently whistling to keep their cournge ap; if we may judge by the elaborate compatations they make public at stated poriods, and all pretty much in the same view, viz., proving by figures that the popalation of this country is inoreasing so rapidly that if every factory in the United States were to double its capacity, they could not possibly keep pace with the demand. These fancy theorios are all first-class as long as times are good and sales brisk, but jast as soon as depression again lays its blighting hand on the indastries of the conatry and cripples its purohasing power, these gentlemen will find their very plausable thoories blown to the rinde.

Another factor, we think, in this ques.


For Sale by all Jobbers.
tion is the advance of Swiss compotition in this country. Switzorland, tho land of natuml born watah makers and ohoap labor, has no intontion of allowing horsolf to bo driven from tho markets of this continont without knowing the renson why. Although for a timo sho has been out-distanced by the improvoments in Amorican watoh making machinery, sho will suroly overcomo this disadvantago by adopting tho samo helps to manufaoture. Whon thoy do then it will bo " Grools meeting Grools," and although noithor may bo forced to go to the wall, the rosult of the competition will bo a largo inorease in the supply and a consoquent reduction of prices all along theline.

Wo do not know that a reduction in the price of watches wonld add anything to the prospority of the rotail trade, as wo havo shown, such a reduction is gonerally the resull of hard times when goods are oheap because thoy cannot be easily disposod of. On the whole we think wo would profer, aud it would bo bettor for the trade, to lunve the good times oontinuo, for they could thon sell the goods thoy bought at a far profit oven supposing they had to pay a slightly advanced prico for thum.

## Correspondertce.

## "A GOOD SUGGESTION."

Eiliur I'raler:
Su, -In looking over your valuable journal, which I think, without flattory, is certainly most creditable to Canadian enterprise, I have often been strudi by the fact that the jowelry trade, for whom it is principally intended, do not take moro intorest in it. It seeme to me that we have in The Thader a medium for tho intorchango of ideas bearing on our businoss that we should not fail to tako advantago of, and that if the editor of Tue Thader would allow us a cortain amount of space in the colamne of his paper, it might dovolop a good deal of latont talont among our jewolers that thoy nover before suspooted.
I seo no reabon why we in Canada should not bo fully abreast of our crafts. mon in the States and Englinud in this partionlar, and we ull knowr that jowelers in both these countries not only write for their journals, but write well on nearly overy subjeat conneoted with the trade. I would liko to know, Mr. Editor, whit yon think of this idea, nud if practicable,
would you give us the small amount of space we could use regularly? Trusting to got a favorablo answer from you, and that tho trado in Oanada, gonerally, will fall in whth this idoa of mutual improvemont by intorolange of ideas.

I beg to romain, yours truly,
" Hamilton Jewzler."

## Fillectrd fatatter.

## THE DIAMOND DRUMMER.

Tho diamond drummor, acoording to a recont writer, is a real genius. Ho is said to bo less onoumbored by baggago than any of the drummer fraternity. Every ounce that he oarries is worth a good deal moro than its woight in gold. He is the aristoorat of tho drummers. A sharp and oxporienced member of this profession is quite sure to be a partner in the house he travels for, or to receive a haudsome salary and expenses, and a liberal commission on his trausactions. I'ho best dinmond drummer does not espect to rely on regular customors for his trade. He is a sort of guerrilla, who instinctivoly kuows where to find the best purchasers for his goods, whioh presupposes an accurate knowledge of the business and its possibilitios in all parts of the country. He mast be a thorough oxpert in geme, having a full knowledge of their production, the fields where they aro found, thair cost, color, slape and lustro, and be able to detect the slightest variation in the shade of precious stones. A rave diamond which he has once seen to will nover forget, no matter what chauge may have been made in its setting. Ho can tell hy its cutting whether the work wes doue by an American or a Earopean lapidary, and some experts can even recognize the cutting of special artists, in the forms and fashions which distinguish the work.
But the diamond export is also proficient in the fashions and styles of jewelry. He must know the most appropriate settings for all precious stowes, for these add greatly to the saleable value, eapecinlly of the diamond. The diamond settor should bo an artist of great tasto and powers of discrimination. Au ordinary jewoler is apt to destroy the beanty of the stone by olumsy workmanship, or to hide its bnllianoy by an attempt to display his own okill. The real artist who snows and loves tho diamond for its rare brilliancy and purity, will surround it with gach delicato yet laxurions mater-
inls and oolors as shall onlanico ths porfoction and beauty. By virtuo of such knowlodge ns thic tho diamond drummor is ofton onabled to buy a rare stone, which appears absolutely ugly in tho sotting that some bhakamith has given it, but whioh in another garb shinos out resplondently, challenging tho admim. tion of the world. In regard to prices of all kinds of goms ho is nover at a loss. He doos not nood to place a diamond on the soales to detormino its weight; a single glnneo at $1 t$ will establish its quality and value.
The diamond drummer's chiof oustom. ers aro jervelers and the diamond dealers out of town. Nort York is the centre of the American diamond trade, but there are several dealers in Chicago who make a speoialty of this business, and severa: experts are omployed here. Somo diamonds are imported direct to Chicago, the wearors of diamonds being on tho inorease here. A considerablo number of Clicago ladios lave very valuable sets of dinmond jevelery, in whioh they have invested not alone for display and dicss purposes, but for the safety of their properly. It is a prevalont iden that diamonds will always bring therr value in oash; and this is true to a certain extent, though subject to trode modifications. " Nine uncle," for instance, while oharging interest on money ho will loan on a thousaud dollar sot at five or six per cent. a month, will value the property at not more than $\$ 500$, and it is sometimes diffionlt to find purchasers for expensive stones. The drummor, who actually knows the market, is the useful middle. man in such transactions. From the local dealer he receives orders for special gets of single ornaments whioh they have been commissioned to procure. This special order business is a verg important feature of the trade. It often takes months to fill one satiefactorily, and one drummer spent two years in getting a matol for a solitaire ear-ring for a lady who had lost one of hers, obtaining in the end what he had every reason to believe was the identical diamond she had been bereft of. Most drammers carry a little saok with all the way from $\$ 10,000$ to $\$ 50,000$ worth of unset stones in it, for the purpose of matching lost ones and furnishing sets to satisfy the caprice of nltra partioular buyers.

