that quantity of bread.

not in all cases additious made by employ several substances for the purpose of whitening or otherwise improving the flour or fraudulently

make bread for the market, where much competition prevails, in order bread, and in some cases this adul- the raw flour. terant is used in bread made from sound flour by individuals who lack knowledge of the science of panary only, and if I am correctly informed, to some of our American bakeries they go a little farther, by the use of sulphate of copper, blue vitrol, in both bread and crackers, substance even more dangerous, when added to an article in daily use, like bread. A. I have already remarked, the lack of knowledge of the science and chemistry of panary termentation and its preparamen to add these destructive miueral chemicals, to supply the defi ciency in regard to the various

feel the astringent effects on the of beer and other liquors during it will corrode and eat the metal coats of the mouth, can easily con- lettue tation, con-isting principal- completely through. Sometimes ceive the effects of the same treat- ly of a fungoid plant. This plant the miller, having but one run of ment of the delicate coats was said to be first discovered in stone, if overpressed with business, of the stomach day after mait beer in 1680, and its history, as to supply his customers may allow day, to say nothing of the developed and traced by chemists it to run beyond it- proper grindalum transmitted to the blood, from that day down to the present, ing capacity on one dressing till it The extent to which this adulter- is full of interest. Immense and becomes perfectly glazed, and in ant is used is shown by the fact, increasing quantities of German or this condition, if overfed, will dethat out of a large number of sam- dried yeast, carefully prepared for stroy the gluten of the grain in ples of bread analyzed in the city of bread raising purposes, are now im- overheating by excessive fric-Boston, more than 700 contained ported into Europe and extensively tion. A good deal of bad flour alum. Dr. Henry Mott, in recent used in some of the leading cities is made in this way, and investigations, analyzed 24 samples of America in the manufacture of when it gets into the hands of baking powders and states he what is termed Vienna bread; its of the baker, he is puzzled to know found alum in all of them, and that chemical action on the flour when whether the flour or his yeast is in three of the samples submitted made into dough is quick and at fault. Where this happens in to him for inspection, in one he rapid, making it ready for the oven milling it will darken the natural found 19 per cent., in another 26 in a few hours, but on the other color of the bread, and however per cent., and the third as much as hand, if not quickly handled after sound the yeast may be, it will not 29 per cent., while others were al- attaining to a certain point, the rise to the same height in the most wholly alam powders. To fermentation dies and the dough process of baking, besides being this I have only to add my own rendered useless for any other pur- wet and soggy, making it difficult testimony, having travelled pretty pose. All kinds of brewers' yeast to bake except in a well tempered extensively as a journey man baker, made from malt is of the same na- oven, to which the generality of and been witness to its use by com- ture, being the outcome of the de our American stove ovens are not mercial bakers both in Scotland struction and decay of the grain adapted, where digestible bread is and England, and more especially previous to brewing, and the seum the object sought. in the great city of London, where er froth that viers to the top com- A good deal more might be said I have been employed, where the posing the yeast plant is decompos- on the art of cooking wheaten the amount of this adulterant may ed and in the putrefactive stage be bread, if space would permit, but vary according to the caprice of the tore it gets into the hands of the may be made the subject of a future boss from 8 to 12 ounces in a batch baker, hence it is not adapted for article. I would like, however, beof 500 to 600 pounds of bread, in lieu large batches of bread, and will not lore closing, to note a few items in of the same weight of salt due to make any kind of bread sale- regard to the preparation of Graable for the market, unless it ham flour or meal. Medical men Bread adulterants, however, are is fresh and immediately used; tell us, what we all believe to be altogether it is a substance quite true, that wheat meal is the most the baker. Millers not unfrequently foreign when mixed with wheaten healthy to use; but they do not flour, and imparts a musty flavor to instruct us in the art of how to the same at best.

increasing its weight. Rice meat, of flour scalded with nothing hop whole grain. As the quack doctor bean meal and corn flour bave been | water, or hops and malt, or both | facetiously remarked, you may eat detected in the products of the combined, according to taste or bran till you become all bone. In flour mill; but these are harmless havit of the operator, which forms our American household economy, in the face of chalk, sulphate of what is termed stock yeast, which where the whole meal is used, zinc, bone ashes, dolometic gyp- in mest large establishments in whether made into br ad by the use sum, china clay, and even heavy Scotland and England, undergoes of yeast formensparhave been used for that pur- a second process of fermentation, tation, as a general thing, the meal with an addition of potat es and is prepared whole as it comes from Alum is used by the bakers who flour previous to dough making, the mill; the bread made from it while a few others in the south West of Scotland use the malt stock principle that whole wheat will to cause weak or damaged flour to as a base, without potatoes, in the pass through a horse without x retain more water and whiten the form of quarter sponges made from trac in any of the nutritive quali

