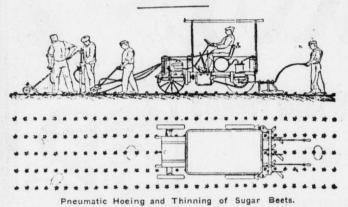
PNEUMATIC HOEING AND THINNING SUGAR BEETS

Numerous Ideas Have Been Suggested, But None of Them Have Proven Entirely Satisfactory New Method



cultivation is the hoeing and thinning of sugar teets. Numerous ideas have been suggested, but none of them, ap-to be compressed at saturated with matic combination, a plan and front view of which is shown in the draw-ing herewith, says The Sugar, here and the seat of the conductor ing herewith, says The Sugar Beet. The first appliance constructed was for hoeing and thinning, but later there were many other combinations

for which it was found to be suited. The main idea works very much on the same principle as several types of automatic hammers, a pump compressing the air into a reservoir at a pressure of six kilos per square c. There are flexible pipes connecting with the reservoir, and through these the compressed air passes. At the other end of the pipe is a piston; rapid strokes follow in succession as soon as the air circulates.' There is, as shown, an automobile of 12-horse he noted, says an expert, that dry air young chicks show similar "protec-taken at atmospheric pressure and at tive" colors.

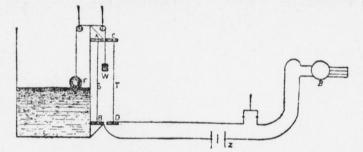


front are completing the operation of hoeing and thinning. We can see in this combination considerable changes in future beet cultivation: contractors could handle large areas at very low cost and defy competition from hand operation for the same kind of work.

Colors of Eggs.

Mr. A. R. Horwood of the Leicester (England) museum remarks that the colors of birds' eggs can in a large number of cases be traced to the no-cessity of "protective resemblance." White eggs are usually laid by birds as shown, an automobile of 12-horse nesting in holes in trees, or in dark situations, like owls, woodpeckers and hind which may be a plow or any other implement needed, depending upon the work to be done. The motor of the automobile may be geared with the air compresent placed is the being of the automobile may be geared with the air compressor placed in the back. semble the heather amongst which There is a safety valve and an auto-they are laid. Those of the ringed matic regulator, which begin working as soon as the desired pressure is resemble the sand and shingle of the reached. The compressor is kept cool beach. The lapwing's eggs closely by means of circulating water. It is to simulate bare soil or dried bents. The

BELL ATTACHMENT FOR A TANK



An attachment on a tank that fur- | that is convenient a two-pole switch nishes the house with water is of may be placed for the purpose of much importance and is easily ar- opening the circuit and stopping the ranged. Just above the tank, as indi-cated in the sketch, two pulleys once been given. should be suspended, over which the

It is obvious that when the water reaches lowest ebb, the weight W will cord runs which carries the float F, and the weight W. The float in the touch the plates A and C and comtank may be a hollow copper ball or plete the circuit, providing the switch a block of wood. The ball is perhaps is closed. Similarly, when the tank is closed. Similarly, when the tank is full, the weight W will touch plates preferable, since the wood tends to become waterlogged and thus will change in specific gravity. At the other end of the cord, hanging down

outside the tank, is a weight. The float must be heavier than the weight so as to be able to fall in the tank as the water falls. The float will be pushed upward, and, therefore, the weight downward by the buoyancy of the water as it rises in the tank. By



A GENEROUS host asks no re-ward: It is like conscience clear; A fenat where all best gifts are stored And guests have all good cheer; And with glad song In happy throng The hours prolong With loving friends whose presence makes life dear." --Henry Hamilton.

-Henry Hamilton.

Helpful Hints.

When washing a sweater do not wring it but squeeze all the water pos; sible from it. Cold water is best, and have the soap dissolved in the water; do not rub it on the garment. When washed rinse in water of the same temperature and lay to dry in the bright sunshine on a sheet on the Turn it until well dried. In grass. this way the garment does not lose Its shape.

Remember that flavoring extracts are very volatile and should be add-ed when possible to the mixture when cold

Make your own vanilla by getting a fine vanilla bean, cover with alcohol. This will extract the flavor and it will last a long time; more alcohol being added as it is used.