The sales to jewelers are generally of mounted goms of the nowest fashions. Commonly the jeweler buys these for

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samplos, and has thom oopied by his own workmen, with his orn matoriale. As the enmple sots art of the most oxponsivo ordor, this bmnoh of the trade is a very profitablo ono, in spite of the limits set to its proportions. Bat privato buyors frequontly doal with tho diamond drum. mor, too. Woll known drummors, on arriving at a place whore they propose opomting, genornlly got a porsonal in tho local papers, stating that so and so, the woll known and popular diamond dealor, cto., is in town, at such and such a hotol, and privato custom soon finds him out. Thoro is in Ballimoro an old man, who prosonts the appenance of a voritable vagrant, who is a regular bayor of diamonds for inpostmont. Ho is a heavy spoculator in grain, and tarns overy dollar ho wius into diamonds. Where ho hides them no ono knows, but several attompts to rob him have failod to discovor thoir whorenbonts. Ho is popularly ropated to bury them, bat whore thoir gravo is will probably romain a mystery till he goes to his own, if, indeed, it is discovorod then.

Apropos of robbory, that of a diamond drummer is vory rare, though it doos occur now and then. Ho travels henvily though not obtrusively armed, does not go to bed in his hotel with the door unIntohed, and nover canios his slook with lim in strango places at night. By obsorving such simple, common-sense rules of precaution, ho preserves himself from most of the perils that menace a man known to be travelling with a store of wealth about him, and genorally lives to a gond and opulan ${ }^{+}$old ago. When he is robbed his loss is generally irredeem. ablo, for ovon tho cloverest diamond drnmmer could not swear to his own jowels with the sottings removed or a facet or tro recat. Ho would rocognize them to his own eatisfaction, bat it would require a jury of diamond experts to conviot a thief ou the slonder cridence ho could adduce.-Exchange.

