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## THE TRADER.

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## SHARE AIIKE.

In view of the want of an Insolvent Act, the bill introduced by Mr. Beaty, M.I. for West Toronto, providang for the ratable distribution of an iusolvent's assets is both timely and well consilereal.

As thangs stand at present, au iusolvent is practically able to elect which of his creditors he will indemnify against loss, by giving lim preferontial seonrity and makug the others "pay the piper." If the is honest enough to refuse to ba $a$ party to any such disroputablo transac. thons, his estate is practically at the mercy of the first creditor who tikes to sue him and get judgment. In any case it is tue first come that is first served, and the creditors who have their accounts closed by note are in the delightful position of haviog to stand quietly by and seo their mure furtunate sompetitors walk off with their rightful share of the estate. This is nut justice, and the sooner this condi thua of things is changed tho better it wil bo for both debtor and creditor alike.
Every wholesale merchant will agreo with the proposition that wieu a dealer fanis, his estate aloonld the dividel pro rata amuagst his orelitory, -ut mhile conced. Hus the trath of this principle, form if ang of them are generoms enough to carry it vut practically, especially theusu who Lbso the start of their competitors in any bankrupt estate.
Tho wan however who will iaugh at you when asked to give.up his security and rank as an ordinary oreditor in such a case, sees things in a very different light when some one else has the stant of him;
and ho is out in tho oold. Then it is that ho is prono to mourn man's inhu. manity to man and. to wish that the Insolvont Act, bad as it was, was in force again. Mr. Beaty's iden is to forco morchants to do, what most of thom admil thoy ought to do in all cases of insolvenoy, that is, to divide the assets of the insolvent in proportion to the ninount of the claims. Tho bill doce not provide for tho disoluarge of Insolvonts or auything of that kind, its objeot is simply us stated abuve, and for this rensou it should recoive the support and enco aragemont of overy thinking meroliant.
If wo aro not to liave a practioal Insolvent Act it is patent to evoryboly at all ncquainted with the present state of trade that some such protective mensure as this is n necessity. Every day instancos of the most glaring description come to light in which insolvents legally ignore the rights of their creditors and place t!s $r$ assets where they will get the most bersfit from them.

One of the most glaring instances of tine injustice of the present ?system, or rather want of system, is that of G. Mor. rison, a well-known retail dry goods merclanat of this city. Mr. Morrison appears lately to havo discovered that he was in insolvent circumstances, his liabilities amounting to about 860,000 , and his assets to less than $\$ 40,000$. His principal creditor is tho firm of Stewart \& MoDonald, of Glasgow. To this firm and their representative in Canada, NForrison is said to owe nearly $\$ 48,000$. Outside of that he is indelbted to 'Poronto and Montreal houses to the amount of some fourteon or fifteen thoussnd dollars. Before theso other creditors were aware of angthing out of the ordinary course of business having occurred, it turns out that the principal creditors, Messrs. Stew. art \& MoDonald, have jadgments and oxecutions in the Sheriff's hands for the full amonat of their claim. Theso exn. outions will, of course, exhbust all Mr Morrison's means, and th ? ather creditors have ao prospeot of recc vering ono cent, unless they succeed in setting these exeoutions aside, which in the present state of the las, it is very unlikely they will be able to do. All the other reditors pio fess a willinguess to havf Ditr. Worrison's assets rateably distributed, but there ia no means by which they oan have this done.

This oase of Mr. Morrison's is ne c. geptional one, but a faif sempic ur what
is tranepiring overy day in our midst.
Fortunately tho country is prosporous, nad the number of failures is proportionately small to what it formorly was, but if the samples aro any oritorion, thoy indicato thati a morcantile reign of tarror would sot in upon us should the next ora of duprossiou find us without a Buthrupt Aot. On the prinoiplo that "half $a$ lonf is botter than no bread" our morchants should use their utmost endonyors to help Mr. Beaty's law through parlinmont and lanve it placed upon tho statuto book as speod:ly as possible. Its effoct would at least bo salutary, by putting all unseoured crelitors on a level, nnd taking away from the insolvent the groatesi incentive helas at present to commit a dislionest action.

OAPITAI V. LABOR.
The struggle between Capital and Labor at present going on in many parts of this country is but another example of how easily the unthinking masses can be led away by demagogues to their orn detrinent. This queation $b$ tween C'api tal and Labor is no now oue; for hundreds of years it has poriodically como to the surface, ouly to be settled as that cxegoncies of tho poriod dewanded. If the working men fully renlized that in striving to carry out their designs they are combating one of the first principles of mercantile ccunomy, wo think that they mouli louk tnore carefully be fore they leaped into all the losses and discomforts attendant upon a "strikc."

Labor is the rorking man's capital or morchandise, and like any other uerchant ho has the 'unguestivarable right of selling it te the best pussible alvantage, and to receivo as machas iso can thore for. But ho must remunisur that like all other artiolos of merchandiso the price depende almost entircly upon the denand and supply. If the debanal is great and the supply staall the price pai? will be high, if the dutnand be smal! and the supply ia escess of the requirement, then of necessity the wages will be lo wer. In other worde when work is plenticul and laburcre acarco tho cumpetituon is bo. treen the employors or capitatist, and labor is enhanced, but whon the cuntrary is the case, the competition is ancessarily Letirects the wurkman and as a nataral consequence the value is depreciated.

This lan of surply and demand is a natural law, aud tradce' uninuc uigat ns
woll ask tho sun to consent to riso in the wost nad set in tho enst 18 to expeot that thoy onn by ony combination offect any radical chaugo in its workings.

It is trine that in some cnues such oombinations tomporarily effoot their purpose, and for $n$ time it seoms as if thoy had triumpliod, but with the pressure of hard times comes a scarcity of work and a consequent lowering of wages back to tho fonmer low wator mark. This constant change of value in labor is ns oertain as the ebb and flow of the ocenn sides, and as we have said before, any attompt to permanently ohango tho effect of this natural low would bo atteniled with failuro in either caso.

Ihero is nothing natagonistio between capital and labor, if their duties und rights wero properly undersiood. They are naturully dopendent the one upon the other, and unless thoy wall hand in hand neither of thom can expect to be properly remunerated.

The striking wors men declare that thoy are bound to refrain from work until they can got the price they ask forit; Whis is all right onough as long as they do not intorfere with those who are willing to work and take the rato that is offering. The atrukers, while desirous of gotting the lighest price for what they have to sell, very allogically refuse to allow the "Bueses" to purchase the labor they require in tho lowest market they can find. Hore 18 the weak pomt of these strikes, and here it is that they fal in effecting auy permanont good.