the various methods in the preparation of the yeast plant, which fermentation to improve the color | would occupy too much -pace on this subject, I will merely remark, remains, it must either be kilnnot with anding the thousand and one methods in receipt form to be found in cookery books and periodlicals of the day, the yeast maker for the same purpose, a chemical may repeat the process for a lifetime, but without a thorough know- the yeast with the whole meal, ledge of the nature of the material used, and its chemical action on the flour in the process of fermentation. the opera or cannot control it at brandue to the wheat previously will. The amount of good flour scalded with boiling water, into tion for bread raising purposes, is destroyed annually through failure which put a pinch of sal soda, mix one of the chief causes that lead of the yeast plant in the hands of alrogether, bringing up the dough the baker, commercial and domes tic, in all parts f the old world and the new, is witness of this fact. when light enough, bake. If the methods and forms in use among | Even such men as M Pasteur and commercial bakers. At the present other chemical celebrities, who day, in making yeast, there is a have made the various phases of great diversity of opinion as to the yeast fermentation their close study merits and system of management for years, could not define the in the various kinds of material chemical action of the yeast plant employed in bread fermentation. in bread fermentation, to as to These may be classed under three come within the scope of compreheads, viz, bakers' yeast, brewers' hension of the ordinary commercial quantity used. This I learned from yeast, and bread raised by the che- baker. It is well known to the trade an old maid more than 40 years appoint. No person need longer suffer mical process of using a strong that their stock yeast will de acid and a carbonate. This last generate in proportion to the named process yields unfermented | frequency of storing or starting or raised bread, and much of this it with seed of its own kind. and has lately come into use in For years back and up to the pres-England, but from the fact that ent day it is customary for the the materials used come properly baker to apply to his neighbor under the name of salts, but very craftsman for fresh stock to renew little common salt can be used in his own, sometimes as often as dough making, and hence the every second or third brewing, if bread made is tasteless and insipin not well versed in the art of pre-The same may be said of bread serving it One of the principal made under another process also in | causes i , the deteriors ion of stock | Castoria because it gives health to use in some parts of Eugland, yeast, if not scientifically prepared, the child; and physicians, because it known as aerate | bread. Here the | will generate a certain amount of contains no morphine or mineral. carbonic acid gas is prepared acid, this acid is the active destrucbeforehand in a condition of perfect uve principal in all vinous fermenpurity, and in a separate vessel. tation, its tendency is to decempose The gas is then forced into water, the starch and gluten of the flour, which becomes highly charged and it generated in the stock, will with it, like so a water, the flour increase in strength at every stage then mixed with this aerated or in its progress, and the result is, if arbonated water in a strong iron the bread is not actually sour, it ressel, under pressure. The dough | will leave traces of acid which can laus formed rises when put in be detected by consumers of keen oven, the gas with which taste after the bread is cold, more thas been charged, expands and especially in starchy, weak flour scapes on being withdrawn from that has been robbed of its gluten, be pressure of the mixing vessel, for the reason that the starch of the and still more in being heated. The grain being of a softer substance get of all these different operations than the gluten it yields first to bread making is intended, if the action of the acid. There are possible, to improve on the original two kinds of acid—that of mineral. of hop yeart fermen ation for bread and vegetable-the former may b taising purposes, but in all cases made strong enough to it solve and the mineral is there and cannot be decompose rocks bones and vari fold as a wholly vegetable productions study of metals, and the latter non, no matter how it may he man made to decompose and de-troy any pulated, besides the expense of the kind of vegetable substance. Its machinery and keeping up repairs p wer of decomposition may be

Brewers' yeast, as it is known, is learned by leaving a seel nife

cook it in the way of extracting is digestible enough, on the same ties of the grain in the process of Without attempting to discuss on assimilation and digestion. The outer coating or bran of the wheat composed in part of woody fibre, and to extract any nutriment that uried and reduced to powder, or reduced to a pulp by boiling or scalding. Previous to its admixture with the dough made from fine flour, that is, instead of working the fermentation should be set in fine flour in the usual way until it has risen, and the proportion of to the required stiffness by adding he shorts or fine middlings, and yeast be fresh and free of acid, you can produce a loaf of Graham bread fit for the table of the gods. The sal or washing soda is very powerful in softening hard water, and a small pluch of it won't burt if put into the tea kettle by lovers of a strong cup, besides a saving in the

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