## ROMANOE OF OLD GOLD.

There has almays been more or less roveronco attnched to old and venerablo specimens of wrought gold, and poots nud novelists have dealt lovingly with tho thome. As a mattor of fact, howcvor, from a businoss standpoint, old samples of wrought gold are usually worth just what their value is after emerging from the melting pot. But
associations and ploasant momorios havo with many a value that monos oannot bay, and in tho lands of this class of porsons, old snmples of wrought gold, that havo beon hoirlooms in familios for ages, besomo incstimable treaburos. There is, howovor, much oxaggoration rolativo to gold wortors that the publio londs a ready oar to. For iustance wo have hoard tho story frequently repoated that an ontorprising man once gathered the dirt in Joln Streot, inoluding the swoopings from many jowelers shops, and on assaging the dirt, recovored over $\$ 10,090$ worth of old gold waste. The oraft mast indeed bo wealthy whon it can throw such a bonanza into the street. Of course the story is absurd, but there are many suoh in oxistonce to which a oredulons car is lent. A roporiter of a daily papor recently pablished the result of hisinvestigations apon the subject of ald gold, and below we givo the substanco of what he says on the subject :
Passing through John street, the othor day, a glare of a brilliant light blazed blindingly in the reportaz's oyes. It was the reflection of the rays of the noonday sun from nn eccontric mass of whito motal in the dirty little nindow in a dirty littlo shop which was sandwiched between two of the handsome silversmiths stores, like some akalking tramp boing taken care of by a brace of stal. wart guardians of the peace. How the solar slaft over pierced the grimed panes with sufficient powor to creato such a responsive radiance is a mystery. It was as much as the reporter could do to make out that the white metal was a mass of crucibic silvor, of the most fantastio and charming filagree stracture, its surface frotted like the frosting on a winter morning windor in designs which might have been made in fairy-land. In trays and heaps all around it was a confused mass of the most hetrogeneons artioles of ornaments and atility, or rathor of bygone orna. monts, whatever their present atility might be, of both antique and modern pattorn, but all of one of the tivo precious motals, and all run to one common charactor of seed. There were long clnins festooned all about and coil. ing in heaps like sleeping serpents, battored bracolots and rings varying in stylo from the plain wedding circlet to the aristooratic seal strung liko dried apples on long wires. A goldon sword hilt and a gold ambesqned scabbard,
eoveral daggors with tarnished silvor grips, ornamontal scrolls wronohed from gun stocks and rovolvor butts with tho rivets atill stioking in thom, brooches without piny, oarrings without hooks, watch cases, old coins, modals and badgos of overy desoription. A couplo of orucibles wore crammed with sottings from which the jervels had boon torn, and thero was a bashol or so of tho same spoilod jowolera' work in two battered blaok ailver pitohera, whose dintod bat portly corporosities bore on ongraved crest with a gracoful motio. gram and tho date of 1742. Thoso hoirlooms como to a common level with thair frivolous companions, and waiting, like thom, for the melting-pot, had tho air of dignity about them of two gentlomen of the old sohool, dropped by misfortune among the proletarian paupors of an almshouso. The flaunting sign in the window, "Old gold and silver bought at the best pricos," seemed a wanton insult to them, a fling at their hapless detoriorated ago.
The shop inside was, if that is pos. siblo, more in want of a parification than tho exterior. In its gloomiest corner a red-aged farnace glowed through a vail of blue oharcoal smoke. The ceiling was black and festooned with cobwebs, which made hammocks for the soot and dust to repose in. The walls were black-a emeary, unwholesome black, like the comploxion of one of those toilers in a Siborian Lead mine who have forgotten the light of day. There were some carde and price lists gummed to them, but their inscriptions had long since been smudged into illegibility. Over a board connter a bent old man was testing some chains and bracelete with acid, while their vendor stood by and arwaited the decision of the dumb detective as to tho worthiness of his stock. A filorid gentleman was tambling over the clisotic contents of a boxfull of seals, monograms and the like, which had been deprived of their settings. "It's no use," he observed ; "it isu't here, that's cortain. I must try another placo."
"He has been here ovory day for a month now," explained the man behind the counter. "His house was robbed lately, and among the articles stolen tras a seal ring which had belonged to his family for annumbered generations. He had hoped that he might come across it here, but I guess his chance is a elim


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## ROBBINS \& APPLET0N,

ono. If it is worth anything it has long sinco been sout across tho wator."
"How do you monn?"
"Simply that tho thioves, or ratioer the decoivers with whom thoy denl, nover try to do auything with that sori of proporty here ; eenle, integlios, camoos .nnd tho liko, which possoss nny intrinsio value, aro packed off to Europe at onco and resot thore, whilo thoir old sottings aro molted down. In tho same way thoso stolon abroad find thoir way to this markot. We got a great many valuables of that sort, of courso in the logitimato way of trado. Thoy aro brought hero by poople who are hard up, or who do not appreciato thom. Wn makono allowanco for thom. It is tho sottings wo are aftor, and we pay for its weight and fineness. The stones go into a hoap, and anybody who wauts can buy thom. Wo have regular oustomers in that lino-colleotors and denlors-who, from timo to time, reliove us of our stock. Of conise we don't give the stones away, and when by a raro accidont, we get any of oxcoptional valuo, we get cur own prico for it, too. But it is not our regular lino, and with the goneral run we don't laggle over the price, unless we have plenty of tame to Waste."
" Do you tako any precautions against being made the purchnser of stolen proporty?"

