Scientific MUSEUM.

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Poisonous Chloroform In our last number we published some experiments made by Dr. Jackson, of Boston, upon animals, with chloroform and the oil of whiskey. Those experiments distinctly proved that the oil of whiskey is dangerously poisonous. This is a most reliable discovery, and at once accounts for a number of deaths which have taken place by people inhaling chloroform. For this discovery, a most valuable one, Dr. Jackson deserves the thanks of the whole world, and something more than the mere expression of public gratitude. In an article in the "Boston Medical Journal," he states that for a long time he had been suspicious that there was a certain poison derived from the common whiskey, of which inferior chloroform is made. He therefore, during the past month, succeeded in procuring some very fine fusel oil, and he undertook researches which have resulted in the conviction that it is this anyle compound which produces the poisonous matter of certain kinds of chloroform. He says: "When this oil is mixed with hyperchlorite of lime, (bleaching powder), and water, in the same way as we prepare alcohol for the production and distillation of chloroform, I tound that the mixture in the retort, after agitation and standing some time, became warm, indicating that a re-action was taking place between the fusel oil and the hyperchlorite of lime.

After some hours the retort was placed in a water-bath and distillation was effected, the volatilized liquid being condensed by mezns of one of Liebig's condensers. A clear colorless liquid came over, which was at once recognized as having the peculiar odor of bad chloroform. It is perhaps a ter-chloride of amyle, but has not yet been submitted to analysis.

It is so powerful that merely smelling of it makes one dizzy, and working over it made me so sick that I was obliged to go out of doors for fresh air several times during my operations on it. In order to make sure that the fusel oil was all decomposed, I again mixed the distillation above mentioned with a new lot of bleaching powder and water; and after three hours, with frequent agitation, it was again distilled, and gave what I regard as the pure unmixed poison."

This substance he tested on the rat and turtle, as noticed last week, and the results lead him to the following conclusions :--

"1st, That a poisonous matter exists in the cheap chloroform of commerce, from the fusel oil which exists in whiskey, made from corn, rye, potatoes, &c., and which is now used to make cheap chloroform.

2nd, that all chloroform intended for inhalation as an anæsthetic agent should be prepared from pure rectified alcohol, to be diluted with water when used for distillation from hyperchlorite of lime.

3rd, when chloroform, and the alcoholic solution of it called chloric ether, is made from pure alcohol diluted with water, no fatal accidents take place from its judicious administration.

4th, that no druggist should sell tor anæsthetic uses any chloroform which is not known gested.

5th, that the mixture of chloroform and althe same precautions as chloroform."

fication states, that the butter is preserved he Ditcher or sixty dollarsare not nerticular by the same means; the browning is a coating The English papers continue to chronicle a | fresh and good for any length of time. It is which is chosen. of oxide or rust; it is formed by rusting the The Scientific American is in form for Binding, tremendous rush of emigration from England also asserted, that fresh butter as well as salt, barrels by a weak acid, or what is better, a and each Volume is furnished with an Index of all to Australia. There must be much suffering | are equally well preserved, and kept as good mixture of the muriate of iron and the nitrate the subjects embraced in it. among the pioneers, as was the case in the as it was the first day it was put in, for an inof copper. The barrel is rubbed over with Letters should be directed (post-paid) to early emigration to California, but if the supdefinite period. To know if this process of MUNN & CO., the liquid, and laid past for a few days, then plies are as large as represented, and the agri-128 Fulton street, New York. preserving butter is truly performed, it is sutit is brushed with a wire brush, then coated cultural resources of the country great, Ausficient to place the boxes containing the butagain, and laid past for a few days longer, and Terms! Terms! Terms! tralia will prove an incalculabe blessing to ter in some apartment having a temperathen washed in warm water in which a little One copy, for One Year \$2 the English people. Her colonial acquisitions ture of summer heat, which is the most Six Months \$1 soda has been dissolved; it is then dried, have hitherto increased the glory of the Engfavorable to a combination of the butter with Five copies, for Six Months \$4 brushed, and oiled, and again dried in a warm \$8 lish government without adding aught to the oxygen, which is the cause of it becoming Ten Copies for Six Months for place. If the barrel could be boiled in oil, so Ten Copies for Twelve Months, \$15 happiness of her subjects. Australia promirancid. If, after seven days of exposure to much the better. Some use weak nitric acid \$22 Fifteen Copies for Twelve Months, ses to bring direct relief to her crowded pothe artificial summer, the butter is found fresh to oxidize the barrel. Twenty Copies for Twelve Months, \$28 pulation, by giving occupation and bread to and good in the boxes, the process will be con-Southern and Western Money taken at par for Pumnkin Seed Oil. tens and hundreds of thousands of emigrants, sidered complete and perfect. Any place be-. subscriptions, or Post Office Stamps taken at their A very excellent oil may be prepared from full value. and also by affording a better chance for em- hind a stove, or in a barrel surrounded with '

