Scientific.

AMBER. This fossil substance is supposed to be the product of extinct conifere. It resembles the resins and is sometimes found on fossil wood and inclosing the cones and leaves of the tree called by Göppert Pinites Succinifer. Insects which inhabited the ancient forests have been found embalmed in it. The electric properties of amber are well known. The Greeks called it "elektron," from which is derived the word "electricity." Amber is brittle and tasteless; it is a little heavier than water, generally of a whitish or light yellow color, and often transparent. The exact constituents of amber have not yet been ascertained. It is a mixture of resins, succinnic acid, and a volatile oil containing several hydrocarbons. After a treatment with ether, the insoluble part is said to have the same composition as camphor. Amber may be dissolved by pure alkalis and by sulphuric acid. When it is subjected to fuming ni-tric acid "artificial musk" is formed. The largest specimen of amber known weighs 18 lb. and is deposited in the Royal Cabinet of Berlin. Amber is found in various parts of the world, but the chief supply is now from Nurth-eastern Prussia, on the coast of the Baltic Sea, where it is washed out of the bluffs, and is generally found after a storm. Prof. G. Zuddach of the University of Köningsberg has described in The Quarterly Journal of Science the geological formation and of the carnauba palm. He proposed the amber region called Samland, lying name of cotton wax to distinguish it from however, is equally efficient for either. The north-west of Köningsberg, from which we gather the following information: "The blue earth" or "amber earth" on the west, lies on the level of the sea, under deep beds of a green sand of the tertiary formation; the stratum of amber-earth being only three or four feet thick: in other places it reaches a.thickness of eight feet. The amber occupies only a narrow zone in the whole formation; in this indeed it occurs abundantly, but is not equally distributed. For each square foot of the surface of the bed—that is, one cubic foot of sand—from one half to one-pound of amben may be reckoned as about the average. The pieces are of various sizes, those weighing as much as a half pound being seldom found, and larger lumps of one or more pounds are extremely rare. Their surfaces are dull and worn, and their edges and angles are somewhat rounded, but not to a sufficient extent to obliterate the various forms which they originally received as the liquid resin of a tree, such as pins, drops and plates, which were formed between the bark and the wood, or between yearly rings of growth of the stem. Fre quently, also, fine impressions of the parts, of the plants which produced them can be distinguished on their surfaces. It follows, therefore, that the pieces of amber were for some time, but not very long, rolled about by the water previous to their deposition. With the amber also occurs fossil wood, but generally only in small pieces; which were probably half-decayed when they were degive the most immediate effect, and these, as a general thing are most destructive to posited. The complete system of a tree has never yet been found in the amber earth, and solid pieces of a foot or more in length are very rare. Such pieces of wood as still have amber attached to them are of special inter- after long exposure to the air, the harness est, and there are even some so completely should be given a new coat of grain black, penetrated with the amber-resin that they appear to consist, not so much of wood-fibers as of amber-filaments. In the "amber-earth" and in the lower part of the "quick-sand just above it there also occur pieces of compact clay and marl which contain numerous fossils, the same as those which are found in the overlying ferruginous sandstone. The amber-earth by no means lies in its original bed-that is, not in the soil of the old forest in which the amber-pines grew; the whole deposit of the "glanconitic sand" is a marine formation, and the amber was washed into it by the sea, in which crabs, sea-urchins, and oysters lived. From the habits of these animals, and from the form of the pieces of amber, it may be inferred that the deposition of the latter occurred not very far from the shore; and from the condition of the amber, that its deposition took place in a proportionately short time, and that considerable stores of it must have been collected in neighboring localities. In the beds above and below the "amber-earth" only a few isolated pieces of amber occur. When lashed by the storms, the sea tears up the amber out of the deep lying beds of amberearth; by the help of the sea weeds torn up at the same time from the beds of the sea the ambersis heaved upward, and carried to the surface of the water; and when the storm abates and he see becomes cann, it carries the amber, together with pieces of older brown coal and fresh marine plants, on the beach, where a hundred hands are waiting to intercept it with natural that is the "amber drawing," a trying occupation, which demands a strong and hardy time, for the cold winter storms yield the richest booty. But many pieces of amber, nevertheless, do not reach the shore, for the largest and heaviest pieces have already sunk to the bottom, and lie between the large boulders which cover the sea-bed. Therefore in calra weather, and with clear water, the inhabitants of the coast go in boats, and turning the stones with hooks fastened on long poles, cndeavor to discover the amber in the interspaces, and to draw it up with small nets. This is called "striking for amber." For a long time people were contented with what amber they could recover by this means The numerous springs of soft and cool water from the sea, and these modes of acquisition still furnish the greatest quantity of the amber which is obtained from Samland, for commerce. For the last ten years, however, on all points of the coast where amberearth does not lie too deep beneath the sealevel, endeavors have been made to lay it bare and obtain the amber immediately from of manufacturing it is presumed there is but