- The ordinary one of common sense. It isn't a very diffoult thing to distinguish between an honest soller, who has a right to dispose of what ho sells, and the other sort. Besides, the thieves don $t$ got a chance to patromze us. They are generally so outangled wath fonces that the latter got whatover is worth gotting, at their own pricos, and thoy do thoir own meltmg. The mass of sottinge thore, for instance, comes from various jovelers, who havo purchased them for the atonos and sold the motal to us. Tho big jowelers cither do their own smolting and kuining or send it outside to places libe thes to be done. If, howover, a customor does not turn up whom I think likely to bo the off color varioty. I simply declino to deal with bim. I suppose I havo bought stolen property at one time or another. I don't sec how anyoue in this business can very woll help it. But ignorance is my best tith to innocence, and I guess I won't suffer very soriously for it."
Here, a littlo faded woman in widow's
woeds camo in. sho had a littlo paoknge undor hor decont dolman, and in a littlo, quivery voico, oxplainod that sho dosired to find a market for it. It was a silvor baptiamal mug, of an old, old atylo, and bore the inscription, worn by zealous polishing, "To Bolla, from Hor Godmothor, Arabolln Matolam, London, 1887." Tho littlo womnn started as if some ono had atabbed hor whon the mug foll rattliug among a hoap of silverwaro tossod from tho scalo by a caroless hand. But sho gathered ap the fow bank notes with eager fingors, and pulled hor vail closer about her face as she went out.
" Somo poople," the doaler explained, "are as shamefacod about coming here as they would be on a first visit to a pawn shop. And the queerest part of it is that they have all genorally boon to tho pawn shop first. Paryubrokors won't adrance nnything like its value on suoh staff as this any more than they will on anything olse. If the owners only need monog tomporarily, they take what they oan get. But if thoy are so hopolessly hard up that thoy are constrained to part with thoir collaterals for good, they gencrally find their way to some place where they can get more like their value. Wo don't pay for workman. ship, as I neeln't toll you, and that's the biggest part of the jeweler's bill. But we pay lhonestly for the metal, and as mach as we can afford. 'ihere's consiagrable competition in the business now, and the profits are much less than they wore whe I commenced to smelt.
Tho prices paid for old gold vary, of course, according to the quality of the metal. Eight karat gold brings from about thirly to thirty-two cents per pennyweight, twelve karat from forty to forty-eight, fourteen karat from fifty to filty-five, sixteen larat from sixty to sixty-five, and eighteen from seventy to soventy-five. There is very little twelve karat gold in the market. In such low grade gold ranks as eight karat or less, the price paid depends greatly on the character of the alloy and the difficulty of extracting it in refining. If it is excoptionally difficult to separate the silver and copper, the price is merely nominal. Apropos of this fact, it is worth noting that muoh seocud-hand jowelry is offered for sale, dating from the first houses of the country, and of a very low grade of metal, indrad almost on a par with cheap
factory work. To sum up in simple
about ton por cont. less than its intrinsic value, that sum constituting the smolter's profitless expensos.
Tho gold, whon it is rofined, is run into bars and oithor sold to manufaotur. ing jowelers or inurnod over to the Sub. Treasury as bullion. Vory little of it goes that way, though. The ornamoutal uses to which it oan be put olnim its full service as a rulo. The ohief source of supply of the smoltors is tho jervoling fratervity. They not only have largo quantities to dispose of through resetting, but most of them trade newfaghioned trinkets for such as aro out of date, the lattor being ratod by weight, and they find their way to the smeiter in due course.
Old gold, of course, isn't bought like anotion bargains or junk, on the chauce of its being worth the purolanse. Tho tests it is subjected to detormino its value are extremely infleresting. The ohief factors in it are the test stone and tost keg. The former is a whetstoue, which one finds on every smelter's counter. The lattor is a contrivance on the plan of an old-fashioned fan toothpiok, only, instead of being of ivory it is brass. The varions points or picks are nambered $8,12,14,16,18$ and 20 , nad the figures designate the quality of the gold with which they are tipped. When you bring a ring in for sale, say, it is rabbed on the whetstone, to which a few atoms of the precious metal adhere. Then the key, pointed with gold of the fineness at which your ring is estimated or stamped, is used to make its auriferous mark beside it. A drop of muriatic acid and then of sulphuric acid, used seriatim, brings out the color of the two marks, and verifies the finenoss of the one according to the staudard of the test key. When very clicick rings or heavy jewelry are offered, the dealers will not ventare on a parohase unless they aro pernitted to ont thom and ascertain what they are mado of inside.
The most perfect method bnown for testing coins, it may be interesting to statahera, though it has no partionlar bearing on the subject, is that in ase in the Bant of England. The bank rever oirculates a coin that is a thistle.down's reight under the standerd. The sovereigns, as they come to the test are hoaped up on a big table, whence they are swopt into tubes which are part of a sort of a delerium tremens of machinery operated by a little steam engine. The rolla


## The"Excelsior" Patent Dust Proof Case.



This is the first and only case made without one grain of solder. Every piece is cut fr col thesolid metal and pressed into the shape used in the case. This process hardens the gold and silver by the on:y method known (that is to work it), and is handed to the Trade as hard as is possible to make it, being a great advantage over a case made in the ordinary way, in saving guld and silver by making a case as strong as a much heavier one that has been softened as heat does in soldering on pendant, joints, thumb catches, or joint to swing movement in. Heat not unly softens the gold or silver, but warps it out of the shape that the snaps have been fitted to, and it is never perfect after soldering. The Excelsior Patent Dust Proof is never soldered, never heated, is fitted perfectly, and remains perfect. The Excelsior Dust Proof has no joints to wear out or break off. The Excelsior Patent Dust Proof has no spring to break or wear the case. There is no part of the Excelsior Patent Dust Proof that will wear. The Excelsior Patent Dust Proof is the safest case made for protecting the movement-it will never open in the pocket Put an Excelsior Dust Proof in your pocket, bend forward, backward, put yourself in any position you please and the Excelsior is closed tight. In an ordinary case, with springs, by bending forward the case will often open and when the lock-spring is worn, the case is nearly always open.