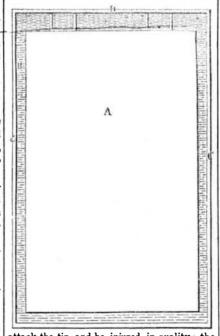
Scientific American. ployment and the means of subsistence to

those who remain. Patent Mode of Preserving Butter. F1G. 1 Α

The annexed engravings are views of a new mode of preserving butter for which a patent was granted on the third day of last month (Aug., 1853) to Louis de Corn, of the city of Cincinnati, Ohio.

Fig. 1 is a plan, view of the box for preserving butter, and fig. 2 is a vertical section. The same letters refer to like parts. A represents the butter in the box; B B is the preserving liquid surrounding the butter; C C is the box. Let us suppose the box to be open; the butter to be preserved is first moulded to be of a size a little less in diameter, than the box, and of a cylindrical form like unto it, and then placed in the said box; there is then a space all around between the butter and the box. This space is then filled with a solution of water, in which has been dissolved about a quarter of a drachm of the iodide of potassium to each half pint of clean soft water. When this liquid is poured in to fill the box. the butter rises or floats, owing to its being of a less specific gravity. The cover is then placed on the box. This cover has two small pieces of tin, a b, to prevent (as much as possible), the butter from being in contact with the tin, in order that the butteric acid may not

F16. 2.



attack the tin, and be injured in quality; the

STATES. The winner of the first Prize can receive Gun barrels of iron and steel are browned

the artificial summer to test the process. Iodine is the body which gives the antiseptic property to sea salt, and this property of preserving the butter as described, is claimed for the liquid that is employed by M. de Corn. The claim is for the aforesaid chemical compound or its equivalent, for the preservation of butter for any length of time, in the manner substantially as described.

This method of preserving butter is some thing which concerns all our farmers.

Collodion in the Treatment of Erysipelas. In the "Eclectic Medical Journal," Cincinnati, we perceive that the use of Collodion in Erysipelas was ably and clearly set forth in an article by O. E. Newton, M. D., in the April number for 1851. It states that the first case treated by Collodion within the experience of the author, was reported in the " London Lancet" for April, 1850. Dr. Newton states that he has applied it in erysipelas with great advantage. The editor, as we understand it, cites quite a number of cases from the "New York Journal of Medicine," to show the success of Collodion in the treatment of many cases of Erysipelas.

The "Eclectic Medical Journal," of Cincinnati, is conducted by Prof. J. R. Buchanan, M. D., and R. S. Newton, M. D., of the Eclectic Medical Institute, of Cincinnati; it is a very able medical journal, and we like its tone and gentlemanly bearing. There are some of what are termed our "Old School Medical Periodicals," which, we regret to say, do not use such language when speaking of cotemporaries, as we would like to see them employ.

Hooping Cough.

In the "New Jersey Medical Reporter" it is stated that conium is good for hoopingcough, and that conia has beem successfully employed in France for the same disease; it is given to children in doses of one-fortieth to one-tenth of a grain, according to their ages, of from three months to four years of age. It is a medicine which must be used only by a regular and cautious physician. It is also stated that the application of a blister to the nucha (the hinder part of the nape of the neck, also called the cervix) has been very successful in curing hooping cough. Dr. R. L. Madison, of Petersburgh, Va., has recommended this mode of treatment, on the theory that the disease consists in specific irritation of the spinal chord from the origin of the eighth pair down to the origin of the phrenic nerve.

Bite of the Rattlesnake.

In the same medical journal there is an account, by Dr. S. W. Woodhouse, of the treatment of himself for the bite of rattlesnake. He was bit in the finger by a rattlesnake, at the Indian Pueblo of Zani, in New Mexico, the pain was intense, and he at once commenced to suck the wound, for he was about threefourths of a mile from the town. As soon as possible, he applied aqua ammonia, and then tried the great western remedy,-getting drunk. He took one quart of brandy (fourthproof), and one pint of whiskey; enough to kill any ordinary man; it produced intoxication, which lasted four hours. He suffered greatly for eight days, during which he took various medicines and at last recovered. It

warm water at 85 or 90 degrees, will furnish pumpkin seeds. The seeds are first peeled and then pressed between iron plates or wooden blocks with a screw press. The oil thus obtained is said to burn well, last longer, and give a better light than any of the common oils, and emits very little smoke.