Red peppers which are so fine for flavor in many dishes, may be canned now as the markets are offering them. Wash the peppers and cut in strips with shears; pour boiling water over them and let stand five minutes; drain and plunge in ice water having a piece of ice in the water. When the peppers are thoroughly chilled, fill cans, packing closely. To one quart of vinegar add two cupfuls of sugar, boil 15 minutes and pour over the peppers, overflowing the cans.

Seal and store in a cold place

Fricassee o. ysters. Brown four tablespoonfuls of buter, add one-half a teaspoonful chopped parsley, one tablespoonful of flour, salt, cayenne and white pepper to taste, when the flour is well blended, add one quart of well drained oysters. When the edges begin to curl add the beaten yolks of two egg Serve with fried bread and parsley. eggs

Oyster Canapes.

Scald a cupful of cream, add two ta-blespoonfuls of fine-grated bread rumbs, a tablespoonful of butter, dash of paprika and nutmeg; then add two dozen oysters, chopped. Stir un-til well heated, but not boiling. Spread on rounds of toast well buttered. Serve with olives or gherkins.



T AIN'T no use to grunble and combinin. It's jest as cheap and easy to rejoice When God sorts out the weather and sends rain. W'y rain's my choice. "They ain't no sense as I kin see in mortals such as you and me A faultin' Nature's wise intents, And lockin' horns with Providence." --James Whitcomb Riley.

Tips for the Tired.

The old saw: "Let your head save your heels," is one we all need to keep constantly before us. One housekeeper lays all things to be carried upstairs, on a certain chair near the door, that she will have to pass through in this way saving many needless trips on tired feet. Where one's household is large and

duties many, a slate in the kitchen is a great convenience. It may be used for jotting down supplies needed, or suggestions of different members of the family for favorite dishes, extra work to be done, or a hundred other things peculiar to each household.

For tired feet a hot foot bath, the water of which is made very sait, by using the common barrel sait, will rest the feet wonderfully, and it is ers full of women's fixings and one

THANKSGIVING DAY

Canada's Day of Thanks a Month Ear lier Than in the United States.

For some reason better known to the Canadians themselves than to the people on this side of the line, our Canadian cousins celebrated their Thanksgiving a month or more earlier than we do. It may be that the Cana-

than we do. It may be that the Cana-dian turkey had become impatient, and sounded a note of warning, or it may be that the "frost on the pumpkin" de-clared itself. But whatever the reason, their Thanksgiving day is past. It may have been that the reasons for giving thanks so much earlier than we do thanks so much earlier than we do were' pushing themselves so hard and so fast that the Canadians were ashamed to postpone the event. They have had reasons, and good ones, too, tor giving thanks. Their great broad areas of prairie land have yielded in abundance, and here, by the way, it is not uninteresting to the friends of the millions of Americans who have made their home in Canada during the past few years to know that they have participated most generously in the "cutting of the melon." Probably the western portion of Canada, comprising the provinces of Manitoba, Saskatche wan and Alberta, have the greatest reason of any of the provinces to express in the most enthusiastic manner their gratitude. The results in the line of production give ample reason for devout thanksgiving to Providence. This year has surpassed all others in so far as the total increase in the country's wealth is concerned. There is no question that Providence was espe cially generous. The weather condi-tions were perfect, and during the ripening and harvesting period, there was nothing to interfere. And now it was well it was so, for with a demand for labor that could not be supplied, there was the greatest danger, but with suitable weather the garnering of the grain has been successfully accompished. There have been low ger eral averages, but these are accor , ed for by the fact that farmers vere indifferent, relying altogethe' upon what a good soil would do. There will be no more low averages though for this year has shown what good careful farming will do. It will pro-duce 130 million bushels of wheat from seven million acres, and it will pro-duce a splendid lot of oats, yielding anywhere from 50 to 100 bushels per This on land that has cost but trom \$10 to \$15 per acre-many farm ers have realized sufficient from this year's crop to pay the entire cost of their farms. The Toronto Globe says: "The whole population of the West

rejoices in the bounty of Providence, and sends out a message of gratitude and appreciation of the favors which have been bestowed on the country. The cheerfulness which has abounded with industry during the past six months has not obliterated the conception of the source from which the blessings have flown, and the good feeling is combined with a spirit of thankfulness for the privilege of living in so fruitful a land. The misfortunes of the past are practically forgotten, because there is great cause to con-template with satisfaction the comforts of the present. Thanksgiving should be a season of unusual enthusiasm.'

