THE FARM AND GARDEN.

MAKE A TEST OF THE SILO.

THE IDEAL DAIRY FOOD.

Fresh grass, succulent and rich, is the ideal food for the dairyman, and it produces more milk of a good quality than any of the highly prepared foods in-vented by man. This is the standard summer food, and the dairyman needs to imitate it for the ideal winter food so near as possible. When the question is analyzed, it will be found that rich grass produces plenty of fine milk because the cows like it, and because it contains the very best milk-producing elements. The ideal winter food must then bear two stamps upon it. It must be relished by the cows, and it must contain certain constituents which can readily be turned into milk .- Courier Journal.

PEED THE PIGS IN WINTER.

The well-known fact that animals do not grow as rapidly or take on flesh as readily in cold weather as in warm leads many farmers to delay feeding grain to their pigs until spring. Thus there is a long period in which very little growth is made. Not only is time lost by this method, but the animals get in a condition less favorable to fattening than they were at an earlier period. If warm pens are provided and suitable care is given, feeding can be profitably conducted even in the coldest weather. If these points are neglected the animals will return no profit and make very little growth, even though a moderate quantity of grain is furnished .- American Dairyman.

GRINDING CORN AND COB TOGETHER.

For a long time corn-cob meal was divided, because analysis did not show that it had much nutritive value. Yet the story of the woman who kept her cow mainly on corn cobs and refuse from the table and kitchen showed that cobs had some value. The experience of farmers also confirmed the value of corn cobs when ground with the grain. Corn meal alone is too condensed food. It packs in the stomach, and even mixed with cut hay it is too heavy feed for horses, Grinding the cob with it enables the saliva to mix through the mass, and more of the nutritive value of the grain is extracted. But it is important that the cob be ground as finely as possible. If the cob is moist, as it is apt to be early in the winter, it will pay to mix equal no time to attend to his fowls better tell parts of oats or barley with it before him to sell them at once. The best grinding. This enables the miller to grind even damp corn and cob much finer than would otherwise be possible. Unground pieces of cob are indigestible, and instead of making the meal more nutritive they detract from it .- Boston Cul-

CURING SHEEP-KILLING DOGS.

A live stock paper gives the following way to cure dogs of the sheep-killing propensity: Young dogs can be made so thoroughly afraid of sheep that they front ones; or the covering membrane of will not attack them in their mature years. Tie the dog to the head of a ram and let possibly be procured by sponging the about eight feet of rope intervene, then gum with tincture of myrrh, giving the place them in a clear field. The repeated ox a quart of raw ituseed oil, and feedcharges of the ram will so disgust the ing soft food, as bran mash. dog with the sheep business that he will Relating in cattle indicates ever after avoid the ovine race. An old dog who was caught in the act of killing sheep was cured of the propensity in this manuer in my presence many years ago. As the ram continued to charge upon the dog the latter worked closer and closer to the fence and when he had reached it the ram drew back, and as he made the final charge the dog went over the fence with a "ki yi" that made the onlookers laugh uproariously. The canine could only touch his hind feet to the ground, and as the ram would back up to make another charge this would draw the dog up a lit-His struggles to get released and he ram trying to get a fair clip at him e-sawing across the fence that as a circus to witness. This le treatment, but all said "Good for him." He lived several rs, but was not known to molest sheep after that .- St. Louis Republic.

A UNIQUE HOT BED.

The following suggestion we find in American Garden; Take a hogshead and bore two or three boles in the bottom. Set it down its full depth in the ground, on a slant, so that the southern side is six inches lower than the northern. Take some good fresh stable masure and thoroughly mix with it equal quantity of leaf mold or good th soll. Let this lie in a heap until fer-entation has taken place, which will be two or three days, when it should be ned and allowed to heat and ferment two or three days longer. Then put it in the hogshead and tread well down until the latter is about half full, allowing it to stand till heating takes place again. Fill in with six inches of equal parts of well rotted manure and garden mold well mixed. Cover with a sash. If sash is not convenient, a large piece of coarse muslin may be laid over the head of the hogahead and fastened by means of a tightly fitting hoop.

When the heat of soil is about eightyfive degrees sow the seed. Water with topid water, and give air every pleasant day by lifting the cover. On very cold frosty nights, or in snowy weather, cover sith boards of matting. The seeds may be sown in drills, and the plants thinned out as required .- New York Wor'd.

