BAKING POWDERS AND GLUCOSE SIRUPS, BY ROBERT PETER, M, D,

Professor of Chemistry, etc., in Kentucky Arricul-tural and Mechanical College: Chemist to the State Geological Survey, etc., etc.)

Although several communications consequently occurs. These are prohave appeared in the Scientific Amer- babilities of deep import. Aluminum jean on these subjects, the writer be- chloride, forms insoluble compounds lieves they are not yet exhausted of with albuminous, gelatinous, and oththeir interest. The possibilities con- er organic matters, and when intropected with their bearing on health duced into the blood in quantity cause or disease and mortality deserve fur- sudden death, and doubtless when ther discussion, for which I have no taken up in repeated minute quanti-Joubt you will freely give a few more ties, will cause alterations of tissues aplumns in your highly useful period- and coagulations of the circulating sultation it was decided to select Frankical.

The obvious fact is, as proved by disease.

the analyses of baking powders by The use of chloride of tin by reckothers as well as by myself, that des- less manufacturers of glucose sirups, to be a long exciting run. Another iccated alum is substituted for cream etc., proved by numerous analyses delay and another sensation spoiled. of tartar in many of our popular "bak- by others as well as by myself, is especially to be reprehended, as these

ing powders." The United States Patant Office has products, sold under various names, Wiles, a surgeon of Thorncomb, Dorset sunctioned this use or abuse of alum as "golden sirup," "maple sirup," by their letter patents, and alum is "sugar-house molasses," etc., or the two cases of maliguant diphtheria out of very much cheaper than cream of tar- glucose in the solid form mixed in the tar; answers equally well to set free soft granular sugars, are in very genthe carbonic acid which makes the eral use, greatly to the detriment of American paper concerning a practitionbread light, and may also make a the general health. The people every- er who used wilk of sulphur for infants, whiter loaf than that deares article. where should be put on their guard and flour of sulphur for older children and The manufacturer can make more against this insidious slow poisoning profit at a lower selling price, with and advised against the use of any alum powder; more especially if he sirup, etc., which leaves a metalic a day, swallowed slowly, and application mixes them with a large proportion taste in the mouth. Three pounds of good pure Louisiana brown sugar, of starch,

By heating the amonia alum to a cer- pint of water, will make a perfectly tain temperature it will be caused to wholesome sirup, far preferable to any part with its water of crystalization, of the tainted sirups of the present and will lose part or all of its com- market. bined ammonia, according to the tem-

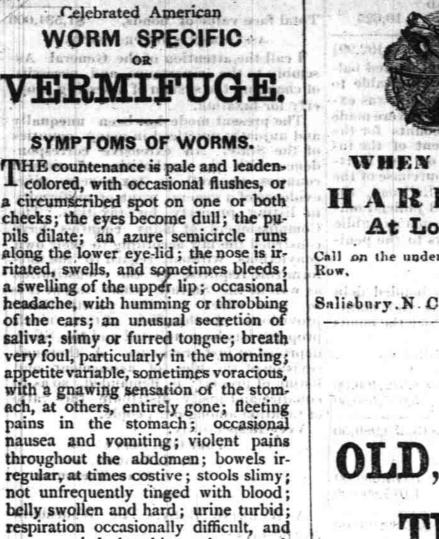
stomach will doubtless be decomposed Raleigh Observer : The court met at In the duodenum, where it will be 10 o'clock, his honor Judge A. S. Seymour on the bench. The bar was fillrendered insoluable by contact with will a rain be subjected to an acid sol-

ed with prominent lawyers, both resithe alkaline bile; but in the execum it dent and from abroad, Mr. Swepson was present, and a cloud of witnesses vent, an a second danger of absorption thronged the court room. The case attracted unusual attention on account of the magnificence of the crime charged and the high reputation and eminent services of nearly all the witnesses. The attorneys representing the State, Messes, Deverenx, Gatling, Gilliam, A. M. Lewis and Solicitor Collins were grouped together, while the defendant's counsel, Messrs. Fuller, Fowle, Ruffin, Suow, and Badger were seated apart, near Mr. Swepson. After confluids resulting in obstructions and lin county, as the change l place of trial, and Wednesday of the first week was the day set for the trial. Thus ended in a switch-off what promised

A Cure for Diphtheria. "Mir. John S. writes to the London Times that, after some nine or ten he had been called to ap tend had proved fatal, the mother of a sick child showed him an extract from an adults; brought to a creamy consistency with glycerine. Dose, a teaspoonful or more, according to age, three or four times of the same to the nostrils with a sponge. Result- He did not lose a case there or The chemical facts are as follows: boiled in a clean iron vessel with a elsewhere, and he succeeded in saving life when the affection had almost blocked the throat.-Scientific American.

