



successive crops, as the seed may be sown from early spring until quite late in summer. It belongs to the kale family, and when seeded thickly in rows it produces small, tender stalks and grows wherever kale can be produced. It is really a valuable acquisition to the list of garden plants, as well as being a profitable crop for field culture.

To Destroy Cabbage Worms.

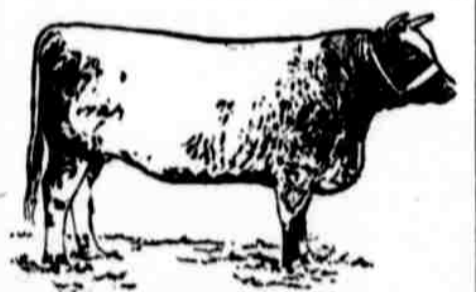
Pests of the cabbage family are best controlled by the use of the following insecticide: Pulverized resin, 5 pounds; concentrated lye, 1 pound; fish oil, 1 pint; water 5 gallons. Make this into a stock solution by placing the oil, resin and one gallon of hot water in an iron kettle, heating until the resin is softened. After this add the concentrated lye carefully and stir the mixture thoroughly. Add four more gallons of water and boil the whole mass until the mixture will mix with cold water, making a clear, amber-colored mixture. This mixture should make five gallons of stock solution. When this is used, F. A. Sirrine, of the Geneva Experiment Station, advises preparing it by combining one gallon of the stock solution with sixteen gallons of water, three gallons of milk of lime and one-fourth pound of Paris green. The water, resin and milk of lime is added. In every case where this mixture is properly applied good results were obtained. -American Agriculturist.

Gathering Cow Pens.

My method of gathering them is a long way ahead of the common way of hand picking. Take a heavy chain and fasten on a No. 20 Oliver chilled plow, or any other heavy plow, in same manner as you would if wishing to turn under a tall growth. Buckle hip straps on harness so short as to hold plow out of ground. Take wheel and jointer off of plow; let tow come between team and plow, just skim enough surface to cut pea stalks off. The stalks will be caught by the chain and dragged until enough gathers to raise chain, then they will drop out under chain and chain will then gather another bunch in like manner. Size of bunches will be regulated by weight of chain. If gathered in this way early in the morning while they are tough none will shatter. This fix is superior to any patented pea harvester I have yet seen. I gathered my last year's crop in this manner with great success. -P. B. Meyer.

Shorthorn Heifer.

The 2-year-old Shorthorn heifer, Bapton Vanity, is a roan, bred and owned by Mr. J. Deane Willis, Bapton Manor, Wiltshire, England. She is very large for her age, being wide and deep in front. She was first at the show of the Bath and West Society at Cardiff.



HEIFER BAPTON VANITY.

Wiltshire, England. She is very large for her age, being wide and deep in front. She was first at the show of the Bath and West Society at Cardiff.

Fighting Hog Cholera.

If the hog cholera should break out on our farm, then all the pigs that have been exposed to it should be confined in small lots so as not to spread the disease on the farm. The pig that has the cholera should be confined in a pen to itself, and it should be sprayed three or four times each day with chloro-naphtholeum, twenty parts water to one of the cholera, and the floor of the pen should be white with slacked lime, and if the pig dies, if it can be done, haul some logs and wood and burn it in the pen where it died, but if not, be sure that every cholera germ is killed on the way from the pen to the place where the pig is buried. By using such vigorous measures we have succeeded in stamping the cholera out several times on our farm. -James Riley, in Farmers Advocate.

Poultry Insect Killers.

The lard and sulphur mixture has to be used on young chicks with discretion. Insect powder, especially bulach, is far safer and will surely kill every louse with which it comes in contact. Tobacco dust freely scattered through the feathers of the old bird, as for instance when sitting, and a few days before the eggs are expected to hatch, will clear the lice out in a hurry. Sometimes I use tobacco dust in place of the insect powder. If applied freely, it will also kill these lice. For chicken mites, use the clear kerosene, soaking perches, nests and cracks and crevices very thoroughly, and it is a sure cure every time.

Animal Food for Young Turkeys.

As long as the supply of insect food lasts the young turkeys will make rapid growth, but as soon as you notice the grass disappearing and insects less abundant, begin feeding a small quantity of meat to the young turkeys at night, so as to promote and continue the growth. You should not aim to get them very fat. What you should desire is to secure as large frames and bone as possible, so as to have somewhere to crowd on the meat and fat later on. Hence do not allow them to cease growing, but push them until ready for market, putting them up for the purpose of being fattened about ten days before selling. -Exchange.

