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## THE TRADER.

TORONTO. ONT.. OCT., 1883.

Sent free to every Jeweler and Hardware Nerchant in the Dominion of Canada.

## Advertising Rates.

Full Pagc. - - 820 oach issuc
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Guarer Page. $12 \infty$
Small Advertisements, 8 ceuts per line
A discount of 25 per cent. will be allowed | frum the ulure rates fur jca-l, wntrauts. All advertisements pavable montinls,
Business and other communications should, be addressed to

The Trader Publisung Co., 13 Adelade Street East, Toronto.

## SPEGILL ROTIGE.

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

## Exitarial.

## IMPORTANT TO IMPORTERS

The customs department of Cauada bare recently seen fit to put as furce Sec. 81 of the Custome Act of last session in regard to the cortufying of mponces. This section resds as follors :

- No entry slall be deemed perfect "unless a safficuent auroice of the, " goods to be entered duly rectufict in " uriting thereon as corrcce by the " person, firm, or corpmation from " whow the said goods were pur"chased has been prod aced to the " collector and duly attested as ro" quired by this Act."
In other words, unless the foreign exporter certifies over his omn signature at the bottom of each invoice as to the correctress of the goods shipred by him, his castomer, the Canadian Importer, will find it impossible to get them out of bond and into his mareloonse. Aithough this may scem a very irritating regulation to maporters, it is simplicity atself compared with the American system, whech not onls requires verfication as above bat the costly addition of Consul's certificates.
We have taken the trouble to interview the castoms authorities in reference to this regalation, and thoy assure ae that all that is necessary to carry it oul 15 zimply for the shipper to writo on tho
bottom of every invoico the words "Cer. tified Conract," and sigu their name immodiately bolow it.

It would be woll if exporters would make a note of this - it will savo their customorsa great deal of delay and annoyanoo in getting goods through tho oustoms, as we understana that in future no :uvoices will be accepted for this purpose unless vouched for nì above,

THE GREAT FAIR.
The fifth exhibition of the Torunto In ,dustrall Exhibition Association, has been pore than ordinarily satisfactory, and the management are to be congratulnted upon the great snccess it has achioved. We are glad to know that the receipts were nearly firo thoussnd dollars more than last year, which fact will onable the Directors to carry ont in a satisfactory manner many needed improvements.
The weather during tho two weeks of the continuance of the Fair was all that conld bo desired, and as a consequence the city was fillod to overflowing. Indeca, outside of Montreal, we donbt Whether any other Canadian city conld have afforded accommodation to such a swarm of sight seekers; as it was, Toronto's hotels were taxed to their utmost capacity. As showing the character of the Exhibition, which is becoming more cosmopolitan erery sear, we may say that not only did the outlying provinces of the Dominion farnish their quota of risitors, bat several thousand citizens of the Unted States thought it worth their whilo to come over and inspect it.
Of the Exlibition itself we have scarcely spaco to speak in detail, bat in our opinion it certainly sarpassed any. thing of the kina ever held in Canada.
As shewing the progress the Dominion is making in manufactured products, it was well worth a visit, and we have no doubr overy true Canadian must have felt a pride in knowing that in the line of goods thas slemn Canada is fally abreast of any country in the woild. In horses, cattle and other live stock, the ontrics were annsually namerons and the exhibit very fine. Taking it together it was a rrand show and well deserving of the liberal patronage it received from all classes of the community. The citizens of Torsato should feel proud of its re; cord, and do all thay possibly can to help the management in making it eyen a greater success in fature,

## THE NEW WATOM DEAT.

The new r :ulure of the "Globe Print. ing Company" in giving away ohgap nickol stom winding watohos with eaoh oopy of thoir paper to new subsaribers, is worthy of more than a passing montion, inasmach as it has oxoited no small amount of banter from othors in tho samo line of business, and provolsed a foeling vi hootuity tewards it amonget watohdealers, many of whom have hithèr:to been numberod amongs: its warmest friends. Of oourse, while The Globe has a perfect right to do bnsiness in any fesiion it chooses, there are certain methods which are so far out of the common rut, as to make them peonliar, to say the very least. The ostensible giving away of a fine stem winding watoh with every copy of their paper, at the first blualh, seems to be more than liberal, in fact it eavors more of the philanthropio than the hard hearted business policy of this ntilitarian age. On closer examination however, we find in the words of the poot, "things are not what they seem," and instead of being conceived by a libaral heart bent on sacrifioing its wealth in the attempt to provide the great unwashod at once with reliable time pieces and moral reading matter, it is really an ordinary outgrowth of the business sharpness of the present age, tho only differance being that the sablimity of its cheek is so paralysing as almost to make the sceptio feel ashamed of having for a single moment doabted the good inten. tions of so honorable and philanthropio a company. The fact of thematter is, however, and to put it in plain English, the whole thing is an imposition of the most transparent kind, and people might as well expect The Globe Priating Company to sell them dollars for fifty cents as to farnish the paper for $\$ 8.50$, and throw a good timekeeper into the bargain. Boiled down, the transaction would stand something like this: Weekly Globe for one year, $\$ 1.50$; one nickel stem wind. ing watch, $\$ 2.00-$ Total $\$ 8.50$. In other words the subscriber pays regular cash vrice in advance for his paper, and 82.00 in excess, for which $\$ 2.00$ ho gets a watch that will be sare to go when he carrics it and wurth probably the money paid for it as at toy to amuse tho baby, who oan u5s it for a $83 \times$ millor anything else that its childish fancy may suggest. Practical time-keaping qualities, it has nose, and for a man's own use, oxcept as
ballast for his watoh ohain, is ontiroly worluloss. So mach for tho true inwardness of Tha Globe's great offor.
$\Lambda_{\theta}$ far as tho watohmaking trado is oc: ornod wo think thoy lave no great canso for alarm in thes now doparture of Tha Globe peoplo. Wo don't think it is going to hurt their trado muoh, if any, whilo tho crusndo lasts, and we aro strongly of the frinion that it Find ontherraido good in tho long ran. It seoms to us that The Globe poople are doing a kind of pionoer worls in oducat. ing tho pooplo up to tho nocesaity of a timo kooper of somo kind, and any porson who bas worn one of their patent watches for a for monthes and had a inir taste of its quality will very soon become a good onstomer to some regular dealer for a real watch that will not only go when carried but keap roliablo time.
Ifit acoomplishes this, and this is about the size of what it will accomplish, wo think the Glube will not have prosecoted its watch orusado in vain, and in educating the peoplo as to the necessity of having a roliable timo keepor it will have its roward.
In conclasion, we mas say that wo have no sympathy with thoso peoplo who havo attompted to belittlo this great social reformation of "The Globo Print. ing Company." Virtuo is its own reward, anä beariug this in mind we would adviso thom to continue on in thoir elevating tabk-their reward is sure.

## FREE TRADE.

The sentiments utterod by tho Hon. Alcx. Mackeuxie in his recent speech before the Greenock Board of Trmde, Scotland, have cvoked a considerable amount of discnssion in this conntry. Of course the party pross each criticizes it from thoir own standpoint, and it is either good or bad according to the polhtics of the paper critizing it. Apart nltogether from politios, thore is much in Mr. Mackenzio's speech that is calculated to do good to Cannda, and raise it in the estimation of those who are at.present or may in the near future bo looking across the sea for a faroumble epot in which to locate. To sll such, it contang many traths that will go far in making thom view Canada in a moro favonrablo light than they bavo proballs haretofore dono, and wo shall look for good to rosult from it in this direction.