> Greensboro New North State : Wednesday night of last week, about half-past 11

Aluminum and tin salts are both o'clock, some one knocked at the back perature and time of exposure to it, used as mordants by the dyer, be- door of the store of Messrs. Balsley & Son leaving simply aluminum sulphate, cause of the strong attractions of the Young Jacob Balsley, who was there mixed with more or less free sulphuric oxides of these metals for organic alone, got up and opened the door to ad-



throughout the abdomen; bowels irregular, at times costive; stools slimy; not unfrequently tinged with blood belly swollen and hard; urine turbid; respiration occasionally difficult, and accompanied by hiccough; cough sometimes dry and convulsive ; uneasy and disturbed sleep, with grinding of the teeth; temper variable, but gener-

THE GENUINE

DR. C. McLANE'S

ally irritable, &c. Whenever the above symptoms are found to exist,

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IT DOES NOT CONTAIN MERCURY

in any form; it is an innocent preparation, not capable of doing the slightest injury to the most tender infant.

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the ills that flesh is heir to," but in affections



acid and undecomposed aluminum sulphate, This mixture when brought together with bicarbonate soda, in the paste or dough, in the presence of the water will decompose the soda salt, especially when moderately heated, and the carbonic acid of that sal set free will inflate the pastry and make it light and spongy, At the same time the alumina of the alum is separated in the form of aluminum hydrate, and harmless sodium sul-

phate, or Glauber's salt, is produced. The nature and results of the chemical decomposition are correctly stated by Professor Doremus, as well as by the patentees of these baking powders. There is no alum in the bread or other article prepared with these powders, but only the products of its decomposition, viz; Glauber's salt, in too small quantity to be active, and precipitated aluminum hydrate.

But at this point a new question arises, and one of weighty import: Is it not probable that the goutinned in- dyspepsia or chronic inflammation gestion of aluminum hydrate with our daily food, may, in the long run, induce disease and shorten life ?

combination with silica, as it is in clays, it is not readily soluble or decomposable in week acids; but alum- found as a regular constituent. The ina combined only with water, or even propriety of introducing it into our when the water has been separated by daily food is not properly to be asignition, is much more soluable. The certained by costly and broadly hazheat which suffices to bake bread will not separate the water from aluminum hydrate, and it hence exists in the bread in a condition readily to form salts with even weak acids. What, then, is the probable action of this aluminum hydrate in the processes of the digestion and assimilation of the food in which it exists as an ingredient? In the stomach, under the action of the acid gastric juice, it is likely to be dissolved, and to form good bicarbonate of soda until somealuminum chloride; but, because of the great affinity of aluminia for thing equally harmless is discovered? albuminous and other organic matters as well as for phosphoric acid. it probably enters into combination with

mit him, when he was struck on the head compounds. Aluminum salts for the with a stick and knocked senseless. Forsame reason are used in preparing tunately Mr. Balsley saw the motion of white leather, and the observations the man's arm when he struck the blow, of Orfila show that when given to and he gave the door a violent push, animals they cause a thickening of which closed it and kept the robber from entering. Mr. Balsley lay in a senseless the coats of the stomach and bowels, condition for some time, and the back of and an appearance as though they had his head is badly cut. been tanned.

It is true that Orfila contended for Accident .- Mr. Merrimon Webster, or the harmless nature of alum in small Alexander county near Cedar Run post office, went out into the woods on the doses, and Wibmer and others exevening of the 30th ult., to get fire-wood. perimented on themselves by taking He cut down a dead tree and it fell against it in small doses for some weeks toanother dead one causing the latter to gether without any sensible results. fall back across the stump of the former Very probably the slight impairment striking Mr. W. on the head. The family of tissue was not sufficient to produce awaited his return until dark, then made a search finding him almost lifeless just manifest disease. But had they conwhere he was knocked down. He lived finned their experiments for years at until the following Tuesday night when all their daily meals, no doubt the he breathed his last. He leaves a wife, functions of the stomach would have several children and many relatives to mourn his loss .- Picdmont Press. become impaired by the thickening

of its coats and the alteration of its glandular tissue under the action of the dissolved aluminum salts, and would be the result in time.

