

acid gas. The bottles after the fruit is put into them, should be charged with this gas has taken measures to secure a patent for the under pressure, to expel all the air, then seal- same. ed up.

Preservation of Grapes.

We find the following translation of an article in a German paper, in the "New York Agricultor," which contains an account of the preservation of grapes in Russia :-

"A traveller who lived at St. Petersburgh during the winter season, states that he ate there the freshest and most beautiful grapes he had ever seen. To preserve them they should be cut before being entirely ripe. Do not handle the berries, reject all the damaged ones, then lay the grapes in a large stone jar holding about thirty gallons : the mouth should be narrow so that the grapes will not touch each other ; fill the spaces between them with millet; cover closely with a stone cover well fitted and cemented. Over this paste a thick paper, and let it be hermetically sealed so as to enitrely exclude the air. In this air-tight jar the grapes ripen fully, and acquire a flavor seldom attained by any other method and are preserved for two years in the best

Figure 1 is an outside front view; figure 2 is a view of the interior of the gague; figure 3 is a front view of the button and elastic cushion seat; figure 4 is a section of the lower part of figure 2. The same letters refer to like parts.

The front view merely shows the dial plate with the index around it, marked from 0 to 130; and the pointer or hand, according to the number at which it points gives indication of the pressure of steam in the boiler to which the instrument is attached. The gauge consists of a small iron box like the one represented, and may be placed either close to or at a distance from the boiler, such as the counting house in a factory or foundry, or in the captain's office of a steamboat. A is a coiled spring firmly secured at one end by a nut to a bar fastened to the case. It is secured at the other end to the working lever, D; B is a small rack attached to this lever: it gears into a small pinion (not seen) the axis of which is also the axis of the pointer or hand of the dial plate. The action of lever

D, sideways, moves the rack, B, and the pi-

[Fruits can also be preserved by carbonic improved gague for steam engines, invented ton, and G is a cushion of prepared india rub. stem, F, of lever, D, bearing upon it, is acted by J. L. Eastman, of East Boston, Mass., who ber, attached to the stem, F, covering the aperture at cavity, L, between the passage, M, and the aperture, J, in the button. This idia rubber cushion, G, is secured between the end of the chamber, K, and the inside ot the button, H. The steam, therefore, pressing upon this elastic cushion, will actuate the lever, D, through the stem, F, according to its pressure, and thus operate the rack, B, and consequently the index hand on the dial plate. This guage in construction and operation is simple and durable, and will be easily understood from the engravings and the description given. Such gauges are made with dials ranging for different pressures as required, such as one kind for 40 lbs. pressure, another for 100 lbs., another for 130, and another for 200 lbs.



upon by the pressure of the steam through the passage, M, in precisely in the same manner as the leather bag "at the bottom of the portable barometer" is acted upon by the pressure of the atmosphere on the mercury. These gauges are sold by the inventor in Orleans street, East Boston, Norris Gregg, & Norris, Gold street, this city, (N. Y.) and Scaife, Atkinson, & Okely, Pittsburgh, Pa. We are not able to give the prices of such gauges, but further information may be obtained by letter addressed to Mr. Eastman.

Steam Power on Farms.

The Marquis of Tweedale has succeeded perfectly in working plows by steam power. The distinguished English agriculturist, Mr. Meche, in a late article, says, "there can be no doubt but that very shortly every agriculturist must use steam power if he is to stand his ground in the race of agricultural competition. The want of it is already felt if not seen, by those who have not the means or inclination to use it. The time is approaching when a steam engine on a farm will be as common as the drill or threshing machine, although like them, it has to pass through the ordeal of dishelief doubt, and prejudice

condition.

A New Anasthetic Agent.

mon mentioned, and consequently the pointer From a report of a recent meeting of the on the dial. This lever, therefore, is actuated London Medical Society, it appears that a by the steam and moves the rack to the right, new anæsthetic material has just been discofarther from the pinion spindle according as vered, but whether it is superior to chlorothe pressure of the steam increases, and vice form or other agents remains to be ascertain-

ed. It consists of the common puff-ball, an K is a small close steam chamber into indigenous fungus in this country, and was which the steam pipe at M (as shown in detected by a Mr. Richardson, whose attraction was called to it by the fact that in some localities it is a common practice to stupify bees with it before extracting the contents of steam box, K, and a fulcrum for the spring lethe hive. The mode of administration is to burn it while in a dried state, and to cause made sharp and is held in a notch made in which oftentimes becomes so fixed in its seat far the week ending the 6th inst., there were the lower part of the said button; F is a stem that no dependence can be placed upon it. — 1,277 deaths.

This is a spring gauge, the operation of which is not due to an expansion of metal. figs. 2 and 3) from the boiler enters; H is a but simply the pressure of the steam acting metal block or button firmly secured by a upon an elastic medium through which it opescrew bolt, I, to form a seat to the small rates the indicating lever. It is this much different from the Salter Balance, that the lever, D, at E, wheer the foot of the lever is ver is not operated by a movable valve,

committee of the Royal Agricultural Society give the most extrordinary accounts of the rapid introduction of farm locomotive engines, during the last three years.

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The yellow fever is still very fatal in New Orleans, and the cases exceedingly numerous :