earth by subterranean mining-works. And immersed in the water, where it remains durto make this possible, and therefore to render accessible the stores of amber which For winter butter a small teaspoonful of lie hidden in the interior of the country, will be the next progress in the acquisition of these, in so many respects, remarkable

COTTON WAX.

Society "on some of the constituents of cotton fiber," describes the organic substances obtained by him from unspun cotton yarn, the most interesting of which was a waxy matter, insoluble in water, but soluble in ether and alcohol. If a concentrated solution in boiling alchehol be allowed to cool, the greatest part is deposited, caustered off and dried it shrinks very much, New Yorker. has a waxy luster, and is translucent, friable, and lighter than water. Its melting point is between 83° and 84° C. At a higher temperature it is volatilized. When heated on platinum it burns with a bright flame The author thinks it probable that this substance covers the cotton fibers with a thin waxy film, and this impants to them their well-known property of resisting water. In its properties and composition it approaches very nearly the vegetable waxes, such as "You are aware that it is hard sometimes other nearly allied bodies.

Kural Cconomy.

THE PRESERVATION OF LEATHER.

A contributor of the Shoe and Leather Re-corter gives some valuable hints in relation to the preservation of leather. The extreme heat to which most men and women expose boots and shoes during the winter deprives leather of its vitality, rendering it liable to break and crack. Patent leather, particularly is often destroyed in this manner. When eather becomes to warm as to give off the smell of leather, it is singed. Next to the singing caused by fire heat, is the heat and dampness caused by the covering of rubber. Close rubber shoes destroy the life of leather.

The practice of washing harness in warm water and with soap is very damaging. If a coat of oil is put on immediately after keep. All in excess of this is injurious: washing, the damage is repaired. No harness is ever so soiled that a damp sponge will not remove the dirt; but, even when doors are certain to impart a disagreeable the sponge is applied, it is always useful to flavor. Mr. King stated that he knew a add a slight coat of oil by the use of another

All varnishes and all blacking containing the properties of varnish should be avoided. Ignorant and indolent hostlers are apt to as a general thing, are most destructive to When harness loses its luster and turos

brown, which almost any leather will do the grain surface should be thoroughly washed, with potash water until all the grease is killed, and after the application of still frozen solid within four inches of the plied to the surface. This will not only clover. His reply was: "It don't do any "fasten the color," but make the leather harm; and I get a fine fall forage from it flexible. Harness which is grained can be cleaned with kerosene or spirits of turpentine, and no harm will result if the parts affected are washed and oiled immediately afterward.

Shoe leather is generally abused Persons know nothing or care less about the kind of material used than they do about the polish produced. Vitriol blacking is used sired to ferment green, and stimulate the until every particle of the oil in the leather germination of the seed. It is a profitable is destroyed. To remedy this abuse the plan, any way. I like clover in my soil. leather should be washed once a month Some people do not; but either I am a good with warm water, and when about half dry, deal of an egotist or some people are foolish. a coat of oil and tallow should be applied, and the boots set aside for a day or two This will renew the elasticity and life in the leather, and when thus used upper leather will seldom grack or break.