We thunk that the omployers of Toronto have done a wise thing in "taking the bull by the horns" and declaring that they will only treat with thrir employees mdividually and not as body. The weakest point of these Unions is that they demand that their mombers slasll all be paid tho same wages, good, bad and indifferent, it makes no matter, the pay must bo alike.

If the Unions rould grade their members according to their ability as workmen, the evil would bo more than halt reusdicd, but this thoy refuso to do, aud as a consequence the first-class workmen that can almost at any time and auder any circumstances command tho very highest rate of wages going, are com. pelled to drag their less skillful but moro demonstrativo compamons up the steep iucline of necessity.

There are many other points of this sabject upou whach we could touch did
apnoo permit, but wo will only closo with the hope that ore long the workmon of this country will neo that capital is neithor necessarily opprossivo nor antagonistio tolabor, but that the rights of caols being properly muderstcod and en. forced, tho result will be a more skillful and higher paid olass of mechunics and a bettor faoling botween the omployer and employed.

## THE JEWELRY TRADE AND THE N. $P$.

It is perfectly wonderful how differently trado questions appear when viowed through political spectacles. From a Conservative standpoint the fiscal poliey of the present Government is all that could be desired to make the country prosperous and happy, wbile the Reform viow of the same question seems to be that it is a most unjustifiable interfrence with the liberties of the people, and that on account of its oppressive tondencies the country is going beadlong to the dogs.

Both of these views are no doubt highly colored, according to the sources from which thoy eminate, aud every candid person must admit, that while both aro correct in some particulars, both are also wong in others, and that the correct estimato probably lies midway be. trueen the two extremes.

The extremo diversity of the views upon this subject reminds us very muols of a landscape we once vierred in a Scot. tish museum, which by means of difforent colored paues of glass, set side by side, the observer was enabled to viow in every transition of nature -spriug, summer, autumn and winter. Althongh the illusion was perfect tho scenery was always the same; it was only the difference in the color of the glass looked through which make it appear different. So it is with such sub. jects as this, the faots are always the sameauditdopends outirely through which party spectacles we view them, how they ara going to appear to ue.

In the fers sentences we propose to write upon the present relation of the jewelry trade and the N. P. we slall, ignoring entirely the graen and blue goggles of politics, try and vien the question throngh the clear crystal of mercantile oxperience.
First, then, has the N. P. benefitted or injured the jemelry trade of Canada? To
this question, wo are sorry to say, wo cannot give tho ungualitied assont that we should desire. We are, however, of the opinion that on the whole the present fiscal pol-cy has been farnrablo rather than oth rwise to it, but that its success would have been more real could the Government have been induced to reorganize it in ncoordanco with the wishes of the great bulk of the traile. There is no dou't that to some extent the lighor duly on jewelry hus in some small degree addod to our manufactures, but we do not think that to tho additional $2 \frac{1}{2}$ per cont. duty imposed can bo traced the whole of the large increase.

Upon tha wholo wo rather inclino to tho opinion that the manufacturing jowelry trado has increasell and prospered in spito of tho tariff mers than in consequence of it.

As we said before the addition of $2 \frac{1}{2}$ per cent. was not a vory hoavy protection to our manufacturiug juwelers, aud we do not think that any oue who hesitated to embark in its mauufacture under the old 17⿺辶 per cont. has been induced by this limited increase to chango his mind regarding it. That this incrense of duly has had un appreciable effect on the quantity of goods stnuggled into this country there can be no doubt, for just in proportion as it inoreased the value of regularly inported goods, it made the incantive to smuggle all the greaier by making the reward better worth while rauning the risk for. We have slways said that if the Goverument can possibly collect this duty by all means let thom lopy it, because it will help the Canadian Maunfacturer without in any way injuring the importer, but if thay cannot possibly colleot this duty (and there cannot now be any doubt upnn this point) then they should prolect the trade by the only method in their power, viz : by lowering the duty to a point where smuggling would cease to be profitable.

We said before we thought the jerwelry trade had prospered; not because of the tarifi but in spite of t ; the real reasons forits growth and prosperity, we think, consist in the fact that tho good harvests have largoly increased. the demand for certain classes of goods that ogn be profitably manufactured here, and equal. ly important that the long perini of depression in tho English jewelry trade Lasd rondered business .50 unprofitable that numbers of skilled workmen were forced to emigrate to this country in searoh of
the omploynuont thoy were unuble to obtain at homo. The demanal for their style of worls boing very small in tho Statos thoy unturally camo to Cauada, and honco wo find a olass of goode mado in Cauada to.day, by skilled English workmen, which a few years ago we could not have produced nt all, muoh less at a prioe which would have enabled thom to compoto on favorable torms againgt the importeà artiole.
In proof of this wo need only adduoo the fact that with the excoption of gold chains, and probably watoh cases, the jersolry manufacturad in Canada is mostly of English design and supplants goods of English aud not of American manufacture.

For this state of affairs two things are responsible; first that English jewelry being much harder to smuggle than American, the duty levied on it is really more protection in effect, and second, that English jewelry employs comparatively littie machinery in its manufacture as compared with the American, and its manufacture is therefore a very much less expensive undertaking.

With our present limited population, and a country divided from the United States for nearly two thousand milos by au unaginary line ouly, the facilities for smuggling are so great that any person who would undertake to erect and ran an extensive jewelry factory upon the American system would need to have a good deal of both faith and capital to make the venture at all, and we doubt that even with plenty of each and experleuce thrown in, he could make his venture succeed.
The jewolry trade is a present at a critical period of its history; if properly fostered by efficient legislation, we think it will grow to large proportions, but if. hampered, its growth will be slow if it grows at all. What is wanted is a wise and careful re-adjustment of the tariff, which while lowering the daty on certain lines will yet compensate for the raduction by giving a bona fide protection as far as it goes, and also by lowering the duty on the tools and raw material neces. sary to its successful carrying on. If this wero properly carried out we think a great inpetus would be given to the trade. If anything were wanting to prove our point that the present high tariff on five jewelry is not protection bat the contary, the position of the silver trade would amply establish it. At the timo the present tariff came in force, there was
but ono faotory in Cameda for tho manufacturo of Eleotro-plated ware, whioh onterpriso has since through mismanagoment passed out of oxistenco. Today two of the largest faotories in tho United States havo importnnt and well equipped ostablishments in this country, and a Canadian company is at prosent erecting a third faotory which will be equal to cither in evory particular. By the ond of the present year there will be probably tro hundrod hauds omployed in those three faotories, with an aggregate output of half a million dollars worth of manufacturgd goods. That this is a direot otitcome of the National Policy, no one can doubt, aud wo unhesitatingly assert that if il had not been for the protection afforded by the prosent tariff not one dollar's worth of these goods would have been manufactured in this country. Domestic manufactures wo had nono, and the American manufacturers held almost undisputed possession of this market, from which after a short atruggle for supremacy they land completely driven their Engligh competitors.

