SCIENTIFIC SCRAPS.

Modern warfare now calls for small-bore rifles, having an initial velocity of 2000 feet per second.

The swan is the longest-lived bird, and it is asserted that it has reached the age of three hundred years.

A French scientist, who has been studying the hands of manual laborers, finds that very marked physical peculiarities are engendered by the pursuit of different occupations.

It is now proposed to bleach and purify by electricity not only cotton-seed and other oils, but drinking water, the current acting upon common salt, from which it evolves chlorine.

No animal can see in the dark. Some have eyes extremely sensitive to light of low intensity. Such can see in places which we pronounce dark, but there must be some light present.

During the last ten years an oculist of Cronstadt, Russia, is said to have treated thirty cases of photo-electric opthalmia, a new disease, due to the action of the electric light on the eyes.

Professor Polansky and Dr. Schindelka of the Vienna Veterinary School have constructed a laryngoscope for horses, by means of which active treatment in cases of glanders can be carried out.

From some observations recorded by H. L. Russel, it appears that, as a general rule, the temperature of the interior of a tree is somewhat higher than that of the air, except during the warmer parts of the day.

A new system of telegraph has a sending instrument with ten keys, each of which makes one of the straight or curved lines used in Roman letters. It is claimed to have sent a seventy-six-word message in twenty-five seconds and printed them in plain Roman characters.

Letters published in the Peruvian papers declare that the juice of the "maguey" plant is a certain cure for hydrophobia, and that it has always been used in the department of Anachs to cure all sufferings from bites.

The French Academy of Science has discovered by experiment that each human body is in itself an electric battery, one electrode being represented by the head and the other by the feet. Therefore it is the proper thing to sleep with one's head to the north and feet to the south.

Aluminium (99 per cent. pure) is now quoted at $4 a pound. It is not very long since it was $11. Just what it costs to make has not yet been disclosed, but there is reason to believe that if the price should run down to $1, there would still be a manufacturer's profit.

The perfect combustion of coal seems to have been effected by William Gibbs of Essex, England. By means of a fan and suitable openings, the exact quantity of air necessary is supplied to the furnace chambers, and the products of combustion issue as hot air, free from smoke or odor.

At the recent banquet tendered to the Pan-American delegates while in Chicago, many novel features in incandescent lighting were displayed, among which was a miniature railway train, consisting of an engine and four coaches, lighted throughout with tiny incandescent lamps. Then came a full-rigged ship, made of flowers, and sailing in a sea of roses, with a floral lighthouse in the distance, while tiny lamps placed at various points produced an effect that was most pleasant to witness.

A Lively Kind of Stick.

John Hall of Hopkinsville was out on a hunting excursion yesterday, when he attempted to cross Pond River, which was so badly swollen he stooped to gather up a stick to measure the depth of the water. He suddenly became aware that he had grasped a large black snake instead of a stick, and ere he could drop the serpent it struck at him, and only his presence of mind saved him from being bitten. After a sharp battle he killed the snake and brought it home with him. It is nearly a yard in length.—*Nashville American.*

The Torture of Horses.

Professor Fiomers, in a lecture before the Royal Institution, London, asserted that there was more cruelty daily perpetrated in London, New York, Paris and other great cities, through the use of the bearing rein, than resulted from vivisection and all the other experiments of scientific men put together.

SCIENTIFIC AND INDUSTRIAL.

A jeweler in the West constructed a clock which will run 489 days without winding a second time.

Herr Weigert, a member of a firm of Berlin bankers, has been given a patent for the production of electric light without either dynamos or accumulators.

Glory awaits the first amateur photographer who will take a picture of globular lightning, a phenomenon known to occur, but of which no trustworthy evidence exists.

It takes but a small quantity of non-transparent matter to produce the dimming effect of haze. If the eye can observe the color produced in a drop of water by the fifty-millionth of a gramme of fuchshine, possibly a weight of water or dust not much greater would suffice for visibility in a column of air 1000 feet long.

Potato paint is a novelty, which is said to adhere well to wood and plaster, and to be very cheap. To make it, boil one pound of peeled potatoes, mash, dilute with water and pass through a seive; then add two pounds of Spanish white in four pounds of water. Different colors can be had by the use of the ordinary mineral powders.

