Scientific American.

Scientific American. NEW YORK, FRBRUARY 3, 1855. The Age of the World. A question of great importance with di-

duced in the early days of the earth. Hugh | 35,000 years for the Niagara river, to form Miller brings forward some strong arguments its present channel from the Falls to Queensin favor of the great age of our planet, and town. Nearly all the eminent geologists bementions a number of geological changes lieve this, and they consider they have facts requiring tens of thousands of years to ac- to prove it, so strong, that they cannot be complish, which could not have taken place gainsayed. Mr. Means reasons strongly to in the short period of six thousand years, as prove that the meaning of the word day in is believed by those who adhere to the solar the first chapter of Genesis is an indefinite six days interpretation of the Genesis narra- period of time, and makes out a very strong

Fig.2

C

m

k

165

In the N.Y. Tribune of the 24th ult., there is a sensible article by Dr. Alcott, of Auburn Dale, Mass., on the use of saleratus-in which he presents a number of facts to prove that the use of saleratus for domestic baking is dangerons to health and life, and that it has caused death in many instances. He mentions the case of a number of students at Williamstown College, Mass., who boarded in the house of an indigent female that used saleratus very freely in cooking, to make puddings, &c., light, which he believes led to the breaking out of a fearful disease among them, by which two died. Drs. Sabin and Smith, of that place, attributed this disease to the saleratus in their food. He also states, that in a family of about ten persons, it is not an uncommon thing, in many places in Massachusetts, to use about a pound of saleratus per month. He believes that sub-inflammation of the alimentary canal is produced by the free use of this alkali, both in children and adults, and that of the 300,000 children under ten years of age, who die annually in the United States, at least 100,000 might survive but from the effects of saleratus.

More information may be obtained by let-

ter addressed to Clampitt & Regester, propri-

etors, No. 53 Holliday street, Baltimore, Md.

Saleratus in Bread.

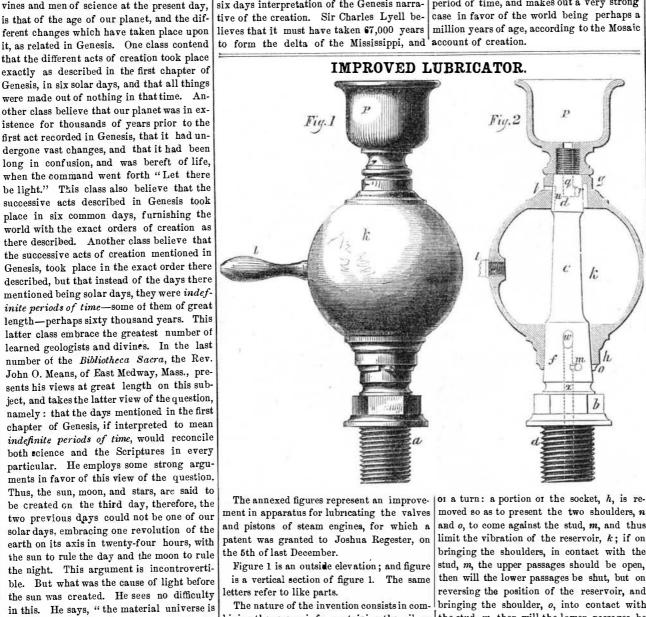
From his statements it appears to us that those whom he describes as using saleratus for cooking, to make light biscuits, puddings, &c., do not use acid with it, but simply the saleratus. Now this alkaline substance will not make light biscuit unless it is used with an acid of some kind. The soda and acid unite, setting the carbonic acid gas in the saleratus free, thus producing effervesence-not fermentation-which raises the dough and makes the bread spongy, leaving a bitter salt in the bread, (the tartrate of soda, if tartaric acid is used with the saleratus). There must be great danger indeed, in such a free and ignorant use of saleratus, without an acid, as a pound per month in any family. It is a common thing, however, in the country, to use sour milk with the saleratus, and there is not so much danger in its use when so combined, but, we must say, that saleratus, and those combinations of chemicals which merely produce effervesence, and not vinous fermentation, should not be used in cooking. Expe-

rience is the only way to tell what is good and what is evil to use as food or drink, and so far as our experience goes, and we have paid close attention to it for the past three years, we must conclude that yeast alone should be used for raisings in domestic cookery.

Wood Gas Controversy.

or Dr. McConnel, publishes a long advertisement in the Washington Sentinel, relative to the claims of his client, and Lieut, Porter's for making gas from wood. An engraving with the specification of Lieut. Porter's patent will be found on page 37, this volume of Sci-EMTIFIC AMERICAN, where his full claims are presented and the whole truth of the matter set forth. All who wish proper information