The Excelsior Patent Dust Proof Case is the strongest, best fitting and most durable case made. Ask your Jobber for the Excelsior Patent Dust Proof. Every case warranted as stamped, 18 kt ., 14 kt ., 12 kt ., 10 kt ., United States Mint Assay or Coin Silver, as may be stamped, and every genuine case bears the Trade Mark. The Excelsior Patent Dust Proof Case may be obtained from any of the jobbing houses in the country.


## Instructions to Open the Excelsior Patent Dust Proof Case.

First press the crown as in opening an ordinary Hunting Cased Watch, then to open front, turn bow to the right with thumb and finger; to open the back, turn left. To close, turn case back in same position as when case was closed, and snap same as glass bezel on any watch.
of sovereigns pass slowls down those tubes, which traverse tho table at a desconding grado of thirty dogreos, and if they are full weight the coins drop one by one into a box on the floor. But whenover a light piece reaches the lower end .f the fablo a litlle brass plato pops out of some hidder. corner and pushes the dofaultor into a compariment of tho box whors ho can't contaminate his honest follows. Not one is allowed to pass. Tho sovercigns are then dumped into a sort of barrel orgau wit, steol blades for pipes, Whence $\frac{1}{}$ turn of $\Omega$ cmnk drops them out, ont in half and ready for rominting.

In nudition to the smelters who suspend thoir shingles in Maiden Lanéand John Strect, and in that block of Chambers Streot between Chatham and Centro, there are poripatetic speonlators in old goll, argonauts of the trade who travel all over tho conntry gathoring in stock whorever thoy can find it, and bringing it to Now York to dispose of at sufficient profit to mako their wanderings pay. These middlemen often piok up some warvelons curiositios in their partionlar line; historio heirlooms that have spent long gencrations in country capboards, aud the plate chest of provinoinl families. But whatover their associstions may be, tho red-oged furnace dovours them all, and their death inconco makes the smelter think hard words ns ho stirs his pot in the mophitic fumes of a charcoal fire.

The ollest smelting basiness here is said to be that of G. W. Platt. John Watera' sons coutinno a basiness their finther founded long before they were born. The Lougman establishment is also an old and prominent ono. The hend of this firm is roputed the greatest oxpert in metals on the Western conti. uent His cognizauco of his prufession is called onlossal. His assays in the most delicato ant inportant cases are accepted as final. A reforence of a disputod point in praoical melallargy to him is under. stove to menn its definito setllement, pro or con., and no ono demurs at his decis. ion. O.to insinnce of his fundamintal thoroughuess in tho business is addnced in the fact that ho can delect, with rare excoptions, where any article of jewelry Which comes undor his hands has been made, lis knowleige oxtending not ouly to the characteristic national styles, but oven to tho pecnliarits of individual workmanslip. The gold brick mhich mas donated by Californin to the Irisla

Famine Fund was sent to him for assey. Ho mad his roport, accompanied by a reosipted bill. Some of his aseays are said to bo marvels of the triumples of an anylitical brain, and a praoticed intelli genoe over what had been regarded as Gordian buots in the metallurgical annnals. Thero aro numerons famous "crooked" smeltors here, men whem only the thief can reach, who havo garnered fortune from their pots of "brown sou a," ns thoir patrons familiarly christen thom. One of them, a little weasened Hebrew, who has for jeam been a tantalizing mystery to the police, is a regular speculator on Wall. street, where he spends his off hours in comyany with his daughtor. The ynir are as familiar to that portion of down town as the Stook Exchange itself. The infatuation of the old man is akin to tinat of a gambler Who, after fleceing a victim, goes offto be fleeced himself at his own game. Tvery dollar he makes in one way heloosesiuthe o:her, and if theft should become a lost art he would inevitably become a client of the almshouse."

## HOW EB OEGANED TEBR.

SUccegspul feat of a dianond syugaler.
A woll-knorn diamond smuggler whom the Now York Castom Houso detectives have in vain tried to seize, not long since sailed from Antwerp on the Rhymland. A Hamburg detective camo over with him to watch him the whole voyage. This olever smuggler prore a thick, black beand ind whiskers, and it was suspocter that le carried his preoions froight conccaled in them. Ous moruing not long ago the Now York authorities recoived a despatch from the Enmburg agent, which read:-'R. has shaved his beard. Did not know it till he had sailed five days. Ho is on the Mrynlancl. He has got 70 lurge diamonds concealed on his person." As soon as the Nhynland was sighted, six Custom Hnase officers stoamed down and intercepted hor. They looked for the now benrdless man. Just as they ware about to give up the srarch a stranger asked, "Ion are Custom Honse officers and you look for Rosenbarg with the diamonds?" "We are and me do." "That is Rnsenberg, and the diamonds are served in the lining of his nochtio." In another minute a pele, smooth-fnoed, sallow man was straggling in their liands. His scarf was taken from his neck and aarefully explored with a sharp
penknife. Twenty diamoint of various sizes wore found. His trunk was noxt rammaged, evory neoktio searchod, and sovioning-three diatmonds of grent lustro discovered. The fellow wopt and wrung his hands. When the Oustom House officers arrived at headguarters tho chief, who held a cablegram in his band, eagerly onquired, "Did jou get Rosed. berg ?" "Yes, sir." "Where wero the stones?" "Sewed in the linings of his neckties." "That's rather strange," remarked the chiof. "Here's a Han. burg despatch which says, 'Just lenrned that $R$. carried the diamonds between his back and a porons plaster.'" "Here are the diamonds, anyhow," said tho leader of the raid, "ard wo found em in the lining of bis neckties." The ohief looked at the gems, and said :"Send the jowiel expert here." He came, exsmined the dismonds, shrugged his shoulders, and said:--"Paste, but first-class." Tbree frantio officers spent the aflernoon tracing Mr. Rosen. berg. They discovered him at tho Melropolitan Hotel, ond without a word of ceremony burst into his apariment. "What do jou want ?" he onquired with apprehension. They threr him on his face and mate frantic explorations of his back. Ho lad taben his bath and the placter had vanished, but where it had been, mixed np with tha impression of the plaster, were the imprints of seventy largo diamonds.