Fishes in the Rivers of France.

M. Coste, in his late Report to the Minister of the interior, proposes to stock all the rivers of France with the best of fish for the small outlay of \$5,000. It is also proposed to stock the extensive salt lagoons on the coast of France upon the same principle with excellent shellfish.

LITERARY NOTICES.

THE NATIONAL PORTRAIT GALLERT.—Numbers 2 and 3 of this great American Work, contain por-traits of Thomas Jefferson, John Hancock, Charles Carroll, Winfield Scott, Anthony Wayne, and Thos. Macdonough, with biographical sketches ably drawn up. This work is to be completed in forty numbers, of three plates each, and is eminently worthy the patronage of all delighting in a knowledge of the achievements of our Warriors and Statesmen. Price 25 cents each number. R. E. Peterson & Co. Phila-delphia: Wm. Terry, 113 Nassau street. New York ielphia; Wm. Terry, 113 Nassau street, New York

delphia; Wm. Terry, 113 Nassau street, New York HAGAR: A Story of To-Day—By Alice Carey, is just issued by Redfield. The author of "Clover-nook," and many other writings of the very highest order of intellect, has furnished in "Hagar." a highly finished and charming novel, which we doubt not will be very gene. ally read and admired. The writings of Miss Carey have taken a strong hold upon the confidence and regard of the people, being free from every species of narrow-mindedness. Her genius is imbued with power to touch the finest cords of fancy, and where shall we look for her but in the very highest niche of literary fame. Red-field's style of publication does honor to the trade.

METERS' UNIVERSIM, Part 5-Price 25 cents.-It contai.s a spirited Engraving of the "Cathedral of Notro Dame, in Paris." "The School of Plato, at Bithynia," "View of the Hudson, near Newburgh," and "Calcutta" The accompanying articles are eloquent and pleasing; the publication is one of merit. H. J. Meyer, Publisher, 164 William-street, this city. this city.



The present Volume of the SCIENTIFIC AMERI-CAN commences under more favorable auspices than any of its predecessors. The amount of subscriptions is double that received within the same period on any former occasion. Aside from all other considerations, we regard it as a flattering testimonial of the usefulness and popularity of the publication so generously supported. We are greatly indebted to ur readers for much valuable matter, which has found a permanent record on its pages. The aid thus contributed has been most important to our success, and we are grateful for it.

From our foreign and home exchanges-from the workshops, fields, and laboratories of our own country, we have supplied a volume of more than four hundred pages of useful information, touching every branch of art, science, and invention, besides hundreds of engravings executed by artists exclusively in our employ.

We shall strive to improve the present Volume both in the quantity and quality of the engravings, and in the matter-selected and original. Having every facility for obtaining information from all parts of Europe, through our correspondents, we shall lay beforeour readers, in advance of our cotemporaries, a full account of the most prominent novelties brought forward.

The opening of the Crystal Palace, in this city, next May, will form an interesting subject for attention. We shall study it faithfully for the benefit of our readers, and illustrate such inventions as may be deemed interesting and worthy.

The Scientific American is the Repertory of Patent Inventions: a volume, each complete in itself, forms an Encyclopedia of the useful and entertaining The Patent Claims alone are worth ten times the subscription price to every inventor.

to have been properly prepared as above sug-PRIZES-We solicit attention to the splendid cylindrical block of butter, A, only touches is a common opinion in the West, that if a Prizes offered for the largest number of subscribers, consisting of a SILVER PITCHER worth \$60; a person be bitten by a rattlesnake, and he can the tin at two small stops, a b, a b. The box set of the ICONOGRAPHIC ENCYCLOPEDIA worth is then filled up with the iodide of potassium be made drunk with whiskey, he will recocohol commercially known under the name \$35; DEMPSEY'S MACHINERY OF THE NINEsolution through the small hole, H; this openof strong chloric ether, must be made with ver. TEENTH CENTURY, and C. B. Stuart's great work ing is then covered with a piece of tin, and upon the NAVAL DRY DOCKS OF THE UNITED Browning Gun Barrels. carefully soldered. By doing this, the speci-