Wo think, however, it was unfortunate
that Mr. Maokenzie alhould have touched upon the question of froe trade as against protoction at all, sooing that his nadionce, howovor loyal they may bavo been to Groat Britain, coald nfter all only viow this question, which is really nono of thoir businoss, in the sight of their orn intorests. Their intercst is, as a general thing, opposed to tho progioss of Canndian masufacrures, and it is nowondor that tho free trade sentiments uttered by our ox-premior should have been recoived by them as marbs of warm approval. If Mr. Markenzass spocoh is tu do any good for Cenada at all it must bo becanse it is instrumental in influencing emigrante to come to this country in preforence to going elsowhero. If it does not havo any cifect in this way, it will havo beon siauply as "a sounding brass or tinkling symbol," pleasant perhaps, but uzoloss. If it should have the effect, howevor, Which wo trast it will, of inducing Sootchmen to come to Canads, we are strougly of the opinion that if there are any manufacturers amongst them that thes will change their trado creed before they are hare many jears. Trade is selfish, and What is sound dootrino in England, may bo rank horesy in some uther part of the world. Thus while Britain advocates free trade, it is simply because that aystem is bost adopted to farthor hor own interests. The country is one huge workshop, and her facilities for manafacture are so great that ahe can produce many lines of goods cheaper than any other nation in the world. With Canada it is the reverse; free trade to us means simply that wo may close the bulk of our manufactories and become mero hewers of wood and dnawers of water to Great Britain, the United States, and any other country that is more fayourably situated for manufanturing than we are. Wo do not think our people will caro to do this, and although free trade such as Great Britain enjoys is entirely out of the question with us, even the revenue tariff of anti-protection days is looked apon by our manafacturers and the bulk of our people, as being nusaited to the requirements of a conutry bo pecaliarly situated as ours is. Of conrso Mr. Mackeazie has a perfect right to express his 0 ana sentiments npon any such occasion as the Greenook specel, but we think as a matter of policy and in the best interest of Canaila, such subjects should be left soverely alnne. The rosalt of their introduction is simply to
give the Conservative pross an oppor. tuiity of going for him, and has tho effoct of weakening the force of tho many oxcellont things whiok form tho bulk of tho specol. Politios aro all right in their plaoe, but politios and emigration don't mix well, and Britisla manufacturora gonorally care a great deal moro for our trado than our politios.

## Fiflectro Etatter.

THE SEVEN METALS OF THE AN. 0TENTS.

The ancients had a knowledge of seren motals, viz., gold, silver, copper, tin, iron, lead, and meroary (or quickilver). They wero each sacred to somo ruling uoity. Homer has mentioned all thess excopt mercury. Miercary was common in the centary noxt before the Christian era. Gold, indestractible, malleable, the richest in color, in its lustre, and its property of not being altered or even affected by the air, has been known from the romotest times. It is the Sol or san of the all chomists, who regresented it by the circle, the emblem of perfection. There are drawings of gold washings on Eggptian tombs as early as 2,500 years before the Christian era, and fine gold wire was made into oraamentsoften foand on mammies-by the Egyptians 3,500 years ago. It was coined into the leavy daries of Persia, and woven inte " 'sate threads that enlivened the floweren staffs of Bibylon. In the earliest days of Grecce goli existed in great abundsnce in the Levant. Crosus, B. c. 600, coined the goldon stater, and aboutb. c, 207, geld coins were first struck off at Rome and were denominated aurel. Copper came into uase next after silver and before iron. It rias called Venus by the ancients, who gave it the symbol of that planet. The ago of copper followed the stone age. Homer wrote in the coppor age. His famons shiold of Achillos is made of gold, silver, and copper, a small quantity of tin being put in to hardenit. The shield is itself a proof of the art of design, and the rorking in metals having attained a very high degrae of parfection among the Greoks at a period believed to have been B.c. 962. In 9 nine near Lake Saperior there was found, in 1858, a mass of oopper fosty-eight feet long, twonty feet
bugh, and oalculated to contain 150 tons. Brass, which hns ofton been oonfounded by aucionts with oopper, is morely an alloy made by mixing ono third of zino with two thirds of copper. Brass was made by the ancionts without disoovering zino. Iron, tho most important of metnls, came into common use loug after copper was well-known. It was rogarded by the ancients as a symbol of war, and reosived the name of Mars, the god of arms. Homer mentions a mass of iron as one of the prizes nt the funeral gnmes given by Achilles in honor of Patrocius:-
Thon bufed tho hero, thundoring on tho pround A mass of tron, an onormous round. Vhose wothti and siro tho circling Grooks admiro, Hudo from tho foracico, and but ahapod by ara

In 1587 8. o. tho Lacedemoninas coined iron into money. At Babylon the huge stones of the bridges were held together by bands of iron fixed in places by moi..nn lead. Thaoydides tells us that the rails of Pireus were fastened in the same way. In preparing the stone for bailding the Pgrimids iron was used, Herodotos affirms; and Iroc must have been employed in engraving the boantiful old gems which now are so valuable. The Ninevites made tools of iron, the ancient. Britons made spears and lances of it, and the Romans, daring their woupation of Britain, smelted iron to a considerablo extent. The iron wines of Elba are said to have been worked from the time of Alexander the Great; and Pliny speaks of this region as "inexhaustible in its iron." The mines of Arragon and New Castile in Spain are supposed to have been worked from the times of the late Jewish kinge, successively by the Tyrians, the Carthaginians, and the Romans. Through all the na: tions of ligh antiquity iron is montioned almost always in a way tiat shows it to have been a partially common but alrays highly esteemed mekal. Indeed, frum tho difficalty of working it with the primitivo means at tine.command of men jast omerged from barbarism, it was held at a high price. Only 153 years ago, Batachoff, in Rassie, bartered iron for an equal weight of copper coin. Lead, a blaeish.grey metal, was known to the Eofytuans at an early date, and is menthoned by Homer; it was ased in Rome in pipes to conves water, and in thin sheets for roofing purposes. The powder (cyrassa) used by the Athenian ladies to tant their complexion, was our white lead. Lead owes its usefulness in the metallio
state chiefly to its softuoss and fusibility. In auciont times tin was sonrso, and tho ohiof supply was from India, Spain, and the celebrated mines of Cornwall, Eug. land, which havo boon worked muiutorruptedly from the enrliost historio poriode. Tin was used by the Egyptians nearly 4.000 years ago.-Ex.

## FOES OF THE TELEGRAPH

If you will kick or pound on a tolegrayh pole or place your car against one on $a$ windy day what will the noise romind you of? 1 hive of bees? Precisely. So it doos the bears in Norway. Bears are passionately fond of honey, and when in one of the wind districts bruia heara the humming of the wires he follows the sound to the post where it is loudest and begins to tear away the stones heaped round the poles in rocky soil to steady them, in order to get at the hive which he imagines to be there. In his disappointment and disgust he usually leaves savago marks of his claws in the wood. Nor is he the only victim of the wires. In the eleotric exhiiition at Paris, they show the top of a thick pine telegraph pole, through which a woodpeckar has drilled a bole several inches in diameter. The bird had apparently perched on the pole and taking the lumming of the wires for the buzzing of a nest of inseots in the wood, and had set himself manfally-or bird-fully-to dig them ont. Wolves will not stay in Norway where a telegraph line has been built. It was formerly the custom to protect farms by planting poles around them strung with cords, sqmething like rabbit snares, and gradually thi folves came to respect these precautions so that a line stretched across the neck of the peninsuls would protect the wholo district. The wolves take the telegraph for a new and improped suare, and promptiv leave the country when a lino is built. On our own treeless plains the buffulo hails tho telegraph pole as an ingenious contrivance for his own bnnefil. Luke all cattlo, ho delights in scratching himself, and he goes through the performance so energetioally that be knocks down the post. An early builder of telegraph lines andertood to protect the posts by inserting brad-awls into the wood, bat tho thick skinned baffalo found the brad-anlo an improvement, as affording him a new sensation, and scratched down more poles than evor.