Band leather is not generally properly

used. When oil is applied to beiting dry it does not spread uniformly, and does not incorporate itself with the fiber as when partly dampened with water. The best way to oil a belt is to take it from the pullies and immerse it in a warm solution of tallow and oil. After allowing it to remain a few moments the belt should be immersed in water heated to one hundred degrees, and instantly removed. This will drive the oil and stallow at line and wat the same time properly temper the leather.

BUTTER MAKING.

In the New York butter market, the Orange county product holds the highest rank and commands extreme prices always. Its excell nce is, in some measure, to be attributed to the superiority of the pasture lands of that region over most, if not all. other sections of the state, but more particularly, perhaps, to the greater care and attention bestowed upon the manufacture of the butter and its preparation for market. gushing from the hills in Orange and contiguous counties affording admirable sites for spring houses is a great and important aid in the manufacture of butter-an advantage that the western section of the state is but par ially possessed of. In the process it. The circumstance that it is overlaid by little if any difference between that pursued a bed of very loose sand, which contains a in Orange county and other sections. In large quantity of water, has hitherto im- hot weather, after the butter is salted and peded the attempts to open out the amber worked over, it is taken to the spring and Addishard with a second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over, it is taken to the spring and the second worked over the second worked w

ing the day, when it is worked and packed. pulverized saltpetre and a large table spoonful of white sugar are added for twenty odd pounds of butter at the last working. As a general thing no coloring matter is used in factory butter. The working is done on an inclined slab with beveled sides running Mr. E. Schunck, in a paper read before down to the lower end, and within four inches the Manchester Literary and Philosophical of each other, at which point a wooden lever fitted into a socket, is attached as a working instrument—performing the office of the butter ladle. The firkins for packing are of white oak, carefully and neatly made and well soaked in cold water before being used. When filled they are headed up, and strong brine poured into the top-a hole being ing the liquid to assume the appearance of a thick white jelly, consisting of microscopic needles or scales. When this jelly is filprepared it is ready for market. Rural

BOTS IN HORSES.

Referring to the statement made in the United States Agricultural Report for 1864, Col. J. Hamilton writes from Raleigh, N. C., to the Department of Agriculture, stating that he has a recipe from Dr. Gee, of Florida, which he has not tested, but will do

those found on the leaves of the sugar cane to distinguish between an attack of the bots reason that a bot can resist the action of agents administered is his power of drawing his head into the walls of the stomach by his tentacles. But he cannot resist chloroform. A table-spoonful of chloroform screened by a couple spoonfuls of any-good mucilage will make him let go his hold on the even after having bored nearly through."

KEEPING BUTTER.

'At the recent meeting of the Diarymen's Association in Illinois, President King remarked that he had been a dealer in butter for thirty years, and considered that May, June, and July, produced the best, if properly made and put down: "Butter containing whey, or lime, or milk will not keep. It should be made dry, come hard, and be properly cured. Most people salt too high. It should be salted to the palate, and it will The milk, cream, and the surroundings of the butter room should all be pure, as foul man to plant honey-suckles and roses around the place where his butter was made, for the purpose of giving it an agreeable flavor. This was a pleasant conceit, whatever the influence on the dairy-room may have been. Rural New Yorker.

CLOVER AND WHEAT.

A correspondent of the Rural New Yorker. in Central Illinois, in walking over a field where one of his neighbors was sowing clover with his wheat, and harrowing them in on a the grain black, oil and tallow should be ap- surface, asked, him why he had always sowed any way when I but in the seedin February and March. Sometimes I change my plans and do not plow the field in the fall , if I do the clover and its roots do not hurt the soil much a If Atum it over in the spring for corn, the crop plowed under, from the first to the 15th of May, is all that need be de-Some people do not; but either I am a good I find it good substitute for weeds."



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