# 84

Scientific Museum.

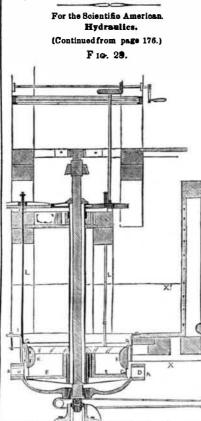
### Butter.

Milk is the most natural and common food of man. Out of milk two other common articles of food are obtained, viz., cheese and butter; butter exists in the form of very small globules, and out of 100 parts of cow's milk, 3'75 parts of butter are obtained. Human milk contains about one-sixth more butter than the above. Butter is indebted to a substance called "butyrine" for its fine flavor. Casein, the cheesy matter of milk, if not well removed from the butter, by working and washing. soon putrifies, and will give the butter a bad taste. Butter does not appear to the monarch to whom those things are dehave been known to the ancients, at least so far as history reveals knowledge, but we cannot believe that butter was not known to them for all this. We read of "a land flowing with milk and honey," but no butter, still this is not conclusive against the reasonable conclusion that the old Hebrews did know what it was. The oldest hint, historically, about butter, is given by Herodotus, who ascribes the use of it to the Scythians. Hippocratus also alludes to the Scythian butter, and recommends its use externally for medicine. In the time of Galen butter was known and used, but to a very limited extent, among the Greeks and Romans ; in the second century Pliny ascribes the invention of butter to the Germans, but this only shows that the Romans became acquainted with it through the Germans. It was much used as a pomatum both by the Greek and Roman ladies. Pliny recommends it to be mixed with honey and rubbed over the gums of children to ease the pain of teething, and for ulcers in the mouth-a hint that may not be useless to us moderns, The Romans anointed the bodies of their chil. dren with butter to make them pliable, and it appears that they did not know butter as we do, in firm cakes, but only as a semi-fluid, like thick olive oil. This is not wonderful, owing to the general warmth of southern Italy. Neither the Spaniards nor Portuguese know much about butter, and the inhabitants of Mexico seldom est it. In the city of Mexico it costs one dollar per pound ; the most wealsider it an essential article of food,-we do, and Scotch make and consume a great deal of butter, especially the Scotch, who are, or at

tering the buckets of the wheel; G G is a holof hair. This is altogether an assertion, withcleanliness and plenty of elbow grease. In low cylindrical casting, interposed between the out a single fact for proof. Different nations some parts of Ireland, but especially in Dewheel and directing curves, and forms the are distinguished for their general complexiou, vonshire, England, and Ayrshire, in Scotland, sluice gate. This cylinder moves concentric -the Fins are red, the Scotch, brown, the the butter made has had a world-wide fame. to another fixed one, I I. When the movable Spaniards, black, and great numbers of the The plan pursued seems to be for the dairycylinder, G G, is raised, the water runs out Irish have peculiarly fine blue-black hair ; the maids to wash their understandings, and perbetween its lower edge and the plate, E E. Americans are of every hue, because made up form the same operations as the French and and can then enter within the wheel. The of all nations. Those who are fond of coloring their hair to change it from a light to a dark color, can easily do so by applying to the perfumer. We have never seen a change made from a black to light hair, but we have met not a few red-headed mulattoes, they Portuguese who dance among the grapes at curved guides allow the water to enter the the wine press. By having large tubs with wheel without any sensible shock, and the false bottoms, covered with clean coarse cloth, water is directed on the side contrary to the into which the butter is placed and danced motion of thewheel. To get the full value of TERMS-\$2 a-year ; \$1 for six months. All Letters must be Post Paid and directed to power, the water must enter the wheel with upon, with water to wash it as much as is remet not a few red-headed mulattoes, they all the ch ed throu st no sensible shock, and e pe from the esy matter is pre MUNN & CO. seemed to pride themselves on their sanguine the coarse cloth and runs off with the water sluices of discharge with almost no velocity ; Publis ers of the Scientific American 128 Fulton street, New York. appearance, but of all men we ever saw they of cleansing. This is a most efficient and ef- K K are wooden cushions fixed to the sluice appeared to require the nitrate of silver most. fectual way of working butter for packing. As gate, and slipping between the curved guides, INDUCEMENTS FOR CLUBBING. INDUCEMENTS FOR CLUBBING. Any person who will send us four subscribers for six months, at our regular rates, shall be entitled to one copy for the same length of time; o: we will furnish-10 opies for 6 mos., \$3 15 copies for 12 mos., \$22 10 '' 12 '' \$15 90 '' 12 '' \$20 Southern and Western Money taken at par for subscriptions; or Post Office Stampe taken at their full value. a general thing, the kind very common in our and being of a rounded form at their lower Potatoe Rot. A short time ago we published the following makets depends for its weight in having a parts, diminish the effects of contraction on article, with the exception of the corrections. gooddeal of the milk left in it, and none of the sides. The sluice gate is moved by rods, the cheesy matter pressed out-it is a pro- L L, cut into screws on their upper parts, and The errors were made very naturally by the copy-it being difficult to tell some words fitable way of producing it for sale. Butter around which thereturn three pinions of equal usencia butter can be completely cured of its bad taste and smell, by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell, by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell, by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell, by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell, by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tube, and has on its upper part a cog-wheel to its bad taste and smell by melting it max tur foreign countries should be well tramped or diameter, which answer the purpose of screw from those nearly similar, owing to the hand