In Sumatra the oloplannes are systomatically opposed to tolegraph lines, and at least trvonty timos a year mako raids on them. In May, 1876, tho elophants toro down the polos for a distanco of sovoral furlongs and bid the wires and ineulators in the cano jungle, and for throe nights in succossion thoy repoated tho performapoe as rogularly as the ropairors rohuilt. the line during tho day. The monkoys and apes are about as formidable onemios, as thoy use the wires for swinge and trapeze and carry off the glass insulators as valuable prizes; thon, when the repairor goes to correct the misohief, he may be pounced apon by a tigor or driven up the post by a mad buffalo. In Japan the upecial enemies of the tolegraph are the spiders, whols grow to an immonso size and avail themselves of the wires as excellent framework for their wobs. So thick are the cords the Japanese spiders spin that often, especially when they aro covered with dew, they sorvo to connect the wires with each other on tho ground, and so stop them from working. In the sea the wires are notany safer, as a small worm has developed itself sinco oables came into fashion which bores its way throngh iron wire and gatta-parcha,:lots in the water and so destroys a line worth milliens of dollarz. When a great storm comes on in the contre of the occan, and the cable breaks while it is boing laid, or threatens to break, no one is alarmed. They fasten the cable to a buoy and come back afterward and pick it up; or if it is at the bottom of the sea thoy drop a dredge, with a mule or so of rope, and figh out the precious thread, ay largo as one of your fingers, almost as easy as you would fish up a penny from the bottom of a tub of water with the tongs. But the little worm, no bigger than a needle, is more formidable than the elements or the hurricane.-Ex.

## THE WATOH RAOKET.

## From the Ifamilton Spertator.

The Toronto Clobe Printing Cumpany makes anduancemour that it has gone into the intellectual and exhilarating business of peddling nickel watches. In order to facilitato the business the company has erect- a tout on the exhibition grounds, wher die watchos and the Weekly Gube will compote with circus lemonade and fat women for popular farour. The cases will be elegantly illustrated with wood-cut engravings,
wholly regardloss of cost, and ovory soparato and individual watoh will bo warmatod to go as long as anyone will onrry it. Each imploment will bo poovidod with a patont safoty-valvo and stem-winding attaohment guaranteed to mako tho hands go round so long as anybody grinds at the orank. The whole business to bo shipped to any addross in Canuda or the United States postage paid, and insurod against firo, pirates, and dealla from old ago while in transit; and the prico is fixed at the ridiculous low sum of $\$ 8.60$, while tho Weckly Globe for fiftoen months will bo thrown in as an inducoment. In the language of the advertisoment, this is "a "iberal nad magnificont offor."

Witis one of these watches in his pocket ovory consistent Reformer will bo able to riso as goon as he wakes in the morning, grease his boots, and pNlish up the watch-caso with a little brickdust and tallow till it shines like Mr. Mowat's counteanance or Mejor Walker's reputa. tion. He can then go out and regulate the rising of the sun. When he goes fishing be can use the watoh for an anohor; and whon ho is disposed to be ostravagant, it will be a silent monitor of the value of casin payments by reminding him that there is "no triok here." It will indine bim to turn his thoughts to the things of eternits, because it will resolutely rofuse to take any cote of time. It will bo warranted to make its owner a frea trador because ho will freely frade it for $\mathfrak{a}$ jack-knife or a mess of string beans. It will firmly convince him that the Tories. will never get into power in Ontario, because ho will mentally associate the watch with Mr. Mowat ; nud ho will never have any diffcalty in persuading himself that the watoh will not go.

It is difficult to learn from the advertisement whether a ratch is to bo given as a bribe to induce peopla to read the Globe, or whether the Globr is to be thrown in as an inducement to buy a watoh. The two are fitly associated. The Globe is just the paper one would ox. peot to find in company with a $\$ 3.50$ watch. The people who nould pat faith in a $\$ 8.50$ watol are just those who rould be apt to believo a Globe editom!. No doubt the match peddling business will be succassful, because tho man who conld bo bribed to read the Globecan no doubt bo canght by the offer of a
$\$ 8.50$ watch as well ns by somothing of commorcial value. It would bo gratifying to seo tho man. Ho who could sit with the Weekly Globe in ono hand and tho Globes petwter watol in tho other, all for the modeat sum of $\$ 8.50$, and have his pioture taken in the atth. tude of one resolved to defend Ontario's rights to tho last gasp, would bo a man whose photograph we should like to have -not for its intrinsio worth, but as a reminder that simplo trust and guileloss inuoconce havo not yot perished from tho earth.

## GEMS AS OUREE.

A writer in one of the English magazines says: In both the Greek and Roman writers there are endless references to the curative power of precious stones. From many of the allusions it appears that the dio!ntes of fashion here, as everyshere else, had much influence over the prevailing belief in the virtue of particular stones, now one and now another being held up as specially efficacious for the cure of certain diseases. Thus, while the "Crystns" and the "Adamas" stood for a long time among the Greels at the head of the medicinal agents, that ppsition was afterward assumed by the "Sardius," or the Oriental zarnelian. " No other btono," records Pliny, "was so greata favorite with the Greeks as this, and the plays of Menander and Philemon abound in allasions to it." The cause of this favoritism lay probably in the facility with which the carnelian conld be cat by the engraver, the dull red fesh-colosed stone offering by itself no other attractions. Such engraved stones, cithor in the form of intaglois or of cameos, constitute to some extent an epoch in the history of gems, as it modi. fied tho original idea of stones boing possossed of inherent virtues. To this came now to be added the oonception that these pormers might bo raised or clanged by pictares and inscriptions from the hand of tho ongraver.
The current of ideas that led to the engraving on precious stones is very clearly sketched out by Camillo Lionardo, an Italian writer of the fifteenth contary, himself a firm believer in the porser of "charms" and "amulets." Taking up the argament that the ancient Grecks and Romans, following in the footsteps of the Egyptians and Persians, were perfectly reasonable in attaching value to
engraved stones, Lionardo goos on to say: "All things in anturo havo a cortain form, and are subjeot to corlain influenres. So, also, precious stones, voing natural productions, havo a proscribed form, and as suol are subject to the universal iufluence of tho plauels. Hence, if these stouos be engraved by a skillful person, under some particular influenoe, they receivo a special virtue, as if they had been endowed with additional power by that ongraving. And should it happon thas tho poweriatended by tho engraving bo the same as that of the natural quality of the stone, its particular virtue will be doubled, and thereby its efficacy greatly augmonted."