Tar largest library is tho Bibliothique National, in Paris, founded by Louis XIV. It contains $1,400,000$ volumes, 300,000 pamplilets, 175,000 mannscripts, 300,000 maps and clarts, and 150,000 coins and medals. The collection of engravings exceeds $1,300,000$, contained in some 10,000 volames. The poetraits number abont 100,000. The builàng which contains these treasures is situated on the Rue Richelion. Its leugth is 540 foet, its breadth 130 foct.

The most romarkinble whirlpool is the maclstrom, off the northwesl coast of Normay and southrest of Moskencesol, the most soatherly of the Lofoden Isles. It was once supposed to be unfathomable, but the depth has been shown not to excead tirenty fathoms. The phirlpool is navigable under ordinary circumstances; but whon the wind is northwest it often attains great fary and becomes extromely dangerous. Under

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stroug galos the muolstrom has boon shown by oflicial statistics to run at tho rate of twenty-six miles an hour.

Among the most romarkable natural eohoes are that of Eaglo's Nest, on the banks of Killarney, in Iroland, whioh repoats a bugle oall untilit seems to be sounded from a hundred instruments, and that on the banks of the Naha, botween Bingen and Coblentz, which repeats a soand serenteon tumes. The most remarbable artificial echo known is that of tho Castle of Simonotta, about tro miles from Milan. It is occasioned by the oxistonce of two parallel walls of considerabln length. It repoats tho report of a pistol sixty times.

## BUEINESS OEANGES FOR JULY.

W. H. Cooper, Emerson, Man., Hardware Ac., stock sold at 45 C . on the dollar to W . Beach. Potts \& Co., Wardsville, Tins \&c.. burned out. D. H. Cunningham, Plattsville, watches, moved to Hothucll. Geo. B. Meadows, Barrie, stoves אec., assigned in trast. - Roberts, Reg!na, jewelry, store burglarzzed. J. \& J. Pennington, Winmipeg, tinware, \&c., left for parts unknown and stock sold by sherif. Charles Paille, St. Jean Bapuste, jeweler, moved to St. Johris. N. Germain \& Co, Winnipeg, bardware, offering compromise. L. Jacobson, Winnipeg, jewelry. giving up business. L. H. Noel, Montreal, jeweler, called mecting of creditors. R. J. Butler, Wianupeg, jeweiry, \&ic., shernfi in posicssion.

## BUSINESS NOTES.

Counterfeit \$io notes of the Untano Bank are in circulation in Winnipeg.
Tue good people of Lindsay have experienced a dew sensation: a fow days ago many of the large stores and all the principal streets were lightod with gas for the first time.

The Western Assurance Compiny declares a dividend for the current half year at the rate of twelve per cent. per annum, and the British America one at ten per cent. per annum.

Tar old Toronto Mechanics Institute, the year before it is handed over to the Free Library board roceived in reat 8593 in excess of the amount required to pay interest on its mortgage It would seem, therefore that it was well sorth accepting as a gift. Mir. Bain was chosen librarian, and Mr. Dary assistant.

A marting of the croditors of H. G. Levetus, wholesale jeweler, Montreai, was held last Tuesday, when the statement showed liabilities of about $\$ 3.500$, with 2 ssets of $\$ 35.000$ nominal. 1). Mr Levetus made anoffer of 173 cents cash. or 25 cents in 6,12 , and 18 months, but neither proposition was accepted, and the cstate will likely bo uound up. This man claimed a surplus of 830,000 not many moaths ago.

We notice that the co-partnership that has existed for some years under tho firm of. Hagstoz \& Thorpe. of Philadolphia, has been dissolved by .e withdrawal of Mr. Hagstoz, and a new co partnership has been formed with Mr. C. N. Thorpe, as gener-l partner, Geo. W. Childs, special partner, while Messrs. .E. C. Chappatte and H. L. Roberts have been admitted to an interest in the business. We wish the new firm every success.