straining it through a clean cloth. After this it appears of a different form; it crystalizes main shaft works in a socket of a step, and in soft round crystals, and has no taste like what it would have had, if made well at the first operation. All rancid butter for cooking should be treated this way; it changes the butter, takes away the bad smell, prevents it from spoiling again, however long kept, and it really has a beautiful appearance. The butter should be kept stirred after it is all dissolved for about ten minutes. One ounce of saleratus will purify four pounds of butter. A thick sediment falls to the bottom, and a very thick scum gathers on the top. Butter is one of the finest articles of human food. The farmer with his snowy white bread and beautiful golden butter for breakfast, dines richer than

nied.



FOURNEYRON'S TURBINE.-The accompanythy classes do not use so much of it as the ing figure (28) represents a verticalinside view butit is best to apply it repeatedly and to have poorest amongst us; in fact they do not conof Fourneyron's Wheel and connected machiit very weak, or otherwise it will prove very nery. The essential parts are the ring with injurious to the system. In alcoholic lotions and could not, to use a common phrase, "live INVENTORS curved buckets and the sluice. The wheel, A for the hair, a very small quantity of the biwithout it." It is justly believed that more AND A, is made of an upper ring and a ring below, chromate of potash, which is of a yellow cobutter is consumed in the northern States of MANUFACTURERS. cast in one piece, with a concave bottom, C lor, will affect the hair and make it darker. It America than in any other country having the These two rings are joined together by the The Best Mechanical Paper takes a long time before its effects are observed same amount of population in the world. The curved buckets, D D, made of strong sheet me-IN THE WORLD! but they are no less sure on that account, Hollanders are distinguished for making good tal. The sluices consist of a bottom plate, E SIXTH VOLUME OF THE This is a very safe substance to use, but care butter, so also are the Northern Germans, SCIENTIFIC AMERICAN. The Publishers of the SCIENTIFIC AMERICAN respectfully give notice that the Sixter Voltmar of this valuable journal, commenced on the Sist of September last. The chaster of the Sci-ENTIFIC AMERICAN is too well known throughout the country to require a detailed account of the va-rious subjects discussed through its columns. It enjoys a more extensive and influential circula-tion than any other journal of its class in America. It is published weekly, as heretofore, in Quar-to Form, on fine paper, affording, at the end of the year, an ILLUSTRATED ENCYCLOPEDIA, of over FOUR HUNDRED PAGES, with an Index, and from FIVE to SIX HUNDRED ORIGI-NAL ENGARINGS, described by letters of re-ference; besides a vast amount of practical informa-tion concerning the progress of SCIENTIFIC and MECHANICAL.IMPROYEMENTS, CHEMISTRY, CIVIL ENGINEERING, MANUFACTURING in its various branches, ARCHITECTURE, MASONRY, BOTANY,-in short, it embraces the entire range of the Arts and Sciences. It is loo possesses an original feature not found in any other weekly iournal in the country, viz. an E, connected with a hollow cast iron pipe, SCIENTIFIC AMERICAN. must be exercised in using only a very small Norwegians and Danes The English, Irish. which encloses the main shaft of the wheel, quantity, or the color will be of too deep a yeland is sustained on the upper part; on this low in the liquid. plate the curved guides, seen in fig. 28, (and It has been said that the Chinese have a least were, almost half Jewish in their feelings those in fig. 27, last number), stand vertically, method of treating with food, so as to change towards the use of pork and lard. to give the water its proper direction for enthe system and give a permanent black head The great secret of making good butter, is