## SELINNG THE JEWELB.

The Plantegenets wore very rough-and-ready financiers. When Riohard I. took it into his head to try conclusions wilh Saladin, he raised the needful by tarning the orown manors and the fortrasses of Roxburgrand Brewick into hard casb, solling offices of trust to the best bidders, and did not hesitate to avow that he would dispose of London itself if a purchaser was forthcoming. Strangely enough, Cocur de Lion never seems to have thought of doing the same by his crown jemelb. Henry III. was the first English monarch who had rcoourse to that uudignified expedient. Tha idea, indeed, did not originate with hiw; for it is recorded that when some persou or persons unknown suggested the replenishing of the royal coffers by selling the crown plate and jewelry the King hinted a doubt as to the likelihood of finding purchasers, and being assured that tho citizons ofLiondon would gladly accommodate him. Henry exclaimed: "On my word, if the treasury of Augastus were brought to sale, the citizons are able to be the purchasers. These clowns, who assame to themselves the name of Barons, abound in everything, whilo we are reduced to necessilies!" Notwithstanding his indignation, Henry, like other men in his prediotmont, was willing enough to deal with the full-pursed oues he abused, and so, in 1248, he sold the citizens of London all the plate and jemelry he had already mortgaged to the merchants of France. The selief afforded was, however, only a temporary ono, for seven years later wo find him demanding 8,000 marks of the Jews, and answering thoir remonstranoe against the exac-

## NEW LINE

# Jas. Fooss' Gofd Watfi Cases. 

 THE LOUIS XIV OR BOX JOINT STYLEE

These Cases are engraved in all designs now being used on our regular goois, as well as a special line, particularly adapted to this style of case.

THE BOX JOINTS ARE ALL MADE OF SOLID I4k. COLD.
The $7 A S$. BOSS GOLD WATCH CASES are unapproached in quality, construction, finish and ornamentation.

The Gold used upon them Assays $14 \frac{2}{10}$ Karat by U S. Mint Assay.
All of the parts most subject to wear are made of SOLID GOLD. They ane not gilded to make them look better than thej; ally are, consequently will not change color in a short tinne, to. the annoyance of the dealer and disgust of his customer.
tion by ploadicg that ho was a heggar, spoilod and strippod of all his rovonnes, without a farthing whorowith to beep himsolf, and therofore must hevo monoy from any haud and by any means.-All. the Year Round.

## A LOOKY FIND.

In 1847 Godfroy Lather and Lis son wero ongaged in gold mining on Wilson's branch, in what is now Wilson's district in this country. Their appliances wore of tho rudest kind, consisting of sluico and rillo boxos and tho traditional miner's pan. Oa ono occasion, Col. Jolu E. Medwine, then a lad of about 10, was sent by his father to Mr. Lather's works to soe him aboat some businoss mattorWhile there tho oldor Luther and some other gontlemon walked off somo littlo distance, and ho contiaued in conversation with the young man, who was "panning out" some carlh and showing Redwine the gold. In one pan ho notioed an orcoedingly besutiful pobblo, and called Mr. Redwine's attention to it, and whilo they woro admiring it the other gentloman rotarned, and thoy also noticed its beauty. Tho gentlemon, without any ides of its value, remarkod to the boy, " I'll give you a dime for it." "All right," said Lo, and nocepted it gladly. Sometime aflorwurd tho gentloman was in Gainosvillo and showed the stone to Dr. Daniol. That gentloman bolioved it to be a dismond, but fiuslly paid the gentloman $\$ 30$ for it and took tho stone Ho sent it to Lendon, thore being at that timo no diamond catters in the United States, where experts pronounced it a diamond of tho first mater, and he reooived for it $\$ 800$. It was afterward rumonred that it sold for a mach larger sum than this, but nothing is known positively of its history boyond its sale in London.-Gainssillo (Ga) Eagle.

## MINUTE WORKMANBHIP.

Tho Salem Mrusaum, Massachuselts, has in its possession a olerry stono con. taining one dozen silver spoons. The stono is of tho ordinary aizo, tho spoons being so small that their shapo and finish can bo distinguished only by the miaroscope. This is the result of im. monso labor for no decidedly usofal purpose, and thero aro numbers of other objocts in oxistenco tho valuo of which may bo said to bo quiot as indifferent. Thns, Dr. (lizer givos an acconat of a
ohorry stono on whioh wore oarvod 124 hoads, so distinctly that the naked oye could distinguish thoso bolonging to papes and lings by thoro milors and crowns. A Nuromberg top makor inclosed in a cloorry stono whioh was oxhibited at tho French Orystal Palaco, a plan of Sobastonol, a railway atation, and the "Dessialh" of Klopstook. Pliny, too, montious tho fact that Homer's Iliad, with its 16,000 verses, was writton in so small a space as $t s$ bo contained in a nutsholl. The greatest ouriosity of all, howover, was a copy of the Bible written by one Potor Bales, a chancory olerk, in so small a book that it could be inolosed within the sholl of an English walnut.Ex.

## PEARL BHELLS.

The Central Ansieger contains the following item from Adorf, the chief seat of the German mother-of-pearl industry:
Our mother-of.pearl induatry, principally engaged in the manafaoture of articles do luxe, generally are received only aftor Now Year; but this timo our workmon were busily engaged. Orders from America have again been recoived plentifully, and give rise to the hope that work will be abundant. We mist remark about the source of supply of the crudo shells, that nutil now Liverpool supplied all demands, being the centro of shell seekers. But according to an item in an American nerrspaper, America again enters into competition with England. The steamer Bursurell sailed at the end of last year to Havre, loaded, among other things, with thirtysix bogsheads of pearl shells, which were seut to a manufnctarer at Paris. Should they turn out to be gobi, America will soon bo able to send more. In the frotories at idorf, the, Awcrican sweetwater sholl Cassia, has been used alroady, but it is said that tho aforesaid vessel transported a new sea shell, found on the southern coast of California, and took thom as samples to be tested. That also very valuab!g finds of shelle may be made, is shown by the circamstances that, in 1827, a Paris professor paid the sum of 6,000 francs for a Spondylus reguius, and that a ferr years ago in London, a very handsome sleell, without pearl, was soldat anotion at 1,200 francs. Should America serionsly euter the market as sholl furnisher, the orudo matorial will at loast not become dearer.
gnalish and anerioan brank AND HAND WORE.

In the Soptomber number of tho Atlantic Mfonchly, Mr. Riohard Grant White has given a very gracefully writton and interesting account of $n$ visit to Oxford and Cambridgo and of whint ho san thero.
Ho says: "Nothing impressed mo moro constantly and more pleasautly in England than tho absence of 'drive.' Eversbody ecemed to tako life easily; nobody seomed to bo very hari worked, and yot the nmount of effective woish of all kinds dono in. England, whether with hand or hoad, is very much greater than that which is done in America."
Tho implication is that in this country people rork in a hurry and accomplish less than in England, where they keep cool and go slow. Now, we are nres pared to dispate this proposition with referenco to hand work and alse, with reforeuce to head work, except in a peculiar litorary field. In philosophy and in the higher walks of litorature, Eugland excels Amezica; in soientifio thought or in mechanical havdiwork, in proportion to the numbers eagaged in such pursuits, America outstrips Eng. land. It is a noted fast that, with regard to mechanical and manufacturing opemtions, in proportion to the help employed in our establishments, a far greater amonnt of production is accomplished than in English establishments, and it is owing to this faot that. notwithstanding the much higler price of labor with us, we have been gnabled to cuter the markets of the morld and successfully competo with England, even in the products in which sho has, till within a fem years, held a monopoly.
Englishmen coming to this conntry and entering our machine-shops aro astonished at the rapidity with which certain kinds of work are performed. Americans visiting English work-shops are equally astonished at the slowness with which theso oporations proceed.
The reason why England exoels us in the higher walks of literature and philosophy is that a greater numbor of workers exist there, who aro, on accoant of their wealth, possessed of leisare to parsistontly fursue any course of study ithich intorests thom. Hero, nearly every stadent is obliged to devore more

## THE AMERICAN WATCH CO.'S

## PATENT DUST-PROOF STEM-WINDER,


(Extract from a letter written by C. S. RAYMOND, Clinton, Iowa, April 29, 1881: )
"I wish you would send me a Spring for the Wm. Ellery Watch.
' By the way, this Ellery' is a watch I sold to a farmer, in your Screw Bezel Case, last Fall. The first of January he "lost the watch in the woods and found it this week in about one foot of water. It had lain three months and "over in snow and water, with but a slight injury to the watch-only a hair spring."