Attempted Burglary:-A party of burglars made a determined to burglarize the premises of Messrs E \& A Gunther, corner of Jordan and Melinda streets, Toronto, last month, as well as their neighbor, Mrr. Carter, 12 jordan strcet They entered the premises of the latter by prying away the bars of a window. Gaining the roof they proceeded to enter the adjouning warehouse by sawing open a square hole in the roof. They, however, did not cnter, being deterred by fear or some other cogent reason. Several burglar's tools were found on the premises.
Tur Troy pound, still used in this country for weighing the precious metals, is beheved to have been deprived from the Roman weight of 5759.2 grains, the one handred and twentyfifth part of the large-Alexandnan talent. this weight. like the Troy pound, baving been divided by the Romans into 12 ounces. The earliest statute of this kingdom in which the Troy weight is named is the 2 Henry V., statute 21 char. 4, but the Troy weight is universally allowed to have been in gencral use from the time of Kity Edward I. The most ancient system of weights in the Kingdom or England was the Möncyer's pound, or the money pound of the Anglo-Saxons, which was continued in use for some centuries after the Conquest, being then known as the "Tower pound," or sometimes the Goldsmith's pound. It contained 12 ounces of 450 grains each, or 5,400 grains, and this weight of silver was a pound sterling. The Tower pound was abolished in 1527 by a statute of Heary VIII., which first established Troy weight as the only legal weight for gold and silver, and from that time to the present our system of coinage has been based on the Troy weight, the Troy pound containing 5,760 grains -Nafure.

## WORESHOP NOTEX.

To Brianc: Gord.-II you dasire to refino gold from tho basar metals, sredige or roll it out pery thin, then oat into narrow strips and carl up 80 as to present its lying fatly. Drop the pieces thus preparod into a rassal contsining good nitric acid, in the proportion of acid, 2 oanoes, and puro rain rrater, ornoce Suffor to romain until tharoaghly dissoired, which will be tho case in from one-balt to ono ${ }^{\circ}$ hour. Than pour of tho liquid carcialls, and you will fand tho gold in tho form of yallow powder, lying at the bottom of the rosech. Wash it with paro water antil it ocerys to have an acid taste, aftor which you may melt and cast into any form you abcoso. Gold trated in this manecr may bo roliad on as parfoctly paro.
 for clcening pratcbos are rapidly coming into cas-
tom. They aro to bo obtaiued at any of the material dealors and at all drag stores. The objoct is immorsed and loft in thom for a fum minatos, to permit all allhering mattor to dissolvo, not too long, bowever, since several quallities are npt to leave stains. Tho pioce is to be driod on romoral, aud finish by passing a fine brall over that has been charged with ahalk and aubsequently rabbod on a chard orust of bone. This will padace a brilliant surtace on other gilding or brass. Tho following composition, the ingredionts of which may bo obtainod in a drug store, has buen highly recommended 00 weight parls of refined potroleam and 25 parts of sulphurio ether The objoct is immersed for several minutes, in: fact, thoy may. romain for a longer period without danger, and on remoral from the bath, aro found to be olean and bright. It must not be forgotion that many of these essences aro liable to iznite with the mere proximity of a lightod lamp.
Tests for Dianonds.-Hydrofluoric acid will not affect the diamond, while it quackly corrodes glass, which is the material of most of the imitation gems. The only objection to its use is that it will attack certain siones of minor but real value, like the topaz, which are some times passed off as diamonds. Of course, being a danger us agent to experiment with,it must be employed with great caution. The following directions may be safely followed: Take a leaden vessel, of saucer shape and moderate size, in which place pulverized fluor spar, which sover with enough oil of vitriol to completely moisten the powder Then put in the stone to be tested, and gently warm the mixture over a gas larop-or any. other convenient source of beat. This should be done in a good'draught. where the vapors will be drawn up a chimnes or dissipated. as they are dangerous to breathe. When the evolution of vapors appears to have ceased, which will occur in from five to fifteen minutes, according to the quantity of malerial employed, the heat should be withdrawn and the vessel allowed to cool. The stone may now be fished out from the pasty mejs and examined If it shows no sign of being attacked, you may be assured that it is a genuine diamond. A paste stone will be foand to be strongly corroded by the axid that has come in contact with it, and if it was a small one it will probably have been eatirely dissolved.

Separating Silver.-The following simple method of separating silver out of alloys may be useful. It is described by Herr Gottheim: The silver-holding allos or metals are dis. solved in the least possible quantity of crude nitric acid. The solution is mixed with a strong cacess of ammonia and filtered into a bigh cylinder, provided with a stopper. A bright strip of copper, long enough to project beyond the liquid, is next introduced, which quickl, canses separation of pure metallic silver. The redaction is completed in a short time, and the rednced silver washed first with some ammoniacal solation and then with distillod water. The more ammoniacal and concentrated the solution, the more rapid the redaction. The strip of copper should not be too thin, as it is considcrably attacked, and any little particles which might separate from 2 thin sheet would contaminate the silver. The operation is so

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 GDAEANTER TO THE PUBLIC TEAT OUR WAEBS ARE TEEE BEGT IN TIEX THOEI.D.
simple that it seems preferable to all others for such operations as the preparation of nitrate of silver from old cuins, ctc. Any accompanying gold remains behind during the treatment of the metal or alloy with nitric acid, chloride of silver, produced by the impurities [ HC ] in the nitric aced is taken up by the ammoniacal solution like the copper, and is also reduced to the metallic stato; and whatever other metal is not left behind, oxidized by the nuric acid, is separated as hydrate (lead bismuth), on treating with ammonia. Any arseniate which may have passed into the ammontacal solution, ts not decomposed by the copper.

