## HASZARD'S GAZETTIE, FEBRUARY 9.

## (From the Scientific American

tin and its uses.
Every child in the land knows what tin-ware is, but the number of persous who have even seen a piece of pure tin, or are acquainted with its nature and various uses is not large. "in or "stannum" is one of the ancient metals, and was known to the old Egyptians and Hebrews. It is found in the state of an oxyde in various Indian Archipelago, but most abundantly in Cornwall, from which place it was obtained by the Phœnicians, when Tyre was mistress of the seas, and before Britain bore the impress of the Roman's heel. As a metal it has a white brilliant appearance, is very malleable, emits a crackling sound when bent, a peculiar odor when rubbed, and when cooled slowly from a molten state, it crystallizes. The tin-stone of Cornwall is found in veins associated with copper ore, in granite and slate rocks, hence it is called " mine tin.". The oxyde of tin is also disseminated through the rocks in small crystals; and in alluvial deposits it is found mixed with rounded pebbles, and is called stream in. Wh is treated with sulphuric acid, which dissolves the copper, but not the tin. After it is washed, the ore-then called "block tin"- is ready for smelting. The common method of smeiting being mixed with powdered anthracite of charcoal When very pure metal is required, the smelting or reducing is conducted in a small blast furnace, powdered charcoal being used to mix with the ore, also a very small quantity of lime as a flux. After the first smelting of the ore, it generally requires two other smelting operations to purify it for use. All these demand great care and experience to conduct them economically. The
refined and purest tin is that which is used in the manurefined and purest tin is that which is used inis purpose in facture of tin plate, the tin being used for this purpose in like dipping thin boards of wood into lquid varnish. The metal plates for tinning are made of the best charcoa! iron. All the oxyde is first removed from them, then they are scoured bright, and kept in soft water ready to be dipped in the molten tin. The tin is melted in an iron pot over a fire, and its surface is covered with about four inches of molten tallow. The prepared plates are di, ped in this, and left to steep for an hour or more, when they are lifted out with tongs, and placed on a rock The plates generally have a surplus quantity of tin adhering to them when taken out of the first pot; this is removed by dipping them into a pot of molteul tallow and hrushing. Great care and experience are required in
all these manipulations in order to cover the plate all these manipulations in order to cover the plates
smoothly, and not have too thick or too thin a coating of tin. The covering of such an oxydizable metal as iron with tin, like a varnish, is one of the most usefu qualities which this metal possesses, and renders it better adapted for making various vessels, such as our com mon tinware, than any other metal. Nails, bridie bits, and many small articles of iron may pe covered with tin by first scouring them to remove the oxyde, then dipping them into the molten tin
The metal is so ductile, that it can be rolled ont into
sheets of tin-foil as thin as writing paper. It is now sheets of tin-foil as thin as writing paper. It is now much used for covering tobaceo, for coarse gilding, for zing powders.
zing powders. Peroxyde of tin is used by jewellers as a polishing material; and fused with glass it forms a white opaque enamel. It is much used mixed with copper, to form various useful alloys of metal, such as gun-metal, the specula for telescopes, the bearings for shaffing, the bronze of statues, and was used by the ancients for swords, spears, and armor; and it is said, these were
tempered by a process now lost to the arts. tempered by a process now lost to the arts.
Block tin is struck by dies into various vessels for drinking, such as cups, tea and coffee pots, and mixed with a little copper to give it hardness, it forms the beansolved in acids such as nitric and muriatic, and forms a solved in acids, such as nitric and muriatic, and forms a printed on calicoes, and those dyed on wool and silk The uses of tin are more various than those of any other metal, and it possesses very valuable properties. En gland is the greatest tin-producing country on the globe. She possesses the most abundant natural sources of thi metal, and has iong been the tin-plate manufacturer in the world. The produce of the metal in Cornwall
about 10,719 tons per annum, but it is used for so many about 10,719 tons per annum, but it is used for so many purposes, that it is the source of a vast amount of wealth to Great. Britain. We cover our houses with tin plate and we manufacture vast quantities of it into vessels on every description for de beds of copper and lead; we have tains, and innumerabie bedsof copper and coad, we have the greatest coal in our hills and valleys. No country exists abundanuy in our nich in useful minerals, but as yet no rich deposit of tirihave been discovered." We have some faith in the of tin have been metal'in our rocks' and that it will ye
be obtained in considerable-quantities. We hope that more attention will be devoted to prospeeting for it, as
is more valuable than copper, and far more useful. We pay $\$ 4,709,000$ annually for tin plate and sh $\$ 23,000$ for tin foil ; $\$ 724,000$ for tin in pigs and ba r and $\$ 44,000$ for unspecified tin manufactures.

A gentleman calling one morning on a female friend was answered by a country servant boy, that she was no ing a card. "Shall I go up and give it to her now, sir ?" said the boy."

Shall I go up and give it to her now, sir ?"

Disctintness or Dress.-The meeting of two gentlenen in a theatre lobby is a happy illustration of the conusion a similarity of dress occasions. Coming from difother with, "Pray, are you the box-keeper ?" "No," replied the other ; "are jou?"

An American who can recently returned from Europe told his friend, that he had been presented at the cour Well, " Did you see the queen there ?" asked one. Weil, no, I didn't see her 'zacly, but I seed one of he Friends-a judge yer see," he continued," the Court was presented at happened to be the Central Criminal

The New York Dutchman says, that whoever wishe get along in this world has only to take a few lessons of hen chasing a grasshopper. With a long neek and sharp aye, take a lew hurried steps, stop short, peep over, peep under, now to the left, now to the right, one flutter and a rush, and then you have him. That's the way it's done.
Creosote for Warts. Dr. Rainey, of St. Thomas' Hospital, London, has written an article to the Lancet, detailing the effects of creosote applied to warts. He applied it,freely to an obstinate warty ex rescence on he finger, then covered it over with a piece of sticking plaster. This course he pursued every three days for
two weeks, when the wart was found to have disappeared leaving the part beneath it quite to have disap$i 3$ certainly a remedy which can be easily applied by any person.

Hosse Flesh as Food. The editor of the Union Medicale gives an amusing account of a dinner to Renault, Director of the great Veterinary School Alfort. The object proposed was a comparative test of the qualities of beef and horse flesh. The horse flesh was obtained from a fat animal twenty-three years of age. The editor speaks in glowing terms of horse-flesh soup, and it may be said, that a new article of food
has been added to the French Service. The Tartar tribes has been added to the French Service. The Tartar tribes
eat horse flesh; the French are learning to be as civilized.

Hinpoo Widows.-A bill is at present before the Legislative Council to enable Hindoo widows to marry
without sacrificing their rights, and for legitimating without sacrificing their rights, and for legitimating
their children, who, in the eye of the English law, are their children, who, in the eye of the English law, are
at present considered bastards. At present a poor girl, a present considered bastards. At present a poor giri, before having seen her husband, and for the rest of her er hair not only condemned to celibacy, but to shery er hair immediately is cut off, she is stripped of her ing drudgery about the house. The proposed law, which purely permissive, and may be taken advantage of or eglected, as is thought fit, has been petitioned against by considerable body of the wealthiest Hindoos in Calcuta, on the ground, that as practices prevailed amongst hem three thousand years ago, such as cannibals might blush for, they ought still to be protected and perseverdin. The Hindons of Bombay, in a spirit more befit ing the age in which they live, and the character for good sasse they have acquired, are now petitioning for
the passing of the law, which we hope will be given effect to, without loss of time.

The Russian war is, by the lower classes in Austria considered the cause of the unusual severity of the weather, and in support of thissingular opinion, the following nown in that country were that of 1799 and 1800 Russian campaign under 'Suwaroff); that of 1812 Moscow
winter.

Alexandria and Cairo tow communicate with each
ther by railiway and electric, telegraph, By the
ormer, the distance is eight hours.

If they Dont Run, Kiss ' sm.-At Boulogre, daring the reception of Queen Victoria, a number of English Ladies, in their anxiety to see everything were keeping the line, that the soldiers, who were keeping the line, that the latter were in some instances obliged to give way, and generally were, to use the expression of our policemen, "mpeded in he execution of their duty. The officer in com mand, seeing the state of affairs, shouted out-
"One roll of the drum ; then, if they don't keep back, kiss them all."
At the first sound
At the first sound of the parchment, the English ladies took to flight. "If they had been French, say Parisian journalist, "they would bave remained to
woman."

Upriart Men.-We love upright men. $P$ them this way and the other, and they only bendThey never break. Trip them down, and in a trice they are on their feet again. Bury them in the mud, and in a hour they would be out and bright. You cannot keep them down, you cannot destroy them.
They are the salt of the earth. Who but they start They are the salt of the earth. Who but they start any noble project? They build our cities, whiten we ocean with their sails, and blacken the heavens
with the smoke of their cars. Look to them, young with the smoke of their cars. Look to them, young men, and catch the spark of their energy.
Keer Some Objbct in View.-Every man, rich or poor, ought to have some absorbing purpose;
some active engagement, to which his main energies some active engagement, to which his main energies
are devoted. Not enjoyment, but duty, daily duty, are devoted. Not enjoyment, but duty, daily duty,
must be the aim of each life. No man has a right nust be the aim of each life. No man has a right to live upon this fair earth, to breathe its air, to con-
sume its food. to enjoy the beauties, producing nosume its food. to enjoy the beauties, producing no-
thing in return. He has no right to enjoy the blessings of civilization, of society, and of civil liberty, with out contributing earnest and self-denying labour of Cead, or heart, or hand, to the weifare of mankind. Certainly no man can be really and truly religious. ing exertion, the great object of life ; and seifdenying exertion, the great object or ine ; and the idler puts pleasure exactly in the place of duty. This produce daly admiled, however mamilested, will roughly abandoned. Every bodily appetite thoroughly abandoned. Every bodily appetite, every mental fancy, every momentary fasion, will clamour
till indulged. The body will be pampered, appetite lead on to gluttony, wine to drunkenness, luxury to every evil indulgence, while the mind, excited only by novelties and enfeebled by the lack of continual exertion, sinks into utter vapidity and uselessness.
"Can you let me have twenty dollars this morning to purchase a bonnet, my dear ?" said a lady to her husband one morning at breakfast.
"By-and-by, my love.
I hat's what you always say my dear, but how The husband handed over. money ?

Kgep the Movth Shut durivg Coll Weather. In the Journal of Health, Dr. Hall advises every persou who goes out in the open air from a warm apartment to keep the mouth shut while walking or
riding. He says: riding. He says
"Before you leave the room, bundle up wellgloves, cloak, comforter-shat your mouth before you open the street door, and keep it resolutely closed until you have walked briskly for some ten minuites; then, if you keep on walking, or have reach-
ed your home, you may talk as much as you please. ed your home, you may talk as much as you please.
Not so doing, many a heart, once happy and young Not so doing, many a heart, once happy and young
now lies in the church-yard, that might have been now lies in he church-yard, that might have been
young and happy still. But how? If you keep your mouth closed and walk rapidly, the air can only your mouth closed and waik rapidly, the air can only
reach the lungs by a circuit of the nose and head, reach becomes warmed before reaching the lungs, thus cansing no deraugement; but if you converse, large drafts of cold air dash directly in upon the lungs, chilling the whole frame almost instantly. The brisk walking throws the blood to the surface of the cold impossible, if a vigorous circuiation, waking oo quick after you get home. Neglect of these bring sickness and premature death to multitudes every year:"
A good newspaper is like a sensible and soundhearted friend, whose appearance on one's threshold gladdens the mind 'w
and profitable hour.