The above, as will be seen, was a very severe test, and demonstrates that, for a reasonable length of time, during which a watch might be under water, it would receive no injury whatever.

We wish to call attention to the fact, that although we do not guarantee such cases to be absolutely water-tight, many of them are, and nearly all can be made so, with a little care and attention to detuils, such as thuroughly cementing the glass, etc.

## As a Perfectly DUST-PRCOF Stem-Winding Watch Case, we challenge the world to preduce its equal.

## ROPBIINS \& APPIFIONN. SOLE AGENTS.

or less time to some occupation by whicls ho oan gain a livolihood. - Amer. ican Machinist.

Wo fully coincido with the above oriticiam quotod from tho imerican Machinit, and remark that so far as tho horologioal jowelry and ailvorware trados of this country aro concorned, whilo thoir artizane havo laoked almost all of tho ordinary monus of technienl oducation in their varions trades, having no organizations, sohools, libraries, or his. torical past with ite "old mastors" from which to draw knowledgo and inspiration, they ontered their own market to find it ocoupied by experionced and wealthy foreign compotitors, while they wore absolutely unknown in any othor. The "absonco of drive," "the taking life easy" among her lam-makors and tradesmen, the nursing of pride and prejudice in trade, the catering to the trade of royaltyand goverument "boards" has givon to tho busy, inventive, persist. ont Yaakoo an opportunity to catol the ear, pleased the oye, and fuvor tho pockets of the geuoral public overywhere. As a result our factories in theso trades, and thoy are many, aro busy witheut exception, and unloss. Englaud listons to othora than such "gracefal" and pleasent writors than Mr. Richard Grant White, and provides more wholesomo rogulations for her tmdesmen her manufacturing interests in the lines for which we speak, will remain in the very "un satisfactory stato" in which they are to day. Jevelers' Journal.

## MHOA MASES.

A well known German manufacturer of mioa wares, Herr Raphael of Breslau, now makes mica masks for the face, which are quito transparent, vory light, and aro atteoted neither by heat nor by acids. They affor: good protection to all workmen who are liable to bo injured by hoat, dust, or noxious rapours, to sll workors with firc, metal and glass molters, stonemasons, ctc. In all kinils of grinuing and polishing work tho flying fragmonts rebound from tho arched mica plates of tho mask withont injuring them. Theso plates are fired in a metallic frame, which is well isolated by means of asbetos, so as not to bo attaokod by heat or acid. These mesiks allow the turning of tho oyes in any direction, and, as against mica spectaeles, thay afford the advantage of
protection to the whole faco. In cortain onses tho neok and shouldors may niso bo gunarded by a shoet of cloth impregnated with fireproof matorinl, or by aubestos sheet, altnohod to the mask. The intorval between the mica and the eyos allores of workmon who havo poor oyesight wenring spectaclos, and of workers with fire or in melting operalions wearing colored glass speutacles undor the mask without fear of brenkage of the glass, mica boing such a bad conduator of heat. Whore the mask has to bo worn long it is found desirablo to add a caoutchouc tube wish mouthpiece for admission of fresh air; the tube passes out to the shualders, where its funnelshaped ond (sometimes holding a moistened spongo) is supported. The mask has a sort of cap attached to it for fixturt on the head.-London Times.

## HOW INDIANS MAKE JEWELRY.

The California sea slell is a regular artiole of trade among the wild tribes of Indians on the Plains, as well ns among the civilized ones. Tho shells are about one-fifth of an inch in thickness, fire or six-inches long, and 4 inches broad. Thoy are shaped like a sancer, and the outside is prismatio, the colors often merging into blue, green, pink and gold. Near the edge the shell is very thin and delicate, but hard to break. The Iudians savy it into pieces, some round, others square, oblong or pendant, and these they atring together by means of wire passed through little holes bored in the pieces. Brass beads are ofton strung on wires, as a sort of washer, between different parts of the earring, while chose suspended on sinews form the pendauts. A large brass ring for the ear genernlly begins a Sious earring, and to this are hung five or sis pendants, made of beads, supported on wire; to these pendants are attached a crosspiece of green hido or wood, then another column of pendants. To these are hung large and small beads, then another cross-piece and next three large wampum beads, bencath which is susponded the pieoe of shell that gives the earring its value. A shell will make one pair of rings, and it genorally costs troo robes, or $\$ 0$. They are something over a foot long, and from three to four inohes in breadth at their widest portion. What the ears of the Indians are made of, to withstand such a strain; is
a mystory; but pride and vanity tell the story of tho savage as well ns tho more civilizod dr allors in the cities and towre. -Jetelers' Journal.

## FORMATION OE DIAMONDS.

Wo do notknow in which of her labera. tories or by what long process of distilla. tion nature forms tho glitterng grains for which sou's and kingdoms lave been burtered. "Very seldom it is, and thought a miracle, to meet with a dia. moud in a veip - of gold," bays Phil Hollaud, translating Pliny, "and yet it seemeth as though it should grow no. where but in gold." That was e curious philosophy, not quite oxtiuct, which sup. posed itself able to guess where things should grow. In Balzac's novel, "Ln Recherche de l'Alisolu," the same theory survives. The hero is "trying to get the Absoluto into a corner" by means of alchemy. He does not quite succoed with the Absolute; but when all his means are eshausted, bis crucibles cold, lis furnace faded out, his friends find diamonds in tho sediment of one of his alchomical messes. Diamonds really were fonud in gold, or at least in anriferious strata, by gold diggers on the Mudgee, in Australia. In 1829 they were found in the gold washings on the European site of the Ural Mountaius. Believers in the old "sympathetio" philo. soply rould bave had that Nature mas half consciously putting forth her noblest productive energies and combining her choicest ingredients in theso districts. The gold was comparitively ler failure, the diamonds (people would have said) her success. And just as alchemists tried to distil out of gold, as the most perfect substance, tho elixir of life, so thoy wonld natarally have tried to make diamonds out of gold. Not till early in the seventeenth century did people even guess that the diamond was an inflammable substance. "Neither was it known for a long time," says the old translator of Pling, "wlat a diamant mas, unless it were by some tings and princes, and those but fer." As to its combustible qualities, the aucient writer flatly denies then. '"Wonderful aud menarrable is the hardness of a diamant; besides it lath the nature to conquer the Furie of Fire; nay, you shall never make it hot, do what you can." Yot the members of the Academy of Florence "made it hot" for the diamond in 1694



## The "Excelsion" Patent Dust Proof Case.



This is the first and only case made without one grain of solder. Every piece is cut from thesolid metal and pressed into the shape used in the case. This process hardens the gold and silver by the only 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 gold 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. He it not only 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 Execlsior 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 Cese is the strongest, best fitting and most durable case made. Ask your Jobber for the Excelsior Patent Dust Proof. Every case warranted as stamped, iS kt., $14 \mathrm{kt}, 12 \mathrm{kt}$, 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.
in the prosence of Cosmo III, and theso oxporimonts at high temperature led to the discovory of the essontial nature of the stone. Notwillestandiug the alleged discovory of a process for making artificial dinuonds, fine goods aro commanding a higher price than horctofore, because of their growing scarcety. Pref. erence is given to stones having a faint ble tint. Small first wator slones from $\ddagger$ to a carat are quito searce, large quantities of them being worked upinto tho jowelry. Owners of genuino diamonds need not got stampeded just at present over this artificial diamond bug. bear.--Ex.