## SOIENOE AND OTHER NOTES.

A poon Jowish watchmaker, of Kisheney, in Hussin, has just oomp!oted aftor tro ycars labour, an ingenious clock, which at cortain hours of tho day plays tho national anthem, and givas a mimic representation of tho corouation corcmong. Whon tho hour arrives two doora Af open, disclosing a model of the Cathedral of tho Assamption at Moscon, where the Czars are crowned. Then the gatos of tho cathodral swiug back, and mithin appoars tho Hetropolitan of Moscow surrquaded by diguatarios of tho chured in gorgoous robos. The Eropanar and Empross antor and aro aprinkled with ooly wator . thareapon tho Empror takes a goldon cromn fram the Mfetropolitan and pleces it on his own head, and a second orvma upon tho houd of tho Empress, and the doore of the cathodral closo. Tho maker of this ingemions toy will prosont it to their Imporial Mrajostics immediatoIf after the coronation, providod, of coursc, that tho pollico sro sume it contains no dynamito.
Taz Volsh Paizs Coupetition of 50,000 Frascs.-Tho Fronch Dopastmant of Pablic Works has rocentis commanicatod to the Proaddont of the Acadamy of Sciences the conditions of the Volta mizo to bo compoted for in 1887. Altor a gencral explanation of tho importance of the Voltaic colamn, follow the fire articles for compctition : 1st, the prizo ot 50,000 Irancs, astablishod by recolntion dated Juve 11, 1883, will be giren as a rerand to tho author of a discorery making cloctricity saitabla to bo adaptod in an coonomical manner to tho following usce: An bourco ol heat, light, chemical operation, mochanieal forcos, as means for sending despatchos, or for tho tratment of zicknces. 2nd. Scientifio men of all nations aro admittod to compotition. 9rd. competitivo Cocuncente will bo rocaired up to Jane 80. 1887. 4th, a committco, to bo naminatod by the Secrotary of Pablic Works, will test tho diecorarice of asch compotitor, and docido to whom tho prizo sha'l bo amarded.
Intermational Mreadily. - As is woll known, the J. 8. Gorcroment has proposed a anilorm intarnational moridian in a diplomatio circolar sddresesd to the several civilized nations. A rors srout ecrrico weald bo rendered both to shipping intorests and goograpisical sconco by tho aniror. and suioplion of this monsura. Bat it is, unhappily, to bo foured that potity mational joaloasies will also in this caso thrart tho proposel. Whilo Garmany would undoabtodly sacrifion ite ancient, almost obsolote, maridian af Forro for a mare modern rensiblo one, the caso is mare doabtial alrondy with Franca. whether thay moild
pationtly resign tho maridian of "Paris," and Whon wo como to England tho caso is still maro dubious. London papers already claim that Great Britain, as the first commercial, marino and colonial powor, should under all circamatances have the exalasivo right of giving the deciding roto. This, when practionlly interprotod, means nothing less than shat England retalns its Greonvich moridish also for the future, and all otbar nations adopt it withont furthar cavil.
Eartil Maonetisy.-The magnetiam of the carth is still an unsolved problom Professore syrton and Parry lately pablishod on hypothesis that the carth was loaded with atatio clectrioity, whiob, by reason of tho revolution of tho carth oporatad like a circulnting cirrent and magnotizod its core. This hypoticsis, however, suffered a sad blow by the mathematical criticism of Prolessor Rowland, who explainod that tho chargo nocessary for the surfeco would aleo be strong onough to scond a apark from tho carth to the moon. Anothar thoory is based apon the prosenco of an oleotrio current in tho air sarrounding the earth. Proceeding from tho idea of M. Eddiand, that an eloctrio ourrent is nothing else than a carrent of etber, which flow in the revolation, and that cleetro-staric effocts ware duo to tho rarification and condensation o? the air, M. Solim Lremstrom soaght to proinco sach an cther curront in a mochanical way. Il a doublo tube of papar is sot into rotation with a corn of eoft iron, this will bocomo magnetizod, es proven by two finc astatic nowder. Upon roversing the rotation, also the magnetic polos rill roverec. NS Icmstriom deducos therofrom the relativo motion of the ether in the rotaling tabo to bo the causo of polsrity. If tho tabo wero stationary, and the coro revolvo, a similar effoct Fonld be oblainod.

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