This being the case, it is easy to see that if they had all rgreed to remain at home and supply or.r market with goods manufactured in the United States we would still have been compelled to buy from them beosuse we conld not better ourselves. The high duty however, made it a paying venture to start branch factories here, oven though it required an immense expenditure of capital to do it properly, and the result has been what we have indicated above. But does any one for a moment suppose that these factories would have ever been started if Electro-plated guods could have been smuggled as easily as jowelry. We think not ; it is because the bnlk of such goods is largo compared with their value, that the duty levied is a real protection to the manufacturar.
On the whole as we said at the outset we think the present tariff has favorably effected the aggregate manufacture of jerselry and silver goods in this country. Now as regards the selling price; has the tariff been of any benefit? We think not, but on the contrary, that the con. trary has been the effect. In the matter of jerelry it is a fact, without doubt that nenrly evezy line of imported goods is sold as cheap if not more oheaply than before the rise in duty, while in goods manufactured in Canada the com. petition hes reduced the prices in many cases far helow the old prices of ant
N. P. dnys. Thus while tho retail morohant and oonsumor has roapod a decidod benofit by the tariff, it has offooted tho wholesnle and manufuoturor adversely in the matter of profits, although thoy havo probnbly been fully recouped for this loss by the exoess of businoss, onused by a bettor control of their home market. In tho Electro-plated ware trado, al. though a duty of $87 \frac{1}{2}$ has renlly boen collected, pricos romain us low, if not lower than at any former poriod. This is to bo accounted for by the compatition amongst the Canadian manofacturers themselves, also by the fact that Amoriona houses that have not got branch faotories Lere have been willing to pay tho duty and compate wit ${ }^{\text {b }}$ lome manfactured goods in price, i:a velor to keep thoir hold on this market and afford themselves an outlet for their surplus goods. In this lino also, a jndicious re-adjustment of the tariff would help our manufneturers largely, and it is to be hoped that the Government will see their wny olear to offer all the oncouragement they possibly can to these industries, which are not only new but well worthy of cultivation, inasmuch as they employ ä large number of skilled workmen, who earn good wages and who are a scource of strength to any country in which they live. It is by building up such industries as these. that Caxada is to be made a country worth living in, and if we do not want for ever to remain mere hewers of wood and drawers of water to other nations we should seo to it, that our young factorios get allthe real protection wo can incidentally give them.

## Gelertei Eftatter.

## THE B RITTLLENEGS OF EMERALDS.

A case was decided in lingland a short time since which has considerable importanoe for those who aro fortunate onough to possess valuable emeralds. Dr. Lynn, the well-known conjuror was summoued to make good the value of an emerald ring whioh had been entrusted to him at one of lis entertaiuments by a visitor for the preformance of a certain trick. Somehow or other the stone became brcken and the allegation of the plaintiff was that the damage had been done by Dr. Lynn himself, while smashing with a hammer the egg in which tho ring was finally found. Now it says much for the cleverness with which the trick
was preformed that the plaintiff firmly bolioval his ring to bavo boon someliow smuggled into the intorior of an egg. Of sourso this wns not mally tho caso; tho adroit prestidigitntor land the trinket olsowhoro all the time and only made it aypoar as if coming out of tho brokon ogg. However there was no doubt about the stono boing brokon, and tho solo thing, therofore, was to ascortuin how it came by tho injury. Only at one stago daring the wholo trick was the ring subject to tho slightost violonoo, and this was whon Dr. Lynn received it from its ownor into a rocoptacio that already contained sovcral coins. If the ring was oithor thrown in or let drop so that the face of the omorald atruck against an olge of one of tho coing the blow might have been sufficiunt to onuse a fracture, ospocially if the stonn lad a flaw proviously. Almost all omeralds are more or less ilnwed; indeed it is doubtful whether suoh a thing as a porfectly flawless owerald has ovor beon known. The olhances are, therefure, that the gem in question was in this impor. fect condition, and that the concussion consequout upon its fall on the coins completed the fracture. Such, at all events was tho judicial decision in tho matter, and Dr. Lynn carriod the day. But warned by experience ho now always malies an exception in the case of emerallds when he is asking the loan of a ring. Not all the magic of the conjuror's art can piece together a fractured precions stone : that feat beats Dr. Lyun himself, marvelous as are some of his manipnaIntions, ard it is just possible that sume county rout judge might hereafter to. lieve, as lit the plaintiff in question, that this Piceqdilly Wizard has the power of wafting trinkets into the interiur of unbroken oggs. Emeralds will prob. ably play n.) farther part in conjuring porformanees Lemln cilubc.