## MUSIOAL BOXES:

Almost from the earliest history of clooks and clock-work, dates also the history and use of meshanical masic. Bells upon charch towers, from being sounded at stated intervals by ceclesiastics, came to be neted apou by clock mechanism, and which, in the process of time, from striking the hours, was required to announce also the quarters. The lingering swoetness of these tones begot the desire for chimes, a species of music very common upno ancient churches, and which has decended to our time. The ringing of theso chimos was a duty which demandel somo musicnl skill, as well as considerable muscular effort. These duties were also, in time, put upon the clock machinery, and hence arose the invention of barrels for ringing thescelimes.

From the ringing of chimes by acylinder revolved by the clock in the bell tomers, natarally enough gresp the custom of so coustructing the cylinder as to plas simple airs upon tho chime bella. From this beginning sprang barrel orgnos; that is, those masical machines which deprend apon the action of air apon reeds or pipes for their tones. The principles of construction aro the same, Whether it be a chime of bells in a churoh tower, a hand irgan on a beggai's back, or a music bor in a ledy's boadoir; oach are operated by a rovolving oclinder with projecticus upon it for actuating mechanism that produces masical tones; the only differenco being, that m those instruments Where tho tones aro from pipes or reeds, the valres which admit the sir must bo beld opon during tho continuance of the tone; conseqnently, the projections apon the barrel mukt bo more than points or pins, which won'd give only a singlo ox-
plosive note. To do this, a bridge or staple is nsed for suol notes, and of a longth proportioned to the time the note is to bo prolonged. -Jevelors' Journal.

## BUAINESS CEANGES FJR BEPTEMBER.

Gco. Eddleston, stores and tins, Stralford, sold out to James Nesbit. M. Myers, jenelry, Montreal, stoak alightly damagod by smoko and watcr. John Wollz, jewelry, Winnipeg, sherifl in possassion. Miss Scott, Woolstock, fancy goods, rold ont to Xliss Wood. R. Y. Ripplo \& Co., Mardqaro, Brandon, assigned in trust. Saunders \& Kersech, Storce \& Tins, Emerson, aboat removing to afanitobs City. Walton a Bind, Hardrare, Bmerson, about opening a branch at Mranitoba City. T. L. Dodgo \& Co., Eardiwaro, Fentrillo, dissolved; Dudgo continues under old style. Wm. Thomson \& Co., crockerg, Toronto, advertiso basiness for salp 20 k inst. Thos: McGratton, Uxbridga, tia9, damegea by fira 1. McLean, Brandon, Hardware, Bherifl in possession. Gro. Rliiot, tinsmith, Frederickton, N. B., amay. T. J. Carrol. Jerelor. Hamilton, sold out. J. J. Campbell \& Co, dry goods, Rogina, assigned in trust. Horsman \& Co., Hardware, Vinnipeg, assigoed in trast. Carmcran and Wostcott, hardwaro, Beaverton, assignod in trust.

## BUEINESS NOTES.

The firm of Hadden \& Rorabect, hardware merchants, Picton, dissolved Oct. 1st. E. H. Rorabeck retiring, R. Hadden continuing the business.
A large handware firm in Winnipeg, Horsman $\&$ Co., has assigned with liabilities, as shown a month ago; of $\$=4,000$, and assets $\$ 38$,$\infty$. They will probably be alle to effect a com. promise with creditors.

We understand that J. R. Ormond, jeweler, of Winnipeg. bas hat his stock scized by the Customs authorities for smuggling. and that he is likely to have several thousand dollars' worth of goods confiscated.
Thif firm of Metcalf \& Stephen of Blyth, Ont., jewelers and stationers, bave dissalved partnership. The firm have succeoded in working upa splendid trade. The business is to be continued by F. Metcalf for whom we wish every success.
We regret to announce the death of Mr Cleary, of the firm of Nerlich \& Co., wholesale Fancy Goeds dealers, of this city. Mr. Cleary was a trae gentleman, and will be deceply regretted by every one who had the pleasure of his acquaintance.

A cenr stamp, partly on the wrapper and partly on the newspaper, in the United States, coastitutes it a scaled package, and ite package will 80 oaly to the dead letter offict. The public are interested in having this official triciality more widely known.
Ori Saturiay morning last month the steamer Ansir Craig, specially chartered, convesed the emplosecs of P. W. Ellis \& Co., numbering about 150, to Victoria Park, where they held their anaual picnic, by the kiud permission of

Ex-Ald. Lobb. A long programme of athletic games were closely contested, comprising many interesting leatures.
Advertisino is to business what food is to axistence. It should be regular, adequate and varied. Large advertisements pay better in proportion than small ones. The object is to be seen and remembered. A busitiess man should bave an attractive advertisement just as much as he would have an attractive show window in his store, if the latter is in a prom:nent place How much more prominent is a good newspaper.
Tuy Montreal Customs authorities have been going for several of the retail cus. tomers of the jobbing firms recently fined for smuggling in that city. We understand that amongst others Mr. Bailey of Cornwall had his stock seized, but be was fortunately able to show that he had no connection with the smugrled goods and thas got off. Retail dealers for this reason should be very careful to buy goods only from reliable houses: if thes don't, they may find themselves minus of their extra cheap goods some day, the customs people haring a prior claim to them.
Says the Globeis Wianipeg correspondent:--" John Woltz. identified with teller Andrews in :he recent Imperial Bank emberzlement of 8 r3.soo, bas been again arresied and was lodged in the Provincial gaol last night on a ebarge of forgery. The charges are basod on cheques as follows:-A choque on the Bank of Ottawa for 8900 , signed E. Roll and payable to bearer: a cheque on the Federal Bank for 8675 , signed Wm. Stephen and made payable to J. A. Ross or bearer: a cheque on the Federal Bank for 8600, signed by Wm. Stephens and payable to beares: and a cheque on the Federal for $8 \mathrm{G7} 8$, signed by Wm. Stephens and payable to J. A. Ross. The prisoner was taken before Police Magistrate Peebles this morning and remanded until Saturday."
A New firm in this city, Rac \& Watson, offer to business men what has been ling a desideratum, viz: facilities for sending parcels from thos side of the water to the old country. This they are in a position to do from having the agency for Wheally's Globe Forcign express. London and Liverpool, which does a considerable bustness already in shipping parcels to Canada. The new firm, one of whom was with Morrison, Taylor \& Co., and the other with Rice Lewis \& Son, have a good record and have some desirable agencies. That for example of Yum. Cook \& Sons. Glasgow stecl and file works, and Andrew Mitchell \& Co., sack manufacturers. They also propose doing a general commission business.
Mfr. A. Kleiser, dealer in watchmakers supplies, No. 14 King street cart, and Mr. S. Saniger. manufacturing jeweler in the same bailding, bad a visit from certain toilers of the nipht last month. Before learing their places of business both gentlemen put their valuables in their respeciive safes, and locked carefolly their respective doors. When Mr. Kleises came down torn in the morning he found that bis door had been forced, and 20 attempt made to break open his safe, and MIr. Saniger bad the same experience. Whocver the housebreakers were they were not good workmen, as there was evidence that their work was of the rough-

# SIMPSON, HALL, MILLER \&CO., $\approx W A L I N G F O R D, C O N N . \approx$ 

——manufacturers of_-

## Ortistic ‘and U'sefill Hollow Ware,

EI_ECTRO PLATED UPON FINE HARD WHI'TE METAL.