Borers in Apple Trees.

If the trees have already been infested the borers must be taken out with a sharp knife or killed in their holes by inserting a sharp wire. After the trees have been freed from them, prevent their further attacks by scrubbing the trunks once or twice a year with strong soapuds. If the trunks are covered with rough bark, remove this by scraping. It is very difficult to rid an orchard of borers after they are once established.

German Rape.

The new forage plant—German rape—which has been praised so highly for stock is now known to be one of the best and cheapest garden crops that can be used for "greens," being superior to kale in rapidity of growth and yield of leaves. It can also be used for

In 28 days not a scrap of food or nourishment of any kind passed the lips of Milton Rathbun, of Mount Vernon, N. Y. When he began his voluntary fast he weighed 210 pounds; his abstinence caused the loss of 42 pounds and it has caused him no apparent injury.

Still More Counterfeiting.

The Secret Service has just unearthed another band of counterfeiters and secured a quantity of bogus bills, which are cleverly executed. Tokens of great value are always selected for imitation, notably Hostetter's Stomach Bitters, which has many imitators but no equals for disorders like indigestion, dyspepsia and constipation.

Street car drivers in Skagway, Alaska, are paid \$4 a day.

I believe Pisco's Cure is the only medicine that will cure consumption. -Anna M. Ross, Williamsport, Pa., Nov. 12, '95.

Plumbing is taught in the London trades school.

Mothers will find Mrs. Winslow's Soothing Syrup will best remedy to use for their children during the teething period.

Evolution of an Ocean.

THE NEW PACIFIC—By Hubert Howe Bancroft. The events of the past year, in the war with Spain and the acquisition of new domain, resulting in a revival of trade and phenomenal industrialism, invest with fresh interest the Pacific ocean, round which cluster so many crowning incidents.

The author begins his work with a sketch of the war with Spain, the causes which led to it and the resultant issues, as preliminary to the glimpses of history and description of the countries in and around the Pacific, their resources, commerce, climates, mines and manufactures, with a glance at the old-time traffic in trinkets and furs, on account of the important voyages of circumnavigation, science and discovery, the great gold gatherings, and kindred topics. The Bancroft Company, publishers, 156 Fifth Avenue, New York City.

Climate, Scenery and Nature's Sanatorium.

Scenery, altitude, sunshine and air, constitute the factors which are rapidly making Colorado the health and pleasure grounds of the world.

Here the sun shines 357 days of the average year, and it blends with the crisp, electric mountain air to produce a climate matchless in the known world. No pen can portray, no brush can picture the majestic grandeur of the scenery along the line of the Denver & Rio Grande Railroad in Colorado. Parties going East should travel via this line which is known all over the world as the Scenic Line of the world. For any information regarding rates, time tables, etc., call on or address R. C. Nichol, general agent, 251 Washington street, Portland, Or., or any agent of the O. R. & N. Co., or Southern Pacific Company.

Improved Train Equipment.

The O. R. & N. and Oregon Short Line have added a buffet, smoking and library car to their Portland-Chicago through train, and a dining car service has been inaugurated. The train is equipped with the latest chair cars, day coaches and luxurious first-class and ordinary sleepers. Direct connection made at Granger with Union Pacific, and at Ogden with Rio Grande line, from all points in Oregon, Washington and Idaho to all Eastern cities. For information, rates, etc., call on any O. R. & N. agent, or address W. H. Hurlburt, General Passenger Agent, Portland.

The oyster crop of Chesapeake bay diminishes each year.

TO CURE A COLD IN ONE DAY

Take Laxative Bromo Quinine Tablets. All druggists refund the money if it fails to cure. E. W. Grove's signature is on each box. 25c.

The bicycle workers and kindred crafts of Munice, Ind., have formed a local organization of the trade.

SALT LAKE CITY.

An Important Factor in Transcontinental Travel.

No one crossing the continent can afford to cut Salt Lake City from his route. The attractions of the place, including the Mormon Temple, Tabernacle and Church institutions, the Great Salt Lake—deader and denser than the Dead Sea in the Holy Land—the picturesque environment and the warm sulphur and hot springs, are greater to the square yard than any locality on the American continent.