That alumina is not friendly to ormatism and General Prostration of the Nervous Sysganic life is shown by its almost gentem, with good success. I recommend VEGETINE as It is true that when alumina is in eral absence from the composition of vegetables and animals. In only a man, is a well-known business man in this place, having one of the largest stores in Springdeid, O. few plants of the lowest order is it MR. H. R. STEVENS with Inflammatory Rheumatism. Our minister' wife advised me to take VEGETINE. After taking one bottle, I was entirely relieved. This year, feelardous experiments upon the people ing a return of the disease, I again commenced takat large, or with the object of cheap-ing it, and am being benefited greatly. It also great-ity improves my digestion. Respectfully, Mus. A. BALLARD. ening the production and increasing 1011 West Jefferson Street. the profit on baking powders. Nor

Charlotte Observer says, while Mayor

salucial shills and the

SAFE AND SURE. is there any necessity for such heroic MR H R STEVENS. In 1872 your Vegetine was recommended to me, and yielding to the persuasions of a friend, I con-sented to try it. At the time I was suffering from tampering with the public health. Why lay aside the time-honored yeast

general debility and nervous prostration, superin-duced by overwork and irregular habits. Its wonor ferment, which, when skillfully derful strengthening and curative properties seemed and carefully prepared and used, is without injurious influence? Or, if we must have "quick-rising," why not use the pure cream of tartar and

VEGETINE.

edicine for such complaints.

OUR MINISTER'S WIFE.

live I never expect to find a better. Yours truly, W. H. CLARK, Yours truly, W. H. CLARK, 120 Monterey Street, Alleghany, Penn

VEGETINE.

The writer is informed that there The following letter from Rev. G. W. Mansfield, occur many more cases of Bright's disformerly pastor of the Methodist Episcopal Church, Hyde Park, and at present settled in Lowell, must ease and other forms of disease of the convince every one who reads his letter of the wonles of VEGETINE as a

the liver, and in all billous complaints Dyspepsia and Sick Headache, or diseases of that character, they stand without a rival.

AGUE AND FEVER.

No better cathartic can be used preparatory to, or after taking Quinine. As a simple purgative they are unequaled.

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stores the meluhous of an excellent horse, ox And is perfect in all its keys. We are aware that many will cry IMPOSSIBLE, but our reply is TRY IT. It cars i fast-rot, hoof-all, hollow horn, grub, screw-worm, choulder-rot, mange, the bites and IF YOU DO NOT FIND THAT WE HAVE THE SHORTEST AND LIGH stings of yol enous reptiles and insects, and every EST PISTON ACTION. THE ONLY CLEAR BORE AND THE BEST such drawback to stock breeding and bush life. CORNET IN THE WORLD. YOU CAN RETURN IT AT OUR It cures every enternal trimble of horses, such as lameness, seratches, swimny, sprains, founder, EXPENSE. wind-gall, ring-botth, etc., etc., The Mexican Musiang Liniment is the quickest IMPORTANT. cure in the world for accidents occurring in the family, in the abacace of a physician, such as burns, scalds, sprains, cuts, etc., and for rheuma n future all our Cornets will be SILVER PLATED! The \$55 Cornet will be plated a tism, and stiffness engendered by exposure. Parneatly finished with what is known as the Satin Finish. The \$70 Cornet will be Triticularly valuable to liners. ple Silver Plated, Gold Mounted and Burnished. We finish this instru-It is the cheapest remedy in the world, for it penetrates the muscle to the hone, and a single ment as elegantly as is possible to do. uplication is generally sufficient to cure. Menican Mustang Liniment is put up in three NO DISCOUNT. rea of bottles, the larger ones being proportion sly much the cheapest. Sold everywhere. Instruments sent for a trial of FIJE DAYS before acceptance. Photographs of our Me formet Sent on application. It is foolish to condemn before trial. If our Cornet is not-all we represent we pay ill-han for transportation. Address all orders to CONN & DUPONT Elkhart, Indiara. Warranted to Cure UR LUNGS AND LIPS BY ENNISS' CHICKEN CHOLERA CUREor money refunded-if directions are strictly followed. If after Trial Our Mouthpiece does not enable you to play long PRICE 25 CENTS, at ENNISS' Drug Store. 26:11. without fatigue and play higher with less effort, Send it Back and Receive in Return Your Money PRESCRIPTION FREE Manhood and all disorders brought on by India ANY SIZE \$1.00. cretion or excest. Any Druggist has the ingre-dients. De. W. JAQUES & CO., No. 139 West Sixth Street, Cincinnati, O. Subscribe for the Henderson, Blackmer Attorneys, Counselors and Solicitors. SALISBURY, N.C. The Only Ametuer Band Instruction and News Journal Januay22 1876-tt. PUBLISHED IN THE UNITED STATES. Subscription Price \$1.00. KERR CRAIGE, CLUBS OF FIVE SUBSCRIBERS, (to one address,) WITH ONE OF OU Attorney at Lale, PATENT MOUTHPIECES TO EACH SUBSCRIBER FOR ONE DOLLAR EACH SUBSCRIPTION. Salisbury, N. C. CONN & DUPONT, Address, Mt. Vernon, Rowan Co., N. C. Elkhart, Indian TO THE PRESS : Please show this paper to the leader of the Band in your place, " be a benefit to the whole Band. 04 I stake my reputation as a musician and my integrity as a man in fully endersing of the above; and invite correspondence from members of bands who know me. W. H. NEAVE, Salisbury, N COR DEEDS & MORTGAGES