can be raised or lowered, as may be required. X' is the upper water level, X is the lower.

Scientific American.

#### Hair Dyes.

The coloring of hair, while growing, is an object of some consequence to those who have not the natural good fortune of enjoying sable locks. The use of chemicalsforcoloring the hair is very common among the civilized nations of Europe and America. Red heads are foolishly abominated in no country more than our own. The prejudice is no doubtinherited from our English and Irish ancestors, who had such a hearty hatred of the Danes-the red-haired race. They had felt the iron hand of Denmark, and it was held to be a most unlucky event to meet a red-haired man first in the morning, but above all, a year's misfortune to meet a red-haired man first on New Year's Day. Deep auburn locks with a reddish hue, were held to be the most beautiful of any, and among the nations of the East-in some parts of Turkey-red hair is fashionable, and ladies with fine sable ringlets often make them red with pigments In Persia, too, blue beards are common-old men of seventy may be seen with fine blue beards, so there is no accounting for fashion, "''tis all a matter of whimsical flourish," as Dibden would say.

It has been asserted that the use of thetincture of sulphur and sugar of lead had changed old Gov. Twiggs from a gray-haired veteran to a brown-haired Adonis, consequently this lotion has become not a little fashionable, but city, in warning us of the oblique approach of better far to wear the gray than indulge in objects. such vile practices.

The general hair dyes are made of lead and silver compositions. A lead comb, with the use of oil, makes the hair sleek and jet, but then it is a fine way to keep the hair in the negative condition of cleanliness.

Liquids made of the nitrate of silver are the common hair dyes. In powder the nitrate of silver, if made into a paste, and rubbed into a flery set of whiskers, then bound up with a cloth for five or six hours, will change them to a black. This is merely causticizing them, and the silver sticks like lime. It can he got off, however, without a great deal of trouble. The nitrate of silver, in liquid, is the common bair dye. It is most effectual,

transmit motion to other machinery. The almost entirely by the rot. My beat planting was an upland second crop from the sod, (I think a first crop would have been better); it was planted about the first of June, hoed once, and a handful of plaster cast over the vines immediately after hoeing. I should have cast it upon the seed, also, before cover, if I had provided it to hand. When dug from the hill, they were separated (5 per cent. only being affected, and those with the dry rot only) and spread on the floor of my wagon-house, until thoroughly dry and the weather compelled me to remove them to my cellar: when they were spread out about a footthick, over a large bin, where the air can circulate beneath : and they have kept perfectly well. Plant so late that your vines will not mature and dry up in the drought of harvest, on lands not subject to frost, and secure the fall growth of large and fine tubers, use the plaster freely, and you need not fear the rot." GREEN.

## Spectacle Lenses.

Dr. Wollaston introduced a new kind of spectacles, called periscopic, from their property of giving a wider field of distinct vision than the common ones. The lenses used for this purpose are meniscuses, in which the convexity predominates for long sighted persons; and concavo-convex lenses, in which the concavity predominates for short-sighted persons. Periscopic spectacles decidedly give more imperfect vision than common spectacles, because they increase both the aberration of figure and of color; but they may be of use in a crowded

## LITERARY NOTICES.

DICTIONARY OF MECHANICS AND ENGINE WORK.-Io. 24 of this work, published by D. Appleton Co., is issued, and contains treatises on iron, with many engravings, likewise articles on Japanning and Joinng of Timbers, Kilns. Knives, &o. It is a very good number. The name of Oliver Byrne, as Editor, good number. The name of the cover.