The Rio Grande Western Railway, connecting on the East with the Denver & Rio Grande and Colorado Midland Railways and on the West with the Southern Pacific (Central Route) and Oregon Short Line, is the only transcontinental line passing directly through Salt Lake City via the Rio Grande Western Railway is famous all the year round. On account of the equable climate of Utah and Colorado it is just as popular in winter as in summer. Send 2c to J. D. Mansfield, 253 Washington St., Portland, or Geo. W. Heintz, Acting General Passenger Agent, Salt Lake City, for a copy of "Salt Lake City—the City of the Saints."

Are You Going East?

If so, you should see that your ticket reads via the Great Rock Island route, and you will get the best. Pullman palace sleeping cars, elegant reclining chair cars "free," and library buffet cars on all through trains. Best dining car service in the world. Popular personally conducted excursions once a week to all points East. For full particulars call on or address any ticket agent, or A. E. COOPER, G. A. P. D., C. R. I. & P. Ry., 246 Washington street, Portland, Or.

American commissioners for foreign missions have expended \$692,446 the past year.

"The Best is Cheapest."

We learn this from experience in every department of life. Good clothes are most serviceable and wear the longest. Good food gives the best nutriment. Good medicine, Hood's Sarsaparilla, is the best and cheapest, because it cures, absolutely CURES, when all others fail.



For an hour a bally horse in Boston delayed traffic by holding up a line of thirty trolley cars. Blazing paper was held under the animal's nose and various other means adopted to start the refractory creature. At last, when the contents of a soda siphon were squirted into his ear, he dashed off at a two-minute gait.

\$100 REWARD \$100.

The readers of this paper will be pleased to learn that there is at least one dreaded disease that science has been able to cure in all its stages, and that is catarrh. Hood's Catarrh Cure is the only positive cure known to the medical fraternity. Catarrh being a constitutional disease, requires a constitutional treatment. Hood's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system, thereby destroying the foundation of the disease, and giving the patient strength by building up the constitution and assisting nature in doing its work. The proprietors have so much faith in its curative powers, that they offer One Hundred Dollars for any case that it fails to cure. Send for list of testimonials. Address: F. J. CHENEY & CO., Toledo, O. Sold by druggists.

Street railway employes of Chattanooga, Tenn., recently formed a union, and all were discharged in consequence.

FITS Permanently Cured. No fits or nervousness after first day's use of Dr. Kline's Great Nerve Restorer. Send for FREE 64-page booklet and treatise, D. R. H. KLINE, M.D., 233 Arch Street, Philadelphia, Pa.

The plumbers of Chattanooga, Tenn., have settled on a nine-hour day, with \$2.50 per day as a minimum wage.

Piles

You are costive, and nature is under a constant strain to relieve the condition. This causes a rush of blood to the rectum, and before long congested lumps appear, itching, painful, bleeding. Then you have piles. There are many kinds and many cures, but piles are not curable unless you assist nature in removing the cause. CASCARETS make effort easy, regulate and soften the stools, relieving the tension, and giving nature a chance to use her healing power. Piles, hemorrhoids, fistula, and other rectal troubles yield to the treatment, and Cascarets quickly and surely remove them forever. Don't be persuaded to experiment with anything else!

Advertisement for Cascarets featuring a large illustration of the product box and text: 'CASCARETS are absolutely harmless, a purely vegetable compound. No mercurial or other mineral pill-poison in Cascarets. Cascarets promptly, effectively and permanently cure every disorder of the Stomach, Liver and Intestines. They not only cure constipation, but correct any and every form of irregularity of the bowels, including diarrhea and dysentery. Pleasant, palatable, potent. Taste good, do good. Never sicken, weaken or gripe. Be sure you get the genuine! Beware of imitations and substitutes! Buy a box of CASCARETS to-day, and if not pleased in every respect, get your money back! Write us for booklet and free sample! Address: STERLING REMEDY COMPANY, CHICAGO OR NEW YORK.'

Advertisement for '55 DROPS' featuring a large '55' logo and text: '55c. SAMPLE BOTTLE 10c. FOR NEXT 30 DAYS. A MARVELOUS DISCOVERY In Medical Science, Wonderful, Astonishing, Yet True. CURES RHEUMATISM, NEURALGIA AND SCIATICA.'