POPCORN FOR CROP.

The dark-colored is not wanted by consumers. All the so-called "golden" varieties should be tested as to popping qualities before they are planted; some of them have a thick, tough bran that is undesirable. Common rice corn sells well and is a good yielder. Popcorn sive, as it costs six or seven cents | troit Free Press.

per bushel of forty pounds—two level half-bushels. Unless the seed is exceptionally pure, some of the oorn will be The farmer who has not yet tried a too large to be marketable. Some seedsthe field would do well to find out the for pure seed, and it appears so; but a nearest sile and go and interview the crop from it will have mixed cars. owner of it and see for himself the re-sults. If he can get in his hay for \$1.50 of 100 from this cause. Care must be per ton, all costs counted, he may go on taken to cure the corn well. The silks making and feeding hay and leave the and ribbon should be taken off, and the sile to others, but if his hay costs him corn be cribbed for a year. Consumers more than that he will find the silo an economy, even to store his green clover in.—New York Times.

do not want it until one year old, as it will not pop well before. From fifty to sixty bushels of forty pounds can be raised per acre, and the average price is nearly three cents per pound, although one year ago I sold 450 bushels at two to two and one-half cents, owing to overproduction. It is absolutely necessary to exclude all mice from it. or discoloring is ruinous. When everything works right, popcorn is a paving crop, but it requires a good, fine soil, pure seed, a good crib, and ability on

> FARM AND GARDEN NOTES. A wet bath to ducklings is generally

> the part of the grower to wait a year or

two for returns .- Rural New Yorker.

Oil meal and bran makes a good feed for growing pigs.

If you have the means of cooking food for the hogs, try it.

The parent colony is the colony from which a swarm has issued.

Keep the stables clean and let the orses and cows have a good bed. Every apiarist should aim to keep his his extreator and receptacles

Musty, dirty hay is the cause of heaves. It does not pay to feed such hay and de-stroy the usefulness of a good horse,

Manure in the barnyard is as much dead capital as is money lying in a safe. Set it to earning something as soon as

Horses will stand a great deal of cold, nevertheless an open field with a barbed wire fence for a shelter is not the best place for a horse in cold weather. Contrary to common belief a Jersey

will make excellent light beeves. The meat is tender, juicy and well flavored, and the Jersey steers make good light working oxen. A little oil meal given occasionally

with other food will prove beneficial to fattening hogs in preventing constipation and maintaining the appetite. It must not, however, be fed to excess. Keep up an intimate acquaintance with the calves. Keep them clean and treat

them kindly. Teach them to lead readily with a rope. The lesson now given will never be forgotten, and will prove very useful when the animals are matured. There is no excuse for having a slovenly yard of fowls. If a man has

thoroughbreds soon become scrubs in the hands of a slovenly poultryman. Hasty thinks three pounds or less of honey will make a pound of wax; Simmins less than 61 pounds; tradition, twenty pounds. "Don't we stick to that from mere habit?" asks Dr. Miller in Gleanings. "I do. Has there been a single experiment of late years to

confirm it?" An ox at ten years of age may begin to use his teeth naturally, especially the the fangs may be diseased. A cure may

Bloating in cattle indicates indigestion. The treatment should be as follows: Give a pint of raw linseed oil and repeat in two days. Give bran mash or cut hay, wetted with warm water, adding bran or cornmeal. The emaciation and rough coat will disappear as soon as the digestion is restored. Some linseed steeped in hot water would be a useful addition to the feed.

We notice reports of a number of milkdealers, or rather creamerymen, who are in hot water by paying more to farmers for their milk than it is worth. If the farmers will sell their milk or any product to a man on time who offers to pay tham more than their product is worth, they must soquer or latter be losers by the operation, for no man that intends to pay for what he buys can afford to pay more for an article than he can sell it for with profit to himself and pay the producer for his product.

Now examine your young trees carefully and see what insects have tucked themselves away for the winter. You will find various web-covered things glued to the branches, also nests of eggs here and there, and plant lice hid in cracks and broken places in the bark, on trunk and branches. Destroy now everything of the sort and thus save yourself a big job next summer. We have found more apple-tree borers on that part of our orchard near a wood-land than elsewhere—five times as many. Hence we infer that timber of the woods hurbors these insects.