## THE DEMAND FOR THE ANTIQUE.

" We do cousiderable trade in June and July," said a dealer. "People often come in from the watoring places to got the first chance at any good things we may have discovered at tho May auctions. It talies us some time to patoh thom up to suit the market. Yes, there is always a certain demand for these worm-eaten but pathetic relics of the infancy of the republic. Wo soll to many nico people, who havo a taste for the auciont and honorable in furmiture, and thon we lave another class who buy freely and pay high
priveg. I rofer to the nowly rich. During tho past ton years many of them have takon a kind of disliko to the word shoddy;' they have found out what it means, you suo. As a consequenco thero arisos a regard for the 'old antique,' as thoy oall it, whioh incronsos our sulos and raises our profits on overything classical and riokoty in the way of furniture aud decoratives. Folks that cannot show n long line of ancostors make up for it by good collections of not strictly roliable tables and chairs." "Is it in mou or womon that this mania predominates?"
"Women. Mon get the fover, second handed liko, from their wives. Wo have to be wide awake in selling, for we can't make sales without asking high prices Some months ago a hostler came in with an old rag of a rug to sell. It was large, but an ugly, queer, faded-looking thing, ovidently a worn-out imitation of those Porsian or Turkish mats which look as though they had been dragged thiough some retail shop. I gave the man a dollar for the artiole, and my porter gave it a half hour's experience with a clab, then I out a long breadth out of the threadbare centre, squared the onds, and put a carpet sewer to stitching the pieces together, adding of cearse a heavy black fringe. Within a week two ladies called, and being of the new artistic sohool, they, of course, picked out the mat--the ugliest thing in the shop. How tender in color, said one, and she about hit it. It was tender in other respects, too, if she had only kuown the fact, 'A precious relio indeed.' said the othor; Is it Moslem, sir?' Pure Moslom, ma'sm,' said I: 'all wool-comes frorn the Adams family.' 'What is the price?' she asked. Now I'm an old dealer, but I hesitated for fear I should'nt ask enough to impress hor. She took my confusion for a reluctauce to sell, and from that moment her mind was mado up. She took a caroless turn around the room, by that time my mind was made up, too. No, no ; I would nt be willing to state the fig. ure we settled on. It was private rates."
"Do you sell many of these old things?"
"The sales are not very large, but the profits are quite fair, quite fair. Antique furniture is our main hold ; it sells right along. It is hard to keep up a really good stock. Here is a fine old set-all malogany. I had to pick that up piece bs piece, and some of it was pretty well smashed up. Yoc see, it is finished in a peculiar style; all the table and chair legs are mounted on a lion's claw holding
a brass bull-haudirons to matoh. It's very raro and valuablo-worth $\$ 1,000$, some call them Hancooks."
"After the Goueral, of coursa-so solid and heavy?"
"Oh, bless yon, uo. Aftor old John Haucook, Govonor of Massachatsette, and signor of the Deolaration of Independence. Thore have been at loast a thousaud sets of that respecable old gentleman's furniture sold here and in Bostun. Mine is tho only original set, and this is why I have taken the liberty to carve a rudimentary H on the the baois of tho roomiost chair. Evory perfect set con. tains the old patriot's favorite ohair. We always put a handsome silk band across the arms because we wish to retain for the purchaser the sole right to sit in it. This fine old pieoo is the ohair known to have been used by Gen. Howe during his somewhat precarious residonce in Boston at the revolutioary period. I have two letters stristly authenticating it. I regret to say, howover, that from the number of Howe ohairs in the market, that officer must have spent most of his time in moving from one chair to another, and done considerable more sitting down than fighting. This one is genuine.
"Cartain lines of revolutionary artioles are always good; people are only too anxious to believe in them. Washing. tons, however, are difficult to sell. The pablic must draw the line somewhere, and its generally at Washingtons and Jeffersons. A dealer spoiled the market for Washingtons. You see he sold a secretary with a contemporary certificate, and some fool held it up to the light and found the water mark to be 1850 . Such manifest rascality injuries business; it wound up the Washingtons, and I had to mark down a Martha Washington ber atead to an Aaron Burr. I did sell a Jefferson hat stand three years ago, but it stretches an honest desier's reputation to make many ancient sales. Mayflowers I cannot conscientiously handle; no amount of swearing will make them go. De Witt Clinton and Hamiltons are all sent to Boston jast now, and they sent us B. Franklins and Adamses, all having ancient cortificates and Boston post-marks -in shurt, the most reliable evidence. Somo of the lettors, you will observe, are pasted under the seat. Here is something from Philadelphia-a ohair which belonged to the honored Penn. See.its strength and capacity-ovidently made to order. Now hore is the original which

Nathau Hnle sat on bofore his ox-"
"I seo. Have you any sale for foroign goods?"
"Yes, but it doesn't do to keep moro than three or four dietinguished forcig̣n nrticlos in sight at a time. Thoro's some furniture our publio cannot awnalow casily. As a rulo, though, it is safo for a dealor to act upon tho principlo that the goods aro as likely to be as authentic as not. If he doesn't know to the contrary, it is fuir to affirm that his articles are what they look to be. Very many buyers, though, don't care for relics; they want respectable old furniture that looks as if it belonged to a wealthy grandmother. Here and there you've got to remark that an artiole was found inwell, almoss in Julius Cresar's garret. I had to sell a Maria Stuart sofa the other day. I had it laid out for a Hannah More, but had to mark it unt to suit.'
"The sourcos of sapply-that is for genaine goods-is getting wasker and weaker. Grand-fathers clocks, for instance, of good style and in fair order are scarce. I sold my last one for $\$ 235$. The oustomer told us plain out that he wanted something that showed 'ancostry,' and we let him have it. The New England States have been travelled through and through for then. Once in a while ove turns up. The old carved bookcases and ohests of drawers, mounted in genuine old-time brass, can be had now and then. Carved oak mantel and chimney pieces, tiles, tapestries, eto., are good when you can get hoh of them. One trouble is growing weaker every year. We cannot $\boldsymbol{q}^{\text {et }}$ anything like full sets. Sometimes we have to wait a year or more before we can decently complete a room. Such collections bring very high prices. I know of one that fetched $\$ 2,200$. Asfor most of the ancient bric-abrac, it should be regarded with suspic10n. Revolutionary teapots were once a leading article on account of the firing of the tes overboard. But I regret to say that the demand was broken up by an uuprincipled dealer whose frauculalent mothods knocked the life out of what was once a very salable article.
"Yes, personal relics are to be had. Genuine ones are rare. There are dealers, though, who will sell you anything you want from a Gen. Patman sword to the bull's-oye zepeater of a delegate to the first Congress. These last articles are known to the trade as 'orphans.'
"Oh, don't speak to me about manufactories of our goods. It is most awful
to think of. Yes, sir, I know two factories where its done. It's an insult to liberty."-Jercelers' Civeular.

## THE BREAKING OF BPRINGS.

Much has been said about the break. ing of springs and their causes, but tho subject remains ever new. A correspondent in a Gorinan neivapaper gives the following viows:
Every watcis spring will fivally arrivo at the poriod when it will break. Repeated concussions will burst a cannon, breali an axlo, and oauso the breakage of a rail. Caused by the unceasiug bending to and fro, of a piece of motal, its cohosinn will be destroyed, and it bursts or breaks. Since from the preceding it oannot be ex. pected that watch spriugs are an excoption, we may only consider what manns will hasten or retard the final breakage. We may specify tho following points:

1. Hardness and quality of the steel ; 2. dimensions (measure) ; 3. treatment; 4. change of temperature ; 5. orystaliza. tion, decarbonization, and electrical in. fluences.
2. Steel is composed of iron and carbon. If we heat it in the fire for the parpose of hardening, the carbon endeavors to dis. engage itself. In this condition we sud denly plunge it into sume cold fluid; the carbon crystalizes, penetratos the iron with its diamond-like molecules, and the steel becomes so hard as to cut glass. This is a practical reasonable theory, and undoubtedly the true one, since the microscope can substantiate it, and we will accept it for waut of a better.
If we temper the steel blue, a retrograde chemical action takes place. The cir cumference of the steel increases a trifle, and it is, ss it were, enveloped in an im. penetralle coating, within which the molecules or atoms arrange themselves. This imparts the elasticity. When this extremely than colored envelope is removed, a part of the elastioity is lost. Hence, a blue spring has more power of tension than a white one.
In accordance with the unequal disposition of the carbon in steel imperfections oan be inherent in the spring, and an undue hardness is produced in any one or more of its parts. Such imperfections may also be engendered by an nn. equal heaung, so as to disturb the local porportions of the carbon. Defects of this arature cannot be detected by the eye, and the watchmaker can only obviate the breakage of springs, due to such bad
lrealmont, by using those of a recogniz ed gcod standard.
3. Ono proportion of spring dimension is yroforable to the other. The use of a b:oad and weak spring is preferablo to that of a narrow and strong, aud by right proportions, the like powor may had.
A thin steol at bending does not suffor a displacomont of its atome as muoh as a thick oue, booanso tive rounded sido of the first is nenror, to its fulorum, or the point around which it bende or moves. A thin prece of glass may be bent, while a thick one shatters with tho least attompt. A recommeadable proportion of the spring would bo a gradual deorease of di mension of ats coils, as they would more concentrically accommodate themselves around the core; this only apphes to movemonts with fuzeo ; the best form for movemonts with toothed barrel is an equal thokness throughout ats entire longth.
4. Whon we wind a spring olose around the core, we obtain more coils tham it has when at rest against tha barrel wall. The difference in the number gives ns the revolutions whuh the spring will make when being wound.

If the space botween spring and core is large, and we made use of its entire power, or, in other words, we do not use a fuzee and stopwork, the elasticity of the spring would be inareased, Blso the danger of breaking, than if less room were at disposal.
The use of the whole uncontined spring power produces friction of its coilings by the tightenal elastcity, destroys the colored lamina of the spring blade, and thus lessens its elasticity, the surface becomes porous, and inclines twa spring to breaking.

Also the same dufect is ofteu produced by too strong . 3 winding of the spring, both in movements with fuzee and in those with toothed barrel and stopwork. This is often done for the purpose of overcoming a oramping or friction in the movement, or some other error, a corsection of whioh is very difficult, and it is sought by this means to conquer it by an increased power of spring; sometimes it is intended to produce the greatest pos. sible balance vibration. This doubtful remedy is oftener the cause of a spring breaking than all thoothers taken together
The following is a right proportion of the spring: 14 coils (never less than 12) must lie within the spring barrel: the empty space between the spring and the
coro must amount to fully ono-third of tho barrel dinnotor, and the core must alwnye monsure ono-third; it should bo fuxeo form, and with tho legianing of the firet innor apring coil, bo a complote oircle, in ordor to impart as conontric a motion as possiblo. A protruding coro hook is to bo avoided, and that of tha barrol must bo kept as low as con. sistent. If all theso conditions are com. plied with, tho syring will make about six rovolutions, if wound up to within $\frac{1}{8}$ or $\frac{7}{4}$ turn, and thoro is obtained for a toothed barrol, making four turna, a apring powor in its bost attainable proportion.

The Fronch pendnlum nookmakers havo the sonsoless habit of making the spriug arbor hook as projooting as possiblo, as if experimonting to find out how much tho spring would rusist. I can oxplain the proportionately fow breakings of sucha springs ouly from the reeson of their grent broadth and thinucss, which also proteots them agninst an undue expansion, oonjointly with tho lubricnting, gum like oil, which protects thour against any injurious effoots of friction in its coils. Finally is the careless treatment and the putting in of the spring with too small a coro often the reason for a subsoquent breaking.
4. If a spring in a barrel with stopwork, without making use of its duty, is wound to its utanost oxpansion, and tho temperaturo would suddenly change from heat to vold, a sudden snapping, owing to the molecular olanggo of the steel, would be inevitable; oven if the spring were not wound to its utmost, a break may easily occur, because the condentation of the stool takee placo suddonly, cousequently a olange in its outside molecular arrangement; it is well kuown that a hot lamp chimnoy will suddenly shattor when exposed to a cold air draught. A breaking of the spriag consequently will ocour most frequently in spring, fall and winter.
5. All metals subjected for auy length of time to tension, crystalize, and oxhibi: an inchuation to return to their previous crude condition. Whon this happens, thoy part with thoir colesion by exhaustion, and a soparation of the molecules takes place sooner or later, in duo ratio with the sum of the tension to which they woro aubjected. Since steel, however, possesses greator cohesion than uearly any other metal, it would rosist this natural law longer, if other powers did not combina to decarbouizo and consequently to ruin it. The main fnctors producing this "olinugo aro heat and electricity.

Ono is pormittod to say heat is olectricity, and elcetricity is hent. Both expressions aro synonymous. All motsls contain latont heat and latont elentricity, which may bo oxcited by anturo, by ohomical influonces, and by friction.
Tho main factor in an oleotrio machino is a glass platn (isolator) on which by friction an olectric ourrent is generated. The samo as produced by the friction of a hand on the watoh orystal. If of stcel, it will bo partly destroyed at the point of contact, betrayod by the rust which is formod at this placo. This rust is gonerated by eleotric heat. Tho friction of tho coils of a watoh spring agninst one another, also ongenders oleutricity, espocially in warm weather, when it is assisted by tho poculinr condition of the air. Tho stecl becomes deoarbonized horoby, and thus is induced tho unsccouninble, mys. torious breakiag of the spring daring hot weather. A balnuce spring hardened in fire suffers by its inclastic condition an inuer friction of its molocules, hence tho tardation of rate during very hot eleotrio weather. Different individuals are better or wor 0 conduotors of electricity, hence tho difference of the rate of ono watch, when worn in succession by different persons. The more humidity a body absorbs, the better a conduator of olectricity it is; wheuce a blue spring with closed parts is not as rood a conductor as a white and porous one.

Galvanism, or Voltaio eletricity, is genorated when two different metals tonch each other, and one is influenceâ by an acid. A brass spring barrel with a steel spring and an oil coutaining anid together constitute a galvanio battory, set into action by heat. The less acid the oil contains, the less is the quautity generated, but sufficient to keep the spring slippory, and the less is the danger that freo galvauism is developed; but the air often furnishes an boid (humidity) cansing the battery 'o become active. Hoat is produced by this, and the metal is ruined. If obronometers and watches did not contain so great an amount of brass, and consequontly so active a conductor of eletricity, radiating atinto space, it would perhaps be diffioult, to even have a time mensure with a balnnce spring. A marine ohronometor is better protected thana watoh, because surrounded by bad condnotors, or guod ssolators; from the moment forward that a watcl taken from a cold room comes in contact with the heat of the body, the electric curreas begins. Springs wrapped with brass
wire and oilod with the common olive oil, becomo so vitreous in ono or two yenrs in tho tropice that thoy break liko g'ass. This is my owa exporienoo.