By the introduction in the medical field, of our most wonderful "55 DROPS," a legacy of inestimable value has been bequeathed to mankind. Suffering humanity is no longer at the mercy of diseases which have always defied the skill of the medical profession, for now "55 DROPS" defies these diseases, and has robbed them of their terror. This is truly a God-given remedy, yet invented by man for the benefit of suffering mortals, and will be handed down to coming generations as the most wonderful production in medical science during the Nineteenth Century. This remedy is positively curing more people daily than all other remedies combined. We challenge the worst cases of Rheumatism in all its forms, Catarrh, Neuralgia, Asthma, La Grippe and kindred diseases as a test of what this remedy will do. It has positively cured in a short time many who were bed-ridden for years; others who could only walk by the use of crutches, and still others who had been given up by competent physicians to die. This is no exaggeration. We have the evidence in our possession to prove all we say and more too.

"55 DROPS" positively cures the following diseases: RHEUMATISM, NEURALGIA, SCIATICA, DYSPEPSIA, HICKAGE, HAY-FEVER, CATARRH, MALARIA, SLEEPSIDENESS, NERVOUSNESS, HEART WEAKNESS, TOOTHACHE, EARACHE, CREEPING NUMBNESS, BRONCHITIS, LIVER AND KIDNEY DISEASES, and where none is cured by this remedy, they stay cured of these diseases, for it fortifies the system against any future attack. "55 DROPS" is the name and five drops the dose. Large bottles (300 doses) prepared by Mail or Express, \$1.00, or six bottles for \$5.00. Sample bottles, regular price, 25c, but for the next thirty days from the date of this paper, we will send sample bottles upon receipt of 10c each. No one can appreciate this wonderful remedy until they try it. Write today. Agents wanted. SWANSON RHEUMATIC CURE COMPANY, 100-104 E. Lake Street, Chicago, Ill.

Advertisement for Benedictine Salve featuring a logo and text: 'Benedictine Salve. Experience of Many Years Clearly Demonstrates the Great Efficacy of This Liniment. Postpaid, 25c a Box. Address Benedictine Priory, Mt. Angel, Or. NEW ORLEANS, La., Nov. 8, 1898. Rev. Father—Enclosed find money order for another box of your Salve. I find it very good indeed, and try not to be without it. PATRICK GARRY, 522 Bolivar St. LOUISVILLE, Ky., Jan. 19, 1899. Rev. Father—I find your Salve to be the best Salve that I ever used. PH. SCHEVERER, 74 E. Walnut St.'

Advertisement for Pisco's Cure for Coughs featuring a logo and text: 'PISCO'S CURE FOR COUGHS WHILE ALL ELSE FAILS. Best Cough Syrup. Tastes Good. Use in time. Sold by druggists. CONSUMPTION.'

Advertisement for California Fig Syrup featuring a logo and text: 'BUY THE GENUINE SYRUP OF FIGS. MANUFACTURED BY CALIFORNIA FIG SYRUP CO. DEEP-SEATED DISEASES. Moore's Revealed Remedy. You Can't Make a Mistake by Taking the OREGON SHORT LINE RAILROAD.'

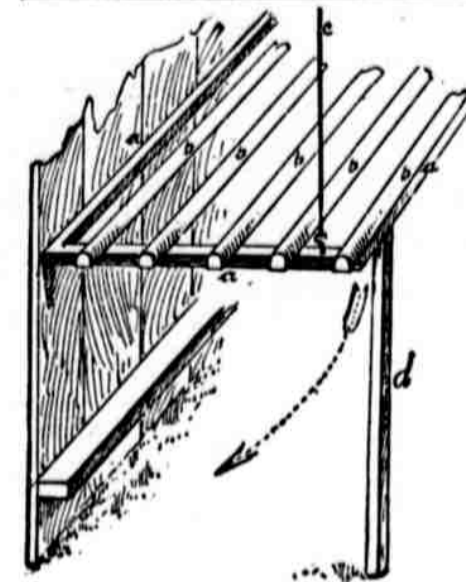
Advertisement for Oregon Short Line Railroad featuring a logo and text: 'For it is the favorite through Dining Car and Buffet-Library Car Line East. For further particulars call on or address J. R. NAGEL, G. P. A., W. E. COMAN, G. A., C. G. TERRY, T. P. A., 124 Third Street, PORTLAND, OR. SOLE AGENCY Worthington Steam Pumps and Water Meters. Pumping Plants of Any Capacity. TATUM & BOWEN Machinery—All Kinds. 29 to 35 First Street, Portland, Or.'

Advertisement for Cure for Piles featuring a logo and text: 'SURE CURE FOR PILES. PILES are cured by Dr. Bosanko's Pile Remedy. It is a simple, safe, and reliable remedy. It is sold by all druggists and sent by mail. Write me about your case. DR. BOSANKO, Philada., Pa.'

