WAYS TO KILL **BOLL WEEVILS**

Chain Cultivator Has Proved to Be Effective Weapon.

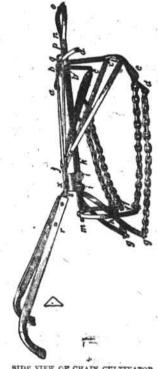
PATENTED BY GOVERNMENT.

Here Are Complete Directions Which Will Enable Any Blacksmith to Con-Struct the Machine-It Drags Infect, ed Squares P: So Sun Kills the Cot. ton Pests.

By W. D. HUNTER, Bureau of Entomology of the United States Department of Agriculture.

The impression is more or less gen eral that the only important way in which boll weevils may be killed is by the removal of the infested plant-and that all other steps in the system of control are merely to avoid damage by the weevils that have survived that destruction and their offspring spite of this impression, however, it urged that the destruction of myrada of weeves can be accomplished during the growing season. This is to be done by working in co-operation with the natural agencies that destroy the wee-

In making examinations of many thousands of infested squares (un-blown cotton buds) from different localities and different situations in cotton fields it was found that mortality was conspicuously greatest where the sunlight was least obstructed and the heat consequently the greatest. The mortality is infested squares in the middles was many times as great as in the case of squares which remained under the shade of the branches. The temperature at the surface of the



SIDE VIEW OF CHAIN CULTIVATOR.

ground during warm days runs con siderably higher than at a few feet above the surface.

For instance, it was found that when the temperature was 100 degrees F. In the regular weather bureau shelter about four feet above the ground the thermometer registered 140 degrees i on the surface. Likewise 90 degree F, in the shelter was accompanied by 120 degrees F. on the ground and degrees F in the shelter by 110 degree F, on the ground.

It is not surprising, therefore, that the cotton squares that fall to the ground and are not shaded are vequickly baked, so that the weevils ish, if not from heat, then from hardening of the food supply. In me cases they are simply roasted, in bodies assuming the appearance larvae that have been placed in flame.

Chain Cultivator Devised.

When the foregoing facts came light efforts were made to perfect device that would bring the infest a squares out of the shade of the plant to the middles of the rows. After much experimental work one of the writer's former associates, Dr. W. E. Hinds, devised an implement that a complishes the desired work in a ser-isfactory manner. This implement is known as the charge cultivator or charadrag.

The following specifications should enable any blacksmith to construct ar-effective chain cultivators

The draft bar n m, made of one-half by five-sixteenths inch tire steel, about fifty-two lactics lang, is designed to be about sixteen in her above the ground and this is the Lauret of the rear read f h m, which is of this size and form to allow old cotton roots, etc., to tun-through freely without clogging at the rear.

"Log Chains" Used.

The distance between the rear ends fixed at about ten inches. The dis portant cultural effect. tance between a chain of our pairsand tance between a chain of one pairward that of the other at their front world be obtained by all transcence to the other at their front world be obtained by all transcence the should be about him inches. The chains are of the size known as the summest possible cost a patent the manne of the mass been taken out in the name of the of three-cighths inchiron. This style of chain can be can to the length possible for any one to manufacture in each case. The chain is easily at tached by simply making the hooks at the machine exclusively and to charge the land a so that the end of the indiscessarily high prices. a, e, I and g so that the end of the