Poet's Descendant in Poverty. The present wave of agitation for the amendment of the British copyright law is gaining strength from the discovery that a great-grandson of Robert Burns is now making a pre carious living as a mender of pots and Dans.

Important to Mothers. Examine, carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it Bears the Signature of Char Hilteture. In Use For Over 30 Years. The Kind You Have Always Bought

Tie Is Essential. "Dad, what sort of a bureau is a



THE "NEW" NOVEL.

mother won't allow me to."

Ready for the End.

The rector and a farmer were dis-cussing the subject of pork one day and the rector displayed considerable interest in a pen of good-sized Berk-shires. "Those pigs of yours are in fine condition, Tomkinson," he re-marked. "Yes, sir; they be," replied the mater-of-fact farmer. "Ah, sur, if we was all of us only as fit to die as they be, sur, we'd do."-London News.

ALLEN'S LUNG BALSAM will cure not only a fresh cold, but one of those stub-born coughs that usually hang on for months. Give it a trial and prove its worth. 25c, 50c and 81.00.

The greatest necessity in a woman's

life is love.

to do for common ailments, and wom-en who suffer backache, constant lan-guor, and other common symptoms of kidney complaint, should be grateful to to find quick relief. Mrs. Minnie Turner, of E. B. St., Ana-darko, Okla., for pointing out the way to find quick relief. Mrs. Turner used Doan's Kidney Pills for a run-down con-

A NURSE'S EXPERIENCE.

Backache, Pains in the Kidneys, Bloat-

ing, Etc., Overcome.

dition, backache, pains in the sides and kidneys, bloated limbs, etc. "The way they have built me up is simply mar-velous," says Mrs. Turner, who is a nurse. "My health improved rapidly. Five boxes did so much for me I am tefling everybody about it." Remember the name-Doan's. Sold

by all dealers. 50 cents a box. Foster-Milburn Co., Buffalo, N. Y.

Afterward.

Bachelor—Are wives as expensive as they are said to be? Alimony Victim-Not while they are

stops itching. Is the most effective application known for eczema. The best dressing for 1940 burns or scalds, a prompt and effectual remedy in all forms of inflammation, eruptions and irritation of the skin. 50 cents a jar, all druggists or sent direct on receipt of price. A certain cure for itching piles. RESINOL CHEMICAL COMPANY, BALTIMORE, MD.

wives.

"I have found in my experience nothing to equal RESINOL for all diseases of the skin." S. S. Stewart, Stewart Station, Pa.

125,000 net from 1200 acres grapes. \$15,000 from 22 acres peaches. \$3,200 from 20 acres raisins, in the San Joaquin Valley, California

A cow and an acre of alfalfa will earn \$120 a year in the San Joaquin Valley

a fine living, with money in the bank. Forty acres should make you rich.

Ten acres are erough to comfortably support a small family. Twenty acres allord a fine living, with money in the bank. Forty acres should make you rich. You pay from one-fourth to one-third down, balance easily can be paid for out of the crops. Almost anything can be raised in the San Joaquin country-oranges and wheat, figs and apples, delicate grapes and hardy potatoes. Products of the temperate and semi-tropic zones flour-ish side by side. Plenty of water for irrigation drawn from the near-by Sierra snows. It is easy for one to make a start. Land be-tween the rows can be used, while or chard is young, for many profitable crops. The point is to make every square foot bear something. Whit some farmers have donet: Frank Thomas, of Fresno, Cal., bought his first ten acres six years ago. Ne wows sixty acres six years ago. Now owns sixty acres sixty acres six years ago. Now owns sixty acres sixty acres sixty acres six



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70.000 Americans

H. M. WILLIAMS

Law Building

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WESTERN CANADA

What Prof. Shaw, the Well-Kn culturist, Says About it: "I would sconer raise cattle Canada than in the co

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ANADA

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7

the pulleys, therefore the float the rising and falling of the weight outside is assured.