Why Cannon Burst.

The bursting of ordnance has been the special study of M. Vielle, the inventor of the smokeless powder, who has communicated a paper on the subject to the French Academie des Sciences. Cannons sometimes burst under a lower charge than the metal is calculated to bear. By means of a delicate process of registration M. Vielle finds that the pres sures at the moment of burning the powder do not shed themselves uniformly over the gun throughout its length, but that a wave of pressure starts at the seat of the powder and transmits itself. On its birth it is capable of exercising a dvnamic action thrice that represented by the effort equally distributed over the gun .- New York Witness.

A Desirable Fruit Can.

The manufacture of automatic cans for canning fruits is now a great industry in California, the machine for this purpose being a master piece of ingenuity. makes a very tender growth at first, and process is begun by a set of steam seis-it is best to seed heavily and thin when sors cutting a piece of tin 11x20 into sur or five inches high. It will prob-bly yield bost in drills, but as I have then fed by a rosin flux of oil; then, by wer checked any I caunot speak from means of clamps on a revolving wheel, persence in comparative tests. Two the cau is formed, carried through its r three stalks can be left in a hill, the various processes by means of steam this being afteen to eighteen inches transways to the finishing touch, a hymrt in the row. As the growth is draulic machine, that is, which dips it ender, attention must be given to thin- into water and subjects it to a test in time. I left a field of aix acres pressure, lastly disposing of it in crates, the corn was a foot high, and the a perfect can for fruit, made without any inside solder and free from acid.—De-

TEMPERANCE.

COUNTING THE COST. Crouched on the dingy, old stone pier,
Watching the water dark and deep,
Sits poor, old, blear-oyed Carl Le Mere,
Mut'ring as one in troubled sleep;
"O artful fiend, with cursed bowl,
You've robbed me of all that man count

dear; Drowned all my hopes, my life, my soul— Now mock in delight at my pain and fenr.

"Friends, home, happiness, heaven and rest, Releatless you've taken. What have I now?"
The voice rose higher; the hands were

In auguish against the fevered brow;
For all of this, O flend accurst,
What have you given? You answer It sweeps o'er my soul in burning thirst,
An earnest, in truth, of the drunkard's

Backward he sank to the pier again,
Mut'ring, and gased in the water deep;
'Oh, for an end of the gnawing pain,
Oh, for the old-time restful sleep!
Water, you ever have been a friend,
Cover and hide my wretched face;
Let me come to the hitter end,
Cradled at last in thy cool embrace."

The veil of twilight sank over day,
Along the headlands the beacons shone;
But never a cheering, hopeful ray
Came to that soul as it watched alone.
The night wind echoed the sailor's song.
The waves mouned sadly against the pier;
They had not meant to do a wrong
In answering poor old Carl Le Mere.

Sadly they sobbed along the shore,
And laid their burden upon the sands.
Then rolled away, with muffled roar,
To beat the "death march" in other

passers look on the wreck, shore And looking, linger to count the cost— lone, happiness, life and hope in heaven, All staked with a demon, and lost—all

-Jenny L. Eno, in Temperance Banner,

THE ONLY SAFE WAY. Archdeacon Farrar, in one of his temperance addresses, remarks: "Cruikshank, the artist, offered \$500 for proof of a violent crime committed by a total abstainer; and the money remains unclaimed to this day. I offer as much for proof of any one case-either in the church or out of it—where drunkenness has been cured without total abstinence. Under present circumstances, the only safe way of drunking—as an Irishman put it—is to 'leave off before you begin.'"

THE DRINK EVIL IN RUSSIA. In a private interview with Miss Willard, George Kemmn says: "One of the worst features of the Russian Government is, that the tax on whicky is the largest item of the trea sury. Still worse, the sale of intoxicants is sunctioned by the Russian priesthood." The dedication of a church is an occasion for the whole conduction to so on a surye, priests dediction of a church is an occasion for the whole population to go on a spree, priests included. If, however, the men of a commune get together and declare they will not have liquor sold, it is prohibited. In this way many villages have prohibition. There has been no general temperance agitation, but the people are becoming educated by seeing the terrible effects of drink, and there is now a class of total abstainers, numbering some fifteen millions. These are the dissenters irom the State church, and are the best people in Russia.