Those who wish to inform thomselves farther on this point, I would rooommend a study of goncration offriction or galramio electricity by stoam ongunos.-Jewelers' Circular.

## bUSINESS OHANGES FOR APRIL.

1. Taylor, jeweler, Oshawa, Ont., advertising his business for sale; Risden Bros., hardware. St. Thomas, Ont., hava sold out : Johaston Bros., jewclers, Toronto, dissolved, Gco. T. Johnston continues: E. Rousseall, jeweler, London East, Ont. cleared out: Chas. McKenzic \& Co., bardware, Sarnia, Ont., style now Mclienzic, Milne \& Co. Wiberg \& Ashdown, hardware, Stonewall, Man., dissolved. Alf. Ashdow continues alone: $M \mathrm{R}$ Counter, jeweler, Seaforth. Ont., offers business for sale; Wm. Clegg, hardware, Blyth, Ont., sold out to Chas. Hamilton and removed to Brandon, Man.; E. Graver, hardware, Barrie, Ont., advertises business for sale; A. E. Kemp, hardware, Montreal, sold out to M Philbin; L Atkinson, jeweler, New market, Ont., assigned in trust: J. F. Austin, fancy goods, Peterboro, Ont., sold out to C. B. Routley: John Egger, jeweler, Montreal, failed: D\& L McIntyre, hardware, Lucknow, dissolved, David McIntyre continues; Jos. T. Cote. jeweler, Montreal, failed: R. J. Butler, jeweler. Ottawa, Ont., gone to Winnipeg.

## BUSINESS NOTES.

Mr. Henar Smita, of the firm of Smith \& Fudgor, sailed for England ou Tuesday last.
A Soasd joreler, by name of J. B. A. Darche, has left without notifying his creditors or settling his liabilitics, which amount to $\$ 800$ or $\$ 1,000$.
Ma. R. H. Sxitr, the well-known zaw mauafacturer of St. Catharines, on the occasion of his roturn from Maxico, was entertained at a banquet by his employees.

Ma. W. G. B. Lowr, of the firm of Zimmerman, MoNaught \& Lowe, leaves for England and tho European markels in aboat two wouks. His many friends in Canada will widh him bon voyaye and a sale return.

We aro norry to learn that Mr. Culp, wholosalo douler in watoh material in Toronto, was auddenly takon ill last woek and ajrapellod to lay op for a fow days. He is now fully recorered and able to attend to businoss.
Ma. Fnkd. Mfonse, tho well-known omployce of Messra. L. \& M. Samuol \& Benjamin, was prosonted with a handsome gold-headod cano nn tho occasion of his leaping the firm for the purpose of starting basiness in Winnipeg, Man.
A coasparr has beon formod for the parposo of manafacturing !ci - 2otives, railway oars, eto., to bo known as the "Canada Irou Worka Co." with works as Hochelaga aud a capital of $\$ 250,000$. Somo prominent oamos aro attached to tho application for chartor, we notoamong others Mgesre. Jacques Grenier, A. A. Trottier, H. A. Hogel, L. H. Sunecal, A. Davis.

WE BEG TO CALL THE ATTENTION OF THE TRADE to the well known quatity and elegance of finish of our Gold Cases, guaranteed by us to be of eighteen karat Gold, U.S. Mint assay, or of fourteen karat Gold, as may be stamped, and also to our mode of selling the same, charge ing only for the ACTUAL. WEIGHTT of the gold used, and not for the base metal comprised int springs, key pipes, filling of crown, etc. To illustrate which we here show copy of tag accompanying each one of our Gield Cases, which plainly indicates not only the gross weight of the Ciase, but also the NET weight of the gold.


## American Watch Company,

 ROBBINS \& APPLETON,New York, August 1st, 1881.

IN EXPLANATION OF THE ABOVE we desire to say that the old plan of charg. ing for the gross weight of the case, as if it were all gold, worked well enough as long as the manufacturers were content with the amount of brass and steel actually required in its construction; but when the business was degraded into a contest as to who should get the most base metal into the least quantity of gold and call it a GOLD case, then the time came when, in ihe interest of dealers in American Watches, it became necessary to alopt a plan of selling, showing the buyer exactly how much GOLD each Case contained.

In adopting this method we act in conformity wilk the earnest wishes of the leading houses of the Trade, some of whom have already undertaken to carry out the same idea in their own business.

Mr. B. I. Moody, tho woll.known bankrupt stock dealor, Lume ontored an actlon against ono of the Winnipeg papera for alloged libel in rofer. enco to tho Marcotito aflair. 'Tho libel appoars to consiat in tho fact that the papor in quostion publinhod Marcotto's contcesion willout com. mont.
Tar vidow of tho lato Mr. Heary Mulholland, formarly a member of tho insolvent hardwaro and iron frm of Mullholland \& Baker, lase presoutod a potition to tho Insolvent Court elaiming 305,000 out of tho real entato of her husband under some old law, which it appears is atill in force.
We had a call a fow days ago from Mr. A. W. Thormpson of Princo Arthur's Landing and Win. nipeg. Ho roporta prospecta for businces good in both placos aud thinks that whon tho C. P. B. La fairly rumning botween Princo Arthur's Landing and Winnipeg it will mako thinge hum in the fosmor plico. Wo think ho is right.
We had tho plosauro of a jisita fer days ago from Mr. Daniol Storn, managor of tho Now York office of tho Chicago Watchmaker and Netal. worker. Mr. Stern's visilit to Toronto mas a mixturo of businces and pleasuro, and the oxpressed himeolf as being highly picasod with the appearnnco of tho "Queen City of tho Wert."