For the electrical contact, outside the tank wall two wooden brackets, AC and BD, should be fastened at such heights that when the tank is full the weight W rests upon the lower bracket, and when the tank is empty the same weight will rise and touch the under side of the upper bracket. As the brackets require to project past the cord suspending the weight a hole or a slot should be cut in the upper bracket to allow for the movement of the cord. On the under side of the upper bracket two brass or copper plates, A and C, are at-tached and similar ones, B and D. on the upper side of the lower bracket. These plates are connected in pairs by wires, S and T, S connecting A tached and similar ones, B and D, on plates on each bracket should be, of course, separate from one another, but so placed that the weight at its highest or lowest point may touch both plates and thus bridge the gap hetween them and complete the circuit. The weight should be of metal and should be furnished, both above and below, with points so placed that ment. these points will touch the plates. The points will give a better assurance of contact than broad surfaces would do. since a little dust adhering either to the plates or to the weight would prevent contact. The wiring is done as shown in the diagram, viz: By running a wire from either one of the pair of plates A and B to the battery Z, and thence to one pole of the bell.

Takes About Sixty Days to Ripen and Yields 10 to 20 Bushels per Acre-By E. S. Keasey.

A CATCHCROP

BUCKWHEAT AS

We sometimes lose our seeding in the oats or wheat and rather than reseed we plow the ground as soon after the harvest as possible and sow to buckwheat. Buckwheat is an exhaustive crop, but I occasionally use it to further my grass seeding plans. I have never failed in getting a good catch of grass or clover, though sometimes buckwheat fails in making a good crop. When weeds grow in the wheat stubble after harvest you may be sure that the clover seed is gone. It takes only about 60 days for buckwheat to grow and ripen. It will usu-ally yield 10 to 20 bushels per acre, so it pays well for the labor involved and at the same time makes a fine shade and protection for young grass and clover sown at the same time with buckwheat. I sow about three pecks per acre, with 150 pounds of phosphate. Much nitrogen is leached through the soil if there is not some growing crop to preserve it. Buck wheat consumes but a small amount of nitrogen, while the clover gathers an abundance of this necessary ele-

Corn Silage Cheap.

Corn silage is about the cheapest and most efficient to supplement the winter ration for dairy and beef cat-tle, horses, calves and sheep. It is cheaper to handle the corn crop in the form of silage than any other way. And, should there be another summer of little rain, the well stocked silo Another wire from either one of the furnishes succulent green feed, and pair of plates CD to the other pole of the bell. In any part of the circuit bandman.

said to cure corns if done each day, for a week, soaking the feet 15 min

utes each time.

For burning feet a little epsom salts dissolved in the water is a great relief.

Cottage Pudding.

Cream three-fourths of a tablespoon of butter, add one and one-half table spoonfuls of sugar, two teaspoonfuls of beaten egg, one and one-half table-spoonfuls of milk, five tablespoonfuls of flour sifted with half a teaspoonful of baking powder, and a pinch of salt Beat vigorously and turn into two but-tered individual tins, and bake in a moderate oven. Serve with cream, or with a vinegar or lemon sauce.

Hot Water Gingerbread.

Mix two tablespoonfuls of molasses with one tablespoonful of boiling water. Mix and sift together four and a half tablespoonfuls of flour, oneeighth of a teaspoonful each of gin ger and soda; a few grains of salt, combine mixtures and add one and one-half teaspoonfuls of melted but-ter. Bake in a moderate oven 15 minutes

Nellie Maxwell.

It May Be. "I see that coal dust is said to be beneficial to the health."

"Is that old item going the rounds again?'

"You appear to have read it be fore.

"Yes, I think some kind-hearted dub puts it into circulation every fall, just to jolly the people who have furnaces to tend."

man's tie in it."-Houston Post. Pettit's Eye Salve for 25c. Relieves tired, congested, inflamed and sore eyes, quickly stops eye aches. All druggists or Howard Bros., Buffalo, N. Y

The great and good do not die even this world, embalmed in books their W. N. U., CLEVELAND, NO. 48-1909. spirits walk abroad .-- Smiles.

The danger from slight cuts or wounds is always blood poisoning. The immedi-ate application of Hamlins Wizard Oil makes blood poisoning impossible.

Te consider anything impossible that we cannot ourselves perform.

DOCTOR YOURSELF when you feel a cold coming on by taking a few dose of Perry Davis' Panikiller. It is better than Quining and safer. The large 50c bottles are the cheapest

Not to make allowances for the weaknesses of others.



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CASCARETS loc a box for a week's treatment, all druggists. Biggest seller in the world. Million boxes a month.

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