In the new process for spinning and weaving glass into cloth the warp is composed of silk forming the body and groundwork, on which the pattern in glass appears. Not less than fifty to sixty of the original glass strand are required to form one thread of the weft, and not more than a yard of the cloth can be produced in twelve hours.

A physician of Allegheny City, Penn., has invented a machine for carving planks of wood according to various patterns. The planks are run through the machine as they are for producing plaued, tongued and grooved boards; but by means of knives skillfully adjusted, which run across the fibre of the wood, very intricate designs are carved continually from end to end.

Hydrogen gas has been liquified, but it requires a pressure of 10,000 pounds to the square inch, and a temperature of 220 degrees below zero. It forms a blue liquid, which, by the cold produced by its own evaporation, may be frozen for an instant to a solid with a metalic lustre, thus confirming the theory that hydrogen is a gaseous metal, just as mercury is a liquid one.

The Dog Caught His Consumption.

J. S. Manly is a new-comer at Flint, Mich., and the following story is told of him: A year ago Manly, then a resident of St. Louis, was dying of consumption. One day the family dog, a valuable greyhound, made his way to the sick man's bed and licked his face and hands. Manly was too weak to drive him off, and its mighty lucky that he was, for contrary to the predictions of the doctors, Manly began to improve. The poor dog, however, had absorbed the disease, and the animal is now in the last stages of consumption, while Manly is as well and strong as he was in early manhood. Photographs of the dog before and after taking the consumption would add to the vividness of the story, but Manly vouches for it word for word.—*Macon News.*

An improved white lead process has been originated by a Glasgow inventor. It consists of a simply constructed furnace which distils the lead ore at the rate of about two tons daily per furnace, the final oxidation and conversion into white lead taking place in an outer chamber, while the distilled white lead is collected in a condenser and then washed and dried for use.

Progress.

It is very important in this age of vast material progress that a remedy be pleasing to the taste and to the eye, easily taken, acceptable to the stomach and healthy in its nature and effects. Possessing these qualities, Syrup of Figs is the one perfect laxative and most gentle diuretic known.

MABEL'S GRANDMA.

"The world is even as we take it,
And life, dear child, is what we make it."

This is sense, even if it is not Shakespearean. Indeed, it is the opening stanza of an anonymous poem. It was the sentiment of an old lady to her grandchild Mabel. And many a Mabel has found it to be true, and she has made her life a very happy one because she has taken care of her health. She keeps on hand a supply of Dr. Pierce's Favorite Prescription, and so is not troubled with those wasting diseases, weaknesses, "dragging-down" sensations and functional irregularities that so many women endure. It is the only medicine for women, sold by druggists, under a **positive guarantee** from the manufacturers, that it will give satisfaction in every case, or money will be refunded. This guarantee has been printed on the bottle-wrappers, and faithfully carried out for many years. "Favorite Prescription" is a legitimate *medicine, not a beverage.* Contains no alcohol to inebriate; no syrup or sugar to derange digestion. As *peculiar* in its remedial results as in its composition.

As a powerful, invigorating tonic, it imparts strength to the whole system, and to the womb and its appendages in particular. For overworked, "worn-out," "run-down," debilitated teachers, milliners, dressmakers, seamstresses, "shop-girls," housekeepers, nursing mothers, and feeble women generally, Dr. Pierce's Favorite Prescription is the greatest earthly boon; being unequaled as an appetizing cordial and restorative tonic, or strength-giver.

As a soothing and strengthening nervine, "Favorite Prescription" is unequaled and is invaluable in allaying and subduing nervous excitability, irritability, exhaustion, prostration, hysteria, spasms and other distressing, nervous symptoms, commonly attendant upon functional and organic disease. It induces refreshing sleep and relieves mental anxiety and despondency.

A Book of 160 pages, on "Woman and Her Diseases, their Nature, and How to Cure them," sent sealed, in plain envelope, on receipt of ten cents, in stamps.

Address, WORLD'S DISPENSARY MEDICAL ASSOCIATION, 663 Main St., Buffalo, N. Y.

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