these, to a certain extent at least. If kidneys than formerly. Are we to attribute this to chloride of tin in glu- MR H R STEVENS. these compounds are insoluable in the cose sirups and sugars, or to alum in stomach solution, no other harm will result but a waste of a certain quantibaking powders, or are not both very ty of the essential phosphates and alliable to suspicion ? Even the cream tartar baking powbuminates of our fuod, which waste may be measurably supplemented by ders may come in for some share of the introduction of some superphosguilty responsibility because of the phate into the baking powders, greater amount of alkaline salts deter-

But it is more probable that at least mined to the kidneys by their habita portion of the aluminous compound ual use, and that most chemical of all is retained in solution in the acid chyme baking powders, Horsford's, which and is absorbed into the blood vessels with the commendation of Liebig, in the coats of the stomach, to act might seem to be pathologically innolocally in thickening or otherwise al-cent, as it is chemically excellent, may tarking the past few weeks I had a scrotulous tering their delicate coats; or meeting yet, by a possibility, give to the renal with the slightly alkaline venous organs too much earthy phosphates to blood, rich in albuminous compounds, excrete in solution. "Give us," thereto induce a tendency to coagulation, fore, our "old-fashioned daily bread" which, however slight, may in the until something better is discovered course of time cause obstructions in than is found in all the baking powimportant glandular organs, especial- ders. ly in the kidneys and liver, interfering with their healthy functions, and

in the end causing fatal disorder.

Suith was out skating last Saturday he The pertion of the albuminous com- fell, was stanned for several minutes, and pound which is not absorbed from the received a painful out above the eye,

cleanser and purifier of the blood. 1900 HYDE PARK, MASS., Feb. 15, 1876. 0

Dear Sir .- About ten years ago my health failed *0 through the depleting effects of dyspepsia; nearly a year later I was attacked by typhoid-fever in its year later 1 was attacked by typhoid-lever in its worst form. It settled in my back and took the form of a large deep-seated abscess, which was fifteen months in gathering. I had two surgical operations by the best skill in the state, but received no perma-nent cure. I suffered great pain at times, and was considerably weakened by a protuse discharge. I also lost small pleces of bone at different times. Matters ran on thus about seven years, till May, 1814, when a friend recommended me to go to your

-*0 1874, when a friend recommended me to go to your office, and talk with you of the virtue of VEGETINE. did so, and by your kindness passed through your manufactory, noting the ingredients, &c., by which your remedy is produced. By what I saw and heard I gained some confidence

IN VEGETINE.

I commenced taking it soon after, but felt worse from its effects; still I persevered, and soon felt it was benefitting me in other respects. Yet I did not see the results I desired till I had taken it laithfully see the results I desired till I had taken it faithfully for little more than a year, when the difficulty in the back was cured; and for nine months I have enjoyed the best of health. I have in that time gained twenty-five pounds of

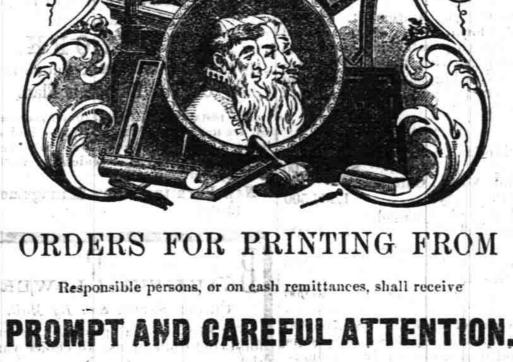
swelling as large as my fist gather on another part of my body. I took VROETINE faithfully, and it removed it level with the surface in a month. I think I should have been cured of my main trouble sooner if I had taken larger doses, after having become accustomed to its effects. Let your patrons troubled with scrofula or kidney

disease understand that it takes time to cure chronic diseases; and, if they will patiently take VEGETINE, it will, in my judgment, cure them. With great obligations I am Yours very truly. G. W. MANSFIELD, Pastor of the Methodist Episcopal Church,

and the all the all the set of the

VEGETINE Prepared by

R. STEVENS, Boston, Mass. Vegetine is Sold by all Druggists.



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