Ma. M. Ih. Countri, jowclor, ol Sealorth, Unt., is gaing to sell his business and purposes remor. ing to Portago la Prairic, Manitoba. Mr. Counter has a ano trado and one of the handsomest and boat fitted up jowelry atoros in Canada, and any porson with capital in want of a good opening in his lino would do well to parchase his business. Wo winh him sucoses in his new bomo.
Joum Eoorn, a amall jowelor in Sfontrenl, has failal owing to au accumulation of troubles. A partaor ho had who left him in January was a source of lose to him, sinco then he has boon burnt out, kuas he had only paid hall his insuranco promiam tho insuranco company refuses to setlle his claim. The landlord has soized the litto balance of stook for rent, and ho talks of calling his creditors together to seo if some steps cannot bo taken to reoorer his insurance.
Mr. Jaxes Monentbos, of Montreal, ia about to ostablish a branch of his lead and saw business at Winnipeg, whero ho bas purchased a suitablo lot aud will procced to build business premises. Mr. Robertson already has branolies in Torontc and St. John, N. B., in Canada, as well as one in tho United States at Baltimore. Mr. Jamea Teea will have the management of the Winnipeg branch.

Ir is reported that the Minister of Customs is about to appoint a staff of speoinl agents over the Ironticr and keep watch for omuggling operators who bring in contraband joselry and othergoods onsily imported. Theso men will be muchliko the present Anuerican Customs agenta, and are expected to bo rery efficient. It is not stated how they aro to bo paid, but they aro expected to rork on commission.

Tax Imperial Bank of Canada has opened branch offices at Winnipeg and Brandon. An ageney has aleo been established at Portago la Penitic. It is also tho intontion of the Bank of Nora Scotia to ahare in the business of the North Wost. 3: E. H. Taylor har becaned offir sin the Jundeo block, Finnipeg, and will harg charge
of this bank thore, wo aro told. Thiso Merchants Bank of Cauada opronod an oflea in Brandon a short timo ago. It hat been frovioualy repre. sontod in Winnipog and Emerbon.

Tase winding up of the ingolvont estatoci Dala Torro \& Co., carrying on buninosa in this dity and Nontrenl, furnisbes anothor oxample of tho way in thich ansets may be logally caton np. Tho Hiabilitics of this concorg wero $\$ 20.445$, and tho total proccois realizul from tho salo of stock, oto., nmounted to \$3, Of this aum Lamyors' fecs wero s058, Assifnoo's and Insportor's claims reaohed tho aum of 0504 , or together about forty porcont. of tho total recoipts. Aftor all other exponses aro pqid tho croditors will havo tho pleasure of roofiving just two conts on overy dol. lar of liabilitice, or in all $\$ 408$.
The failury of L. Alkingon, jowcler, of Nowmarkot, is another oxample of tho reckless way in which opedit is givon in this conntry. Mr. Atkinson commenced business a few yeara ago wilhout opital, and by lard wark got a foot-hold and begfo to accumulato stook. With inereased stock camo iucreascd credit, increased bufiness and infreasod exponses, and, as if to crewn tho wholo, ho launched out into building a briok dwaling altogether too high-priced for his means. The result of this way of doing business could onlf haye ono termination, and that to call a mecting of his croditors and nak for thoir for. begaranco. This ho did last Thareday.
Mr. Clanles Ellis, represonting the firm of P. W. Ellis \& Co., met with what might have beon a fatal accident aboat theo wecks ago at London station by jumping from an express while going at full speed. Charloy says ho hardly knows how it happened, but he thinks that ho turued at least filty summersaults before ho finally camo to a fall atop. Ho was stanned for a time buthonoon pulled bimself together and finished up tho busincess which excited him to make his dyivg lesp; he has, howaver, been con. find to his house ever since on account of the bruises he then received. This practice of jump. ing off trains in motion is a most dangerous one, and if any person who mants to know all about it will apply to Cbarles thoy will got somo good advico on the subject. Ho saje bo is done with that kind of performance for the future, and thinks ho'll dio soon enough without any effort at sui. cido in that direction.
Tur many friends of Mr J.W. Jackson, jeweler of St. Catharines, Ont., will bo pleased to learn that the U. S authoritics have houorably acquitted him of the chargo of bigamy preferred againat him No one who knew him would for amoment belicrs that there was any truth in the charge, still it is gratifying for Mr. Jackson to know that his honor has heen so amply rindicated. Tho onls pity is thas no should haro been compellod to loso time and monos in refuting a charge eridontly preferred for blackloailing parposes. Tho folloring is a copy of the official decision in the caso:-

## " Stafe of New Yonk, Countr or Inscony

The Pcoplo va. James WV. Jackson-There being no sudicicut canse to b-liero the within named James W. Jackson puilty of tho offenco within mextioned, I order him to ba discharged. Sigaed
H. H. Sheldon,

Juatice of the Peace."

Ws hava recaived a long communication from Mr. A. Bruwnloy of Allsa Craig, in roferenco to a paragraph which appeared in our businoss nutes of last issuo, regarding a oluargo of seduction proferred againat him hy cortain partios residing in his r'jinity. Mr. Brownlog's lettor, whilo ovidently not istonded for publination, is an ox. pllait denial of tho diargos proforrod againat him. and, as wo said in our formor noto regarding this caso wo must declino to beliovo him gailty until ho has been oloarly proven to bo so. Brr. Browuloysays that the wholo atory has boun trumped up with tho dosiro to ruin his reputation and businces, but that it has failod to effoct its object. As wo said before wo onn scarocily beliove that a man, who for forty yeurs has borne an un. blemishod roputation, shoult suddenly have bocome tho unprincipled villain his traducors seok to mako him out, and wo think that tho public will be justifiod in holding him ontirely innocent of the foni charge until kis accusors have estab. liahed its truth besond a peradrentare.

Deatif or Mb. Marcus Robsin.-Last mail brought intolligonce of tho death of Mr. Marcus Rousin, formerly a woll-known and catoomod residout of this city, whilo on his way to Maynnco to visit his daughter. Mr. Eleeman, on eutering tho train at Frankfort, found Mr. Rossin apparently asloep, with his book dropped on the floor. Mr. Rossin camo to Canada in 1810, and aftor opening businoss in Kingaton, romored with his two brothess to Toronto. Heroundor skilliul ard onergetio management they built up a fine business, and ultimately openod a branch house in Mfontroal. In 1851 Mr . Rossin assiated in the organization of the Western Fire Insuranco Com. pany, and was ono of the earliegt directors. In 1851 ho and his brother Samuel evidenced their publio spirit by building what was then so greatls needed in this city, areally first-class hotel, which is known to this day by their name. After a whilo the Mesers. Mossin transferred thoir business to tho late Mr. Robert Wilkes, who had learnod his business in their warohouso. In 1805 Mr. Rossin decided to remove to Hamburg with his family, where he has since lived in ratiroment. Ho leaves a widow and two children, Canadians, both of whom have marriod and are well settled in Germany. The annsuncement of his death will bo read with regret by his old frieuds in Toronto.
Our csteemed fsiend, Mrr. Donald D. Manscn, formeriy of Toronto, but at present representing the Waltham Watch Co. in Australis and New Zealand, has lately been distinguishing himself by exploring a la Stanley, his feat concisting in making the ascent of the active volcano of Tongariro in Now Zealand. This is the first instance in thich the native Naoris have orer allowed any whito man to ascend this mountain which they have hitherto regarded as ancred. On making the ascent, when at an altitude of 2,500 ft., it rained beavily, and was blowing a heary galo from the south-west. On reaching a farther altitade of $\mathbf{b . 0 0 0 ~ f t . ~ a ~ v i o l e n t ~ h a i l ~ s t o r m ~ w a s ~ o x - ~}$ parienced, and at $7,000 \mathrm{ft}$. it snowed heavily, and at the samo timo tho wind was so violent that the party were compelled to throw themselves on the snow so as to prevent their being blown ofl their feet. Brr. Manson describes the crater as being about three-quarters of a mile in circumferenco, with a cavo in the centre which was continually throwing boiling mud to the height of about 500