"I havedrank whisky every day for thirty five years," remarked a gentleman of sixty, rather proudly, "and I don't see but I have as good a constitution as the average man of my age; I never was drunk in my life." He was telling the truth, but to learn the whole truth you would have to study his children. The oldest, a young man, was of a remarkably nervous and excitable temperament, as different from his phiegmatic father as possible; the third, a young lady of seventeen, was epileptic and always had very poor health. Did the father's whisky-drinking have anything to do with these facts? The instance may be duplicated in almost every community. Think over the families of your acquaintance in which the father has long been a moderate drinker, and observe the THE INEXORABLE PACTS OF HEREDITY. sequaintance in which the father has long been a moderate drinker, and observe the facts as to the health of the children. The superintendent of a hospital for children at Berne, Switzerland, has found by careful abservation, that only forty-five per cent, of hose whose parents used intoxicating liquors habitually had good constitutions, while sighty-two per cent, of the children of temperate parents had sound bodies. Of the children of insbriates only six per cent, were healthy. Can any man "drink and take the consequences," or must his children take the consequences!—The Voice.

WHO BUILD THE LIQUOR PALACES? In a paper presented to the Twentieth An-nual Convention of the Catholic Total Absti-nence Union of America, Mr. T.V. Powderly

convention of the Catholic Total Abstinence Union of America, Mr. T.V. Powderly
said:

"Before the delegates to this convention
separate to go to their homes, I would ask
them to go on foot through the streets of
Pittsburg and study the temperance question as they go. They will see handsome
buildings devoted to the sale of liquor on the
principal streets, and if they estimate the
cost of one of these buildings they will learn
that it runs away up into the thousands, far
above the reach of the workingman's income.
On one of the streets of Pittsburg will be
seen a saloou, the plate-glass front of which
is worth \$5000, the bar and fixtures are
worth \$10,000, the paintings and other decoraations are valued at \$7000. All of this is
separate and apart from the building itself,
and of the plot of ground on which it stands.
Stand guard at the door for twenty-four
hours, and thousands of men will be seen
passing in and out. Of the number, ninetenths will wear the garb of labor; they will
be the workers in the mill and factories that
make Pittsburg famous and foremost in the
history of manufacture in the United States.
Follow one of these men to his home and
contrast its appearance, condition and surroundings with the palace he stopped at on
his way home, and not one lota of semblance
will been seen. Inquire if he owns the
house he lives in, and it is more than likely
that the answer will be in the negative. Ask
him why he cannot afford to live in a better
or more comfortable home, and his reply
will he: "I cannot afford it." Take a walk
through the entire city and it will be seen
of the toilers are cheap and poorly furnished.
Go still further and it will be discovered that costly and well furnished, while the homes of the toilers are cheap and poorly furnished. Go still further and it will be discovered that the men who live in the filly-ventilated, poorly-furnished, stuffy, unhealthy tenements or dwellings, are the very men whose dimes and dollars have furnished the 'Paluces of Hell' with plate-glass windows, axpensive bars and fixtures, costly paintings and neat surroundings."

TEMPERANCE NEWS AND NOTES. The San Francisco Chronicle gives the wine product of California for 1890 as 18,-200,000 gallons.

The Sheriff of Glasgow, Scotland, says 30,000 people get drunk in that city every Saturday night.

The Chicago Inter-Ocean estimates that a aloon keeper can live and even get rich if e has twenty "regular customers." The King of Siam has issued a proclama-tion prohibiting the purchase, sale, or use of intericating liquors in his dominion. Germantown (Tenn.) ladies at a late village election, nominated a Prohibition ticket, and prevailed on their husbands, brothers and

ons to elect it. Recently a vessel salled from a Belgium port for West Africa, having on board four-teen missionaries, four hundred and sixty casks of gunpowder, eleven cases of gin and ten thousand casks of rum.

The Woman's Christian Temperance Union, of Washington, D. C., has been petitioned by a mother who wishes the union to use its influence to stop the sale of rock-and-rye drops to children.

Along one side of the Victoria Road a London cases was that were fifth house is

London paper says that every fifth house is a nublic house—which, being interpreted, is a group-shop—and, on a late Staturday oven-ing, from 8 o'clock to 11, the appalling num-her of 3126 persons was counted entering one of them.