Advertisement for Carter's Ink featuring a logo and text: 'CARTER'S INK. Used by millions. Sure proof of its quality. DR. MARTEL'S BOOK. "Relief for Women." French Female Pills. DR. GUNN'S IMPROVED PILLS. ONE FOR A DOSE. Cure Sick Headache and Dyspepsia. Remove Pimples and Purify the Blood. Aid Digestion and Prevent Biliousness. Do not gripe or sicken. Testimonials you will find in our book, or full box for 25c. DR. HONANKO 619, Philadelphia, Pa. Sold by Druggists.'

Advertisement for Young Men's Cure featuring a logo and text: 'YOUNG MEN! For Gonorrhoea and Gleet get Patent's Oxy Specimen. It is the ONLY medicine which will cure each and every case. NO CASE known has ever failed to cure, no matter how long it has been standing. Hence from its use will satisfy you. It is absolutely safe, prevents stricture, and can be taken without inconvenience and detention from business. Price, \$2.00. For sale by all reliable druggists, or sent prepaid by express plainly wrapped, on receipt of price, by FAIRBANKS CHEMICAL CO., Chicago, Ill. Circular mailed on request. Rupture treated scientifically and confidentially by Dr. Woodman & Co., 108 Second St., Portland.

Advertisement for Cure Yourself featuring a logo and text: 'CURE YOURSELF! Use Big 4 for unnatural discharges, inflammation, irritations or irritation of mucous membranes. Painless. All but extraneous matter is eliminated. Sold by Druggists, or sent in plain wrapper, by express, prepaid, for \$1.00, or 3 bottles, \$2.75. Circular sent on request. M. F. N. U. NO. 47-99. WHEN writing to advertisers please mention this paper.'



SWINGING ROOST.

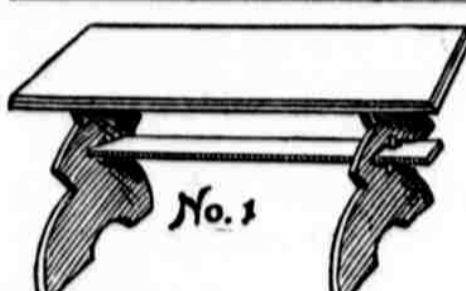
or spray pump. If both house and roosts are whitewashed frequently the filth will be lessened. A spray pump is excellent to use for this whitewashing process. -American Agriculturist.

To Control the Potato Scab.

"Another year's experience confirms my statement made a year ago that one can control potato scab by the use of a rye sod, if this is done in the right way. This is the fifth year of an experiment on two acres of land that had become so infested with scab that a decent crop of potatoes could not be grown. Five successive crops of potatoes have been grown in this land, turning a rye sod under each spring, and the seed used a portion of the time has not been wholly free from scab and has been untreated with any solution to kill the germs, but the crop is above the average in smoothness. The seed last spring, coming from Northern Ohio, had more scab than seemed safe, but so far as examination of the hills now indicates, the crop will be all right. If the rye can be turned during a hot spell in the spring, it makes the soil a little acid, and that is fatal to the scab germs. Two years of that treatment practically cleaned the field." -Alva Agu, in Ohio Farmer.

For an Amateur Carpenter.

The honesty of hand-made furniture is always attractive, particularly if it is made without glue in the good, old-fashioned style, with wooden bolts to hold the supports together. The accompanying design for a bench is artistic in its simplicity and might easily be copied by any amateur carpenter. The ends are cut in a pattern out of a thick board, as in Fig. 2, and are held together by a beveled bar, which, passing through the supports, is firmly held



A SIMPLY MADE BENCH.

in place by wooden pins, as shown in Fig. 1. A simple contrivance, but nothing could be stronger.

The Pig Sty.

The pig sty is filled with materials for absorbing manure, but they are not cleaned as frequently as should be the case. In winter, if the yard contains absorbents, they become soaked during rains and are disagreeable locations for adults or pigs. The pig prefers a dry location, as it suffers severely on very cold days. The materials in the pig yards will be of more service if added to the manure heap and a plentiful supply of cut straw thrown into the yard in its place. The covered shed, or sleeping quarters, should be littered a foot deep with cut straw, which may then be thrown into the yard, but the yard should always be cleaned out after a rain and dry material then added.

German Rape.

The new forage plant—German rape—which has been praised so highly for stock is now known to be one of the best and cheapest garden crops that can be used for "greens," being superior to kale in rapidity of growth and yield of leaves. It can also be used for