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It is full of original information and thorough practical instruction contributed by the leading writers on the various subjects connected with the above trades. The text is well illu.atrated by wood.cuts, and two supplements of artistic designs for jewellery, etc. accompany eoch number.

This important Trade Organ, now in its seventh year of publication is in the hands of every British Watchmaker, Jeweller and Silversmith, and is therefore a most valuable medium for manufacturers requiring publicity in Great Britain.
Our list of permanent contributors includes such names as: J. U. Poole, R:chard Whittaker, Henry Ganney, Moritz Grassmann, J. Herrmann, E. J Watherston. W. H. Singer, an ample guarantee for the sterling value of the journal. Subscription ss. per annum.
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fect. The inside of the crater was atudued with numerous blow-holes, aud a slight tromor of the ground was occasionally felt. As it was too lato to return Mr. Nanson wab corapelled to remain on the movitain all night without food or blan. kots and with very little clothing. Tho cold was intense, the thermometer registering several do. grees below zero About 2 a.m. the wind abated and the moon rose, when a really magnificent sight was witnessed by Mr Mansun and the, guides The nphenval of mud in the crater and tho hissing noises all about arodescriber by the party as being the most weird-like that could be imagiued. At daylight Mount Egmont could bo plainly secn snow-capped Tho ascent and decent, with the time Mr. Mauson spent in the crater, occupied 21 hours. Ho has already mado the ascent of the principlo mountains in tho world, includiug Kilawea, in tho Sandwich Is. lands, and lie says that Tangario far surpasses anything ho las yet seen in its grandness and weird-liko formation.

## WORKSEOP NOTES.

Hows a cold chisel firmly to its cat without removing it at orery blow. This will increase tho offectireness of the tool, and there will be less danger of beaking by a foul blow.
To fit a koy: Smoko tho blank ovar a candle, insert it in the keyhole and press it hard against the werds of the lock. The indentations in the smoked portions will show whero to file.

A connespondentr of the Hechanical Engineer aay6: "Il any of your readers havo occasion to weld cast stel let them try spent lime, air slacked nod uso it just the same as borax; thoy will find it will answer quito as well and cost cothing.

Croctale stoel is mado by melting iu a cruciblo either blister steel, or Wister steol and wroughtiron, or wrought iron and charcoal, or wrought iron and scmp sted, or, in short, a great varicty of mixtures, which depend on tho quality of atecl to bo produced.
Rost may ofton be remorad from stoel tools by immersing them in kerosene oil for a fow dass. This loosens the rust so that it may bo rabbed ofl. Where the rust is not very deep seated emery paper will do, but it of loug stauding the tools must be relinishod.

If has boen proved by Mr. Waito's experiments that a highly polished bearing is moro liablo to friction than a suriaco finely lined by filing Tho lines left by tho gilo serve as resorvoirs for tho oil, while the hight polish leares no room for the particles beimean the metal surfaces.

Tre simplest and cleanest substanco for clean. iug siltar articles is, acconding to Prolessor Davenport, hyposulphito of soda. It acts quick15, and is inerpensire. A rag or brush, moistcucd with a satarated solution of the salt will cleanse eren strongly oxodized silver sarfaces in a Ien secouds, without tho application of any polishing porder.

To seep machinery Ironi rusting, take ono-hall ounce of camphor, dissolvo in ono ponnd of mell. od lard, tato off tho scam and mix in as much Gno black lead as will givo it an iron color. Clean thu machincry and smear with this mix-
ture. After twenty four hours rub olean with a soft linon cloth. It will keop clean for months under ordinary ciroumstances.
To hardon steel take tro teaspoonfuls of water, ono-Lulf teaspoonful of floar and ouo of salt. Heat the stecl enough to coat it with the pasto by immersing it in the composition, after which heat it to a cherry red and plunge it into soft water. If proporly dono, the stecl will come ont with a beautiful white surface. Stub's files are enid to bo hardened in this manner.
$\triangle$ Brilliant black is produced on ifon and steel by applying, with a fine hair brush, a mirture of lurpentive and sulphur boiled together. When the turpentine ovaporates, thero remaing on the metal a thin lair of sulphur, which unites closely with the iron when heated for a time over a spirit or gas flamo. This varnisì protects the metal parfectly, and is quite durable.
Tue mode cmployed in blueing steol is merely to subject it to heat. The dark blue is produced at a tomporature of $600^{\circ}$. The stoel must bo fincly polished on its surface, aud then exposed to a unilorm degree of heat. There are various ways of heating the article, c. g., over a flame producing uo soot, by a hat iron or other heated metal, and by means of wood ashes. A very regular degree of heat is necessary, and wood ashes are often used for fino mork.

## SOIENOE NOTES.

Suens steel is mado by taking a high heat on blistar steel and hammering it thoronglly. Doublo shcar stecl is made by cutting ap shear steel. piling it, heating it, then hammering again. Tho best shear stecl is made from the best nrought iron. The shear stecls are very uselul on accouni oi their toughness and the case with which they cin bs mielded to inon, $a=d$, when of good quality and well worked, they will hold a very fino edge.
$\Delta$ sorel pair of scissors has been devisod by Herr Siesert of Dresden. The blades are represented by two circular steel linives, which slightly orerlap at the edges, and are pressed togother by two spiral springs. The knives aro lastened to a pair of rooden rollers with India rabber rims, which grip and guide the cluth or paper as it passes between the bnives, so that the latter mey cut straight. These cutters are carriod by two handles or levers which are held in haud, and the cutting is ciecter by pasking the scissors formard, so as to causo the rollers to rurolve.

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