There is nothing in Uesigning, Ornan mentation or Manu. facturing which our artists and workmenn cannot produce.

Our Facilities for Executing Fine Work yre Unexcelled.

Our Assortment is Suitablo for the Best Trade.

We carry a stock of manufactured goods sufficient to mcet the demands of the largest trade.

FACTORIES : WALLINEFORD, GONH., U.S. AND MONTREAL, GANADA.
est description. Nothing has been missed, save a few trivial articles from the roums, and it is thought that the thieves were disturbed before they had been long on the premises.
Rbrgrring to the extibit of silver plated waro by tho Toronto. Silver Plate Coropany at the lato Toronto Industrial Exhibition, the Mrail says:-
"Those who admire the, sllversmith's art and beautiful sideboards and table ornaments should seo the magnificent display of the Toronto Silver Plating Company, near the centre of the main building. All the goods showa in the case were dessigned, moulded, and finished at the company's works on King street, this cty, and so great has bien the demand for this style of work that whero twelve men were employed a year ago, thirty men are now engaged in the different branches. The sit epergnes showz. are equal, if not superior, to any that can be made outsido this city, the designs being of the handsomest and the work of the most artistic. In the east front if the case is a set uf majolica, tatle "are. munnted us teavs prate, which will sompare favourably with anythag from Europe. There are wine urns. Buhemand vases, Wedgewood ware. straulberry and cream dishes. frut dishes cut glass laret jugs. upayue aod damask gold vases, tilting ico prethers, tete-a.tere sets. There is a beautful salad boml, hand panated, and oxidized in guldand sulier. The delacate tracing and repuusse work on some of tho cxhibits surprise thuse whu keep nu account of the strides of art in this cuty. The dispay attracts great attention.
Savs the Coaticook ubererr. -" In relation to the selzare of jewelry made here on the 7 th instant. we learn that the facts are as follows: Information had been given that J. H. Jones \& Co., of Afontreal, had some tume ago, kad some jewelry smuggled through for them, and, in consequence, the Custom Ufficer Lemone when he saw N. F. Jones here went to Collector Willams for instructons, the Collector said ex amine him. This was done by Lemone in presence of Collector, and Jones was politely asked for his invoices. Ho had none, alleging that all invoices wero in Montreal, where all their goods were entered. To accommodate Ar. jones. Collector williams scat the trun of jewelry into Montreal in charge of Officer Lemoine. who handed it over to the Customs there. We have since learnt that Mr. Jones, in return for Mr. Collector Williams accommodation, no doubt. has turmed around quito savage and abused the Coatioook Customs for darng to sus. pect the honcsty of his house. It scems to us that Bl r. Jones is just as amenabic to customs inspoction as any other trader, and has been troated far better than our tounsman. A. O. Norton, who was knocked about by the Monsreal Customa for seven days, ard put to considerable expense because some souldd.be sirtuous person sxid he uzs a smuggler."

## "DONE UP" FOR DIAMONDS.

how a hotzl clesk swindled three TOKONTO JRWELERS.
Wm. P. Snwycr, the young man with the terra cotta hatr and moustache. who for the past six moniths was to bo seen behind the deak at the Rossin house performing ihe dutiss of
clerk, handad in his resignation to Chie! Clerk Nolan Wednesday morning without previous notice. Mr. Nolan was taken somewhat by surprise but said nothing. He examined Sawyer's accounts and found them correct. Sawyer said his reason for leaving was that he wished to return to the boot and shos business with Mr. Brown in Queen street west. The proprictor of the hotel subsoquently had a talk with the young man and told him that there was something on his mind. "Whatever it is," said Mr. Irish, "I would advise you to get rid of it. as it 15 nothing good." As will be seen by the sequel. Mr. Irish's words proved to be prophetic. Nothing further passed then and Sawyer was pand off. About noon an express package from Chicago marked \$500 arrived at .he hotel for Sawyer. It was placed in the safe, pending the ex-clerk's return. He camo back between i and 2 and on being informed of the arrival of the package requested that it be allowed to remain in the safe, as he did not wish to use the money just then, all of which tumed out to be pars of the game that Sawy et thereupua set oat io play.
The nice yourg man did a rushing and most successful swindhag business in the next two hoars. Fram Ellis \& Son, jewelers, he bought two sets of diamond ear-drops for 8050 , tendering in payment a check on the Home Savings \& Loan Co., Church street. Mr. Ellis knew his purchaser and accepted the check, which was made payable on the 28th. Sawyer bore of his diamonds in triumph. He next presented binself at C. \& J. Allen's establishment, where. through the same device, be obtanned precious gems to the value of $\$ 500$. Woltz Bros. were his next. rictimx. 'He mantèd to purcliase large: If from them with a check, but they refused to accept it, although they let him have a \$125 ring na the promise of bis paying them the next day. Mr Sawyer now thought that he had all the diamonds be wanted and went mato the bogus draft business, obtaining an advance of $\$ 187$ on one from Growski \& Buchan. The dreft was drawn on a Chicago firm. This ended Mr. Sawyer's operations and he immediately made himself scarce.
Between three and four o'clock Mr. Ellis enquired for Salryer at the Rossin house and was informed that be was no longer connected with that hostelry. In reply to Mr. Irish, the jeweler said Sauycr owed him a small amount: Had Mr. Ellis stated the real nature of Sawyer's transaction with him, Mr. Irish thinks there would have been time to have headed the suindler off. But Mr. Ellis did not do so then, but proceeded to the Home Savings company's office where be learned to his dismay that Sawyer bad no account at all. In the meantime Mr. Irish's suspicions were aroused and be took the liberty in presence of witnesses to open the 8500 packagc, when lo and behold he found not a pile of crisp greenbacks but blank tissue paper. It was at once apparent that Sawyer was working some scheme, bat the Rossin house folks could not fathom it, as they had not heard of his afternoon's cexploits. Later on when NIr. Ellis, Mr. Allen and the other victims came to the botel and told all, Sanyer's game was soen through. In the first placo be must have had arranged with a confoderate in Chicago to send on the $\$ 500$ package so as 10 arrive Wednesday.
which would give him an opportunity to work the town that day. His object in allowing the valuable (?) package to remain in the safe was to allay suspicion, in the event of enguiry at the hotel as to his financial standing. The draft too, is supposed to be part of the confederate's work. The scheme was well laid and it was successfully operated, Sawycr being ahead $\$ 1275$ worth of diamonds and $\$ 187$ in cash The caee was of course reported to the police but there is not much chance of catching the swindler, as he is doubtless by this time across the:border, slyly laughing in his sleeve.-Toronto World.