ges are open, the lower passages are closed, it g, for the escape of the confined air, which This ship, we perceive, is still reported to being a crusted ball of fire. We are not debe getting in her new steam engines, which is therefore impossible for both sets of passawould otherwise prevent the ingress of the oil pendent on the sun for light, as he has clearhave been substituted for the hot-air ones. ly stated, but he does not seem to understand ges to be open at one time, which precludes or other fluid to the reservoir. This vent, t, the possibility of the contents of the reservoir is also brought into communication with the It is supposed that she will be ready for sea its true theory. It is produced by the vibraabout the middle of next month, as 150 men being forced out by the pressure of the steam, reservoir by means of the slot-form passage, tions of a subtile medium diffused throughare employed on her. The old proprietors, out space. Our planet is self-luminous, but which would take place were both the top n, cut out of the side of the upper bearing, d. who were said to have asserted, "they were and bottom passages open at the same time. The oil or fluid within the reservoir, k, passes in a degree less so than the sun, for there is off to the cavity of the machine requiring to one glory of the sun, another of the moon, The apparatus is secured by screwing the perfectly satisfied with the success of the hotair engines," are the proprietors still, thus and another of the earth. Man's eyes are shank, a, into the steam chest, or other part be lubricated by passing down through a slot of the engine or machine requiring internal from a passage communicating with the openshowing a liberal consistency in all their constructed to see objects only by a great lubrication, and to facilitate this purpose, the quantity of intense light; but some beasts ing, w, in the side of the lower bearing, f, and changes. part, b, is made with flat sides, upon which connecting with the central perforation, x, in and fowls have their eyes constructed to Locusta range the forest and field by night as freely the lower part of the stem, C. the jaws of a wrench may take hold. In Dr. Gideon B. Smith, of Baltimore, says as man does during day, while during sunfigure 2, C is the central stem, of which d is The advantages of this improved lubrithe seventeen year locusts will make their the upper, and f the lower conical bearing, light they can scarcely see at all. A tribe cator over those which have separate cocks. appearance this year along the eastern coast and requiring separate manipulations, consist of Africans also-the Bosjesmen-remain in these bearings fit accurately into their respecof Maryland, and to Carlisle, Pa., and also their caves during day, and search for their tive sockets, g and h, of the reservoir, k, which in its compactness of form, certainty of operain Kanawha, Va., and Lexington, Ky. They food during night. From habit, we presume, is moved around a central stem by means of tion, and simplicity of movement, the mere can be found in all the above places, whererevolving of the reservoir around the central they have become nocturnal roamers-menthe projecting handle, *l*, which is screwed into ever trees, shrubbery, or forests grew in owls-thus showing that natural light bethe reservoir, k. The extent of the motion 1838, by digging down one or two feet. For stem answering all the purposes of opening longs to our planet; the unceasing throbbings and shutting the air cock, the receiving cock, of the reservoir necessary for opening and more information on this subject, see Dr. of its particles produce continual light ; this closing the several passages is regulated by and the discharging cock, and that, too, with-Smith's illustrated description of this locust, was the way, no doubt, that light was pro- the stud, m, and may be about one-quarter out error or mistake. on page 212, vol. 6 SCIENTIFIC AMERICAN.



bining the reservoir for containing the oil, or full of light, ready to be worked at a word. lubricating fluid, with a central conical spin-Chemical action on a vaster scale than man dle or stem, by means of two sockets or bearcan follow, is taking place every moment, and ings, one of which is at the upper, and the floods of light are poured forth. Combusother at the lower part of the reservoir. In tion is attented with light as well as heat." these sockets there are passages correspond-"It may sound strange," he again says, " to ing with other passages or vents in the cen-

and o, to come against the stud, m, and thus limit the vibration of the reservoir, k; if on bringing the shoulders, in contact with the stud, m, the upper passages should be open, then will the lower passages be shut, but on reversing the position of the reservoir, and bringing the shoulder, o, into contact with the stud, m, then will the lower passages be opened and the upper passages be closed, in which case the oil or fluid within the reservoir will pass down through the central stem into the cavity of the machine requiring lubrication.

In filling the reservoir with the oil or lusay that the most intense light is to be found, We perceive that Prof. C. G. Page, attorney tral stem, and are opened and shut by moving bricating fluid, it is first poured into the cup not on the earth, but in it. The whole of or funnel, p, from which the oil or fluid passthe reservoir around the central stem. One the sun's rays which reach the earth, gath. ered to a focus, would not be so intensely of the upper passages or vents controls the es to the reservoir, k, by means of the vent admission of the oil into the reservoir, while at or opening, q, which first passes centrally light as the center of the globe. It seems down through the stem till it meets the laterthe same time the other passages of the upper pretty certain that within the crust of the socket permits the air to escape from the al vent or opening, r; when the opening, r, earth, is a globe of fire, at least two thouis opposite the slot, s, as shown in figure 3, reservoir while the oil is being poured into it. sand miles in diameter." This opinion costs And the passage in the lower part of the the oil flows from the cup or funnel, p, into neither him nor any man of science anything the reservoir, k. But when this receiving whether it be true or false, but he departs reservoir and central stem controls the adpassage between the oil cups, p_i and the mission of the oil into the place to be lubrifrom reason and logic, by endeavoring to eson this subject will find it there. cated. These passages are so placed relativereservoir, k, is open, there is also open the tablish one hypothesis by setting up another. small vent, t, through the side of the socket, The Ericsson. There are no positive proofs of the earth ly to each other, that when the upper passa-