Dr. Kate Bushnell left Chicago on her great tour of the globe in the interests of the Woman's Christian Temperance Union. She represents 500,000 women, and wherever she goes she will "organize, instruct and encourage" the branches of the Order. She has traveled extensively and is a physician, erater and author of seanowledged ability.

Chronic Rheumatism

And serious disorder of the liver and stomach have troubled me for more than ten years, during which trouced me for more time I have used almost every medicine recom-mended without finding any relief whatever until I tried Hood's farmsparille. This has deme me more good than anything dae that I have ever taken, and I take pleasure in recommending it in the highest terms. It has been worth its weight in gold to me. Expression Maxim, Limerick Control Pt. -FREDERICK MILLIO, Limerick Centre, Pa.

Hood's Sarsaparilla Sold by all druggists. \$1; six for \$5. Prepared only by C. L HOOD & CO., Apothecaries, Lowell, Mass.

100 Doses One Dollar PENSION JOHN W. MORRIS, Successfully Prosecutes Claims. Late Frincipal Examiner U.S. Pension Bureau. 3 yes to last war. 15 adjudienting claims, atty since

A Balloonist's Fright.

H. Hennequin, of Paris, France, who has had some experience in aerial navation, arrived in the city yesterday from San Francisco on his way home, and during his stay in Chicago called on Mr. Pennington, of airship fame, at the Grand Pacific Hotel. Mr. Hennequin was in Fontenay at the time Tissindler and Gower had their startling adventure in a balloon. The traveler is an intimate friend of Gower, and tells the to y of their fall of a mile as the balloonist related it to him.

"They ascended from Tissindler's house in Paris, and floated off toward Vincennes, and as the wind was some what strong from the northeast, the two men soon disappeared from the view of Paris, having risen to a height of about 1500 feet. When they had reached Fontenay, they were fully 6000 feet above the earth. They were sailing along smoothly, watching the scenes below, when suddenly they seemed to fall into a hole in the atmosphere and down they went at a terrific rate. Gower glanced at the needle of the verticle It was traveling with lightling speed. A roar filled their ears, and both men thought their time had come. Nothing had happened to the balloon, It was in perfect condition, but there seemed to be no air to hold it up. sindler desperately threw out sand-bags. They were falling so rapidly that the bags were left far behind and disappeared above them. The earth seemed to be rushing at them with the speed of a comet. There seemed to be no atmos-phere left, and they could scarcely breath. As a last resort Tissindler threw over the anchor and the remaining ballast, and the big balloon, after a rush of a mile through the sky, regained its poise, and they were saved. The earth was but fifty feet below."

"This goes to show," continued Mr. Hennequin, "that too much precaution cannot be observed in carrying plenty of ballast. There are in the air occasional rarefactions and when a balloon once gets into one of them it drops like a piece of lead. Gower and Tissindle sailed into a veritable pit in the air and had they not had lots of ballast abourd they would have been dashed to pieces." - Chicago Tribune.

The Inventor of the Lifeboat. It is not a century since the lifeboat was invented by Lionel Lukin, a native of Hythe, one of the Cinque ports. As yet no memorial of him exists excepting a tombstone over his grave, but it is now proposed to place a memorial window in the chancel of the Church of Hythe, near which he lies buried. — Chicago News.

A man who has practiced medicine for 40 years ought to know salt from sugar; read what he says:

years ought to know sait from sugar, read what he says:

TOLEDO, O., Jan. 10, 1887.

Messrs. F. J. Cheney & Co.—Gentlemen—1, have been in the general practice of medicine for most 49 years, and would say that in all my practice and experience have nover seen a preparation that I could prescribe with as much confidence of success as I can Hall's Catarrh Cure, manufactured by you. Have prescribed it a great many times and its effect is wonderful, and would say in conclusion that I have yet to find a case of Catarrh that I would not cure, if they would take it according to directions.

Yours truly.

L. L. Gonscon, M. D.,

Office, 213 Sammit St.

We will give \$100 for any case of Catarrh that cannot be cored with Hall's Catarrh Cure. Taken internally.

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increases the appetite, and improves the general health, instead of substituting one disease for another, as is the case with potash, and mercury mixtures. Books on Blood and Skin diseases free. THE SWIFT SPECIFIC CO., Atlanta, Ga.

I took Cold, I took Sick,

I take My Meals, I take My Rest,

getting fat too, FOR Scott's Emulsion of Pure Cod Liver Oil and Hypophosphites of Lime and Soda Nor ONLY CURED MY Incip-tent Consumption BUT BUILT

FLESH ON MY BONES AT THE BATE OF A FOUND A DAY. PAKE IT JUST AS EASILY AS I DO MILK BUCH TESTIMONY IS NOTHING NEW,

A striking siguboard may sometimes be the means of making its owner's fortune. There are plenty of places in New York where old umbrellas are mended, but the west side mender who put up the sign "Umbrella Hospital" struck an idea that none of his rivels had of it clinch their faith in it thought of. People laughed at it, took a second glance at it, looked at the place, and told their acquaintances about it, thus advertising the umbrella hospital and sending customers to it. Unless the signs fail, that signboard will yet enrich its inventor .- Detroit Free Press.

His Unique Sign

A London (England) 'matrimonial agent boasts of having arranged 40,000 narriages between members of all classes of society.

Dobbins's Electric Suap is cheaper for you to use, if you follow directions, than any other scaps would be if giren to you, f.r. by it use cother are sared. Clothes cost more that sear, Ask your grocest for Dobbins's. Take no other. Tuenn are in European Russia 223 sugar factories, producing sugar from beets.

Tourists,

Whether on pleasure bent or business, should take on every trip a bottle of Syrup of Figs, as it acts most pleasantly and effectually on the kidneys, liver and bowels, preventing fevers, head sches and other forms of sickness. For sale in 50c. and \$1 bottles by all leading drug-

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2: JACOBS OIL THE COVERNOR OF MARYLAND SAYS:

For a disordered liver try Beecham's Pills.

IT EXECUTIVE CHAMBER. IS Annapolis, .Md., Jan. 6, '90. "I have often used ST. JACOBS OIL, and find it

a good Liniment." ELIHU E. JACKSON, THE Cov. of Md. BEST.

READY RELIEF. THE GREAT CONQUERO ! OF PAIN

For Sprains, Bruises, Backache, Pain in the Chest or Sides, Hendache, Toothache, or any other external pain, a few applications rubbed on by hand, act like magic, causing the pain to instantly stop.

For Congestions, Colds, Bronchitis, Pneumonia, inflammations, Rheumatism, Neuralgia, Lumbago, Sciatica, more therough and repeated applications are necessary.

All internal Pains, Diarrhyn, Colic, Spasms, Nausea, Fainting Spells, Nervoushess, Sieceplessares are relieved instantly.

RPTUREs pain or inconvenience. Cousing hours 8 to 1. Das. HARDING & PIXLEY, West 22d St., New York. Send for testimonials. is the most popular remedy

No one doubts that Dr. Sage's Catarrh Remedy really cures Catarrh, whether the disease be recent or of long standing, because the makers with a \$500 guarantee, which isn't a mere newspaper guarantee, but "on call" in a

That moment is when you prove that its makers can't

cure you. The reason for their faith is this:

moment.

Dr. Sage's remedy has proved itself the right cure for ninety-nine out of one hundred cases of Catarrh in the Head, and the World's Dispensary Medical Association can afford to take the risk of your being the one hundredth.

The only question is—are you willing to make the test, if the makers are willing to take the risk?

If so, the rest is easy. You pay your druggist 50 cents and the trial begins.

If you're wanting the \$500 you'll get something bettera cure!

EVERY MOTHER

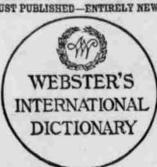
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Caution!—There have recently been issued several cheap reprints of the 1847 edition of Webster's Unsbridged Dictionary, an edition long since superannuated. These books are given various names,—" Webster's Unsbridged," "The Great Webster's Eucyclopedio l'Estionary," "Webster's Eucyclopedio l'Estionary, "Webster's Eucyclopedio l'Estionary," "Webster's Eucyclopedio l'Estionary," "Webster's Eucyclopedio l'Estionary, "Webster's Eucyclopedio l'Estionary," "Webster's Eucyclopedio l'Estionary, "Webs

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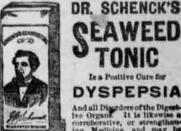
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