## WORESHOP NOTES.

Solders. - Fine gold, 8 parts . fine silver, 10 . . copper, $5 \frac{1}{2}$ : or $13 \frac{1}{2}$ karat gold, so parts: fine silver, 5 ; zinc, $x$; it is necessary, however, to say that the latter solder cannut be used for articles to be wlored, and at is well to remember that aras sulder cuntanaing zanc cannut be used for coloring, as it turns black.

A silver solder not very hard of fusion whsists of I part silver, and I tinest alluy brass. or, 20 parts 12 part salver. 3 zinc. fine silver. E parts. fine alloy brass, 6 . zıac, 2 . this cumpnsition is very quick ul fusion, but less malteable that thuse cummonly empluged. owing to its great percentage of zanc (zo per cent).

Protertivis Silvermare Table ware ahd other articles of silver, suld as well as plated. invariably become tarnished if not used for some time, especially if stone coal is burned in the house or deighborbood, orying to the sul phurit contains Such tarnishing, however, way completely be prevented by first heating the ware and afterward anointing it wath a ci.as ing of collodion thinly diluted with alcuhul. laid on with a camel's hair brush. This coating dries at once and forms a very thin, transparent film, which completely protects the silver, and which, if necessary, is quickly removed by hot water. The method is much used in English silverware stores, 10 protect the ware against tarnishing.

Mosaic Gold.-One pound puretin is melted. $\frac{1}{2}$ pound mercury which first has been heated in aniron spoon until it commences to smoke is poured into the molten metal, and stirred with an iron rod, when cold, a lump is found, which must be rubbed, and when reduced to powder, $\frac{3}{2}$ pound porified sal ammonia, and $\frac{1}{z}$ pound flour of sulphar is incorporated with it The powder is then put into a glass alembic this set into a glass capel, and fred little by little. until the sand is at a glow heal. After the cooling, the alembic is broken, and its upper layer within will be sal ammoniac, below zinnabar, and lastly the mosarc gold, in shape of a gold colored glittering mass, .reighing about I-Iz more than the tin sapplic:-

To Impart a Pinely Groosd Surplee to a Glass Platz.-For this parposo, uso a very fide sand, river, or what is still bettor, the sediment Irom grindatone. Stir oither of theso in a ressel fillod with rater: after a fow minates, the apper half of the faid will begin to cloar ap, and this part, containing all the finer parts of tho agent emplojed, is dipped off with a watch.gless, The

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glase plato to bo troatod is laid upon a damp cloth sproad upon a tallo, and of tho nforessid Iluid a safficionl quantity is put upon tho plato, and tho watch glass is usod for rubbing, tis conraxity offoring a firm liold to tho ingors. In about $t$ hour a very nico atin-liku p.lish is obtainad: by rinning with mator you will salisfy yonralf that tho grindiug has bcon unform.
-Tho Deutschi Uhrm Zts. containa a aliort ro. cino for amall ratchmakers, who ouly at oud timus arce exlled upou to do gilding, watch-parts or other amall articlos, and by which tho uso of a battory is ontiraly disponsed vith. It says, misu whouls or othor parts of a watoh aro arsaburad ty hard agagn or botch repairing, and tho watch othormico is in tair onder, but would look bothor by being regilt, cloan tho parts thoroughly, grind and soratole brunh thom; noxt procure from a drug etoro or photogrnph matcrisl storo, one part chlorido of gold, and four parts oyanido of potash, dissolvo tho two togethor iv 1 oiling wator, and tho gold bath is ready: into this suspond tho articles to bo gilt by a thin copyer wiro, which is lung on a cloan scrapod stripu of zinc, and learo il immorsod for a for minutes, whon tho articles will bo handsomely gilt in a simplo manner.

Axmeazing Bterg Paets.-A communication to tho Deufsch. Indestrich, contains the folloming paragraple signod O. K. 工. I oxperimented vith steal, sud vished to olitain on it a light blue. Puro loni molts at $315^{\circ} \mathrm{C}$., and tho eamo degroo of tomporaturo is ncecseary to anucal stoal tolight bluc. I maltod the lond, raising the lynat a fow degrecs bnyond iusion, and having groand the stocl whitw, immersed is in tho lead. and affor having immersed the stool in it fora fow moments, withdrer it and had a handsome light blno color. To koop tho lead from oxydizing, fuso it undor corer of porderad charean and soila or potasil.

A similar method can bo applied for anncaling steel jollow, (at $230^{\circ} \mathrm{C}$.) by substituting zino for loed. It muss bo mearkod, howerer, that the Ilamomust bo oxtinguishod as soon as tho metal has insal, a continuad axposure to the heat would raise tho temperaturo.

## GOTENOE NOTES.

Dramatic scenc painters in Europe have about as fair an iden of things in general in this country as tho average European journalist. One of the scenes in a highly popular spectacular play performed in Paris is the Brooklyn bridge. Tho tridge looks over three feet wide and 600 feet high. Several scores of ships in full sail aro moving briskly under it. Palm trees grow on either shore and Indians sit on picturesque rocks zround the Brooklyn entrance. At the Nevy York end of the bridge is the capitol as Wesbington.

A steas buggy is under construction in Augusta, G2. The machine will be about the size of an ordinary bussy, with two whecls behind and but one in front. The machunery will be located in front, also water and gasoline tanks. The boilers are heated by two gasoline burners. The front wheel is extra large, and will bear the catire weight of the machinery. The rear of the machine will be the same as an
ordinary buggy, with ample room for soveral persons:- Its average speed is estimated a milo in threc minutes. The speed of the first horse that gets his eje on it has not yet been computed.
Ahone the companies recently formed in Paris is a society for the utilization of solar heat, with a capital of $1,600,000$ francs. The invention consists of a huge reflector not unlike an inverted umbrella, the interior of which is lined with a high reflecting agent. In the centre of this, and occupying the position of the umbrella stick, is a standard boile- made of a material highly conductive of heat. This receives the rays from the whole reflector and thus collects sufficient heat to generate steam. In addition to motors the society supplies domestic sun machines which boil water, prepare tea and coffec, grill chops and steaks, fry cggs, and ccok other food. Portable machines are made for carrying on horseback which will boil water and serve a dinner on short notice. The company also supplies scientific ${ }^{3}$ machines and even furnishes the same power in the shape of a children's toy.
Saved by Josi Billings,-Josh Billiags tells the following story of one of his own ex-periences.-" $A$ few days ago I was driving in New York, and had got just alongside the Metropolitan hotel when a man with a satche: and duster bailed me. He said he wanted to talk to me a moment, and so 1 drove around on a side street, and we stood and talked.
" "Now,' said the man, "six years ago I was going down to my lawyer's office, in the town where I lived, to sign some papers transferring a matter of \$10,001. Suddenly something of yours that I had sect in a paper came into my head. I stopped short, thought a mipute, wen! on to the office, àd had the papers burned up. zad did something entirely different from what I. had intended. I saved by that $\$ 6,000$. Now I don't know anything about how you are fixed, but if money is any object to you, if there is anything you want, I am ready to divide uith you. What will you take ?'
"I took a driak. We stepped into the Metropolitau bar. and, after a little claret and ice. 1 asked the man what saying of mine it was that he had saved his money on. He said it was something like this:- Never take the bull by the horms, but take him by the tail, because then you can let go when you want to."
" - Yes,' said the stranger. 'I concluded it was just as well to take him by the tail. I corid hold on just as well. I could steer him just as well, and let go when I please.'"

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