(From the Scientific American TIN AND ITS USES.

Every child in the land knows what tin-ware is, but the number of persons who have even seen a piece of pure tin, or are acquainted with its nature and various uses is not large. Tin 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 countries-Spain, Hungary, South America, and the 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 pebble and is called "stream tin." When tin ore is mixed with copper—after being roasted—it 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 smelting the ore is in a reverberatory furnace with coal, the ore being mixed with powdered anthracite or 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 manufacture of tin plate, the tin being used for this purpose in a molten state, and thin plates of iron dipped into it, just like dipping thin boards of wood into lquid varnish. The metal plates for tinning are made of the best charcoal 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 diped 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 molten tallow and brushing. Great care and experience are required in all these manipulations in order to cover the plates smoothly, and not have too thick or too thin a coating The covering of such an oxydizable metal as iron with tin, like a varnish, is one of the most useful qualities which this metal possesses, and renders it bet-ter adapted for making various vessels, such as our com-mon tinware, than any other metal. Nails, bridle bits, ter adapted for making various vessels, such as our common tinware, than any other metal. Nails, bridle bits, and many small articles of iron may pe covered with tin by first scouring them to remove the oxyde, then dipping eat horse flesh; the French Service. The Tartar tribes eat horse flesh; the French are learning to be as civim into the molten tin.

The metal is so ductile, that it can be rolled out into sheets of tin-foil as thin as writing paper. It is now much used for covering tobacco, for coarse gilding, for what is called "silvering looking glasses," and for bron-

zing powders. eroxyde of tin is used by jewellers as a polishing ma terial; 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 shafting, 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.

Block tin is struck by dies into various vessels for drinking such as cure the and coffice rote and priced.

drinking, such as cups, tea and coffee pots, and mixed with a little copper to give it hardness, it forms the beautiful "Britannia ware." In the chemical arts, tin is dissolved in acids, such as nitric and muriatic, and forms a common mordaut for some of the most brilliant colors printed on calicoes, and those dyed on wool and silk. The uses of tin are more various than those of any other She possesses the most abundant natural sources of this metal, and has long been the tin-plate manufacturer of the world. The produce of the metal in Cornwall is es the most abundant natural sources of this 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 of and we manufacture vast quantities of it into vessels of every description for domestic use. We have iron mountains, and innumerable beds of copper and lead; we have the greatest coal fields on this globe, and gold and silver exists abundantly in our hills and valleys. No country is so rich in useful minerals, but as yet no rich deposits of tin have been discovered. We have some faith in the existence of this metal in our rocks' and that it will yet

be obtained in considerable quantities. We hope that more attention will be devoted to prospecting for it, as it is more valuable than copper, and far more useful.

We pay \$4,709,000 annually for tin plate and sheets;
\$23,000 for tin foil; \$724,000 for tin in pigs and bars,

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 not at home. "Thank you to give her this," said he, handing a card. "Shall I go up and give it to her now, sir?" said the boy."

DISCTINTNESS OF DRESS .- The meeting of two gentlenen in a theatre lobby is a happy illustration of the confusion a similarity of dress occasions. Coming from different points, each in a great hurry, one addressed the other with, "Pray, are you the box-keeper?" "No," replied the other ; " are you?"

An American who can recently returned from Europe told his friend, that he had been presented at the court cannot keep them down, you cannot destroy them. there. "Did you see the queen there?" asked one. "They are the salt of the earth. Who but they start there. "Did you see the queen there?" asked one. "They are the salt of the earth. Who but they start Well, no, I didn't see her 'zacly, but I seed one of her any noble project? They build our cities, whiten friends—a judge yer see," he continued," the Court I the ocean with their sails, and blacken the heavens was presented at happened to be the Central Criminal with the smoke of their cars. Look to them, young

THE New York Dutchman says, that whoever wisher to get along in this world has only to take a few lessons of a hen chasing a grasshopper. With a long neck and sharp eye, take a few hurried steps, stop short, peep over, peep are devoted. Not enjoyment, but duty, daily duty, under, now to the left, now to the right, one flutter and must be the aim of each life. No man has a right a rush, and then you have him. That's the way it's done

the 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 healthy.—This is certainly a remedy which can be easily applied by any

Horse Flesh as Food. The editor of the Union Medicale gives an amusing account of a dinner to which he was recently invited in Paris, invited by M. Renault, Director of the great Veterinary School at 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 the distortion of the Union to dinner to which he was recently invited in Paris, invited by M. Renault, Director of the great Veterinary School at the distortion of character, until thoroughly abandoned. Every bodily appetite, every mental fancy, every momentary fashion, 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 exerction, sinks into utter vapidity and uselessness.

HINDOO WIDOWS .- A bill is at present before the Legislative Council to enable Hindoo widows to marry without sacrificing their rights, and for legitimating their children, who, in the eye of the English law, are at present considered bastards. At present a poor girl, scarcely released from the nursery, may become a widow before having seen her husband, and for the rest of her days is not only condemned to celibacy, but to slavery. Her hair immediately is cut off, she is stripped of her ornaments, and condemned to perform the most degrading drudgery about the house. The proposed law, which is purely permissive, and may be taken advantage of or neglected, as is thought fit, has been petitioned against by a considerable body of the wealthiest Hindoos in Calcut
out the graved that as practical proposed. ta, on the ground, that as practices prevailed amongst them three thousand years ago, such as cannibals might blush for, they ought still to be protected and persevered in. The Hindoos of Bombay, in a spirit more befitting the age in which they live, and the character for your mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly, the air can only gour mouth closed and walk rapidly. 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.

> The Russian war is, by the lower classes in Austria, considered the cause of the unusual severity of the weaconsidered the cause of the unusual severity of the wea-ther, and in support of this singular opinion, the following facts are adduced.—Almost the coldest winters ever known in that country were that of 1799 and 1800 (Russian campaign under Suwaroff); that of 1812 (Moscow): that of 1830 (Poland); and the present winter.

IF THEY DONT RUN, KISS 'EM .- At Boulogre, during the reception of Queen Victoria, a num of English Ladies, in their anxiety to see everything of English Ladies, in their anxiety to see everything pressed with such force against 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, "impeded in the execution of their duty." The officer in command, seeing the state of affairs, shouted out—
"One roll of the drum; then, if they don't keep back, kinst them all."

back, kiss them all."

At the first sound of the parchment, the English ladies took to flight. "If they had been French, says a Parisian journalist, "they would have remained to a woman.

UPRIGHT MEN.—We love upright men. Pull them this way and the other, and they only bend—they 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 men, and catch the spark of their energy.

KEEP SOME OBJECT IN VIEW .- Every man, rich to live upon this fair earth, to breathe its air, to consume its food, to enjoy the beauties, producing no-CREOSOTE FOR WARTS. Dr. Rainey, of St. Thomas' thing in return. He has no right to enjoy the bless-thing in return. Certainly no man can be really and truly religious. who makes gratification, as distinct from selfdeny-

ing to purchase a bonnet, my dear?" said a lady to her husband one morning at breakfast. "By-and-by, my love."

"That's what you always say my dear, but how can I buy and buy without the money?"

The husband handed over.

KEEP THE MOUTH SHUT DURING COLD WEATHER. In the Journal of Health, Dr. Hall advises every person who goes out in the open air from a warm apartment to keep the mouth shut while walking or

ed your home, you may talk as much as you please. 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

Alexandria and Cairo now communicate with each hearted friend, whose appearance on one's threshold other by railway and electric telegraph. By the gladdens the mind with the promise of a pleasant former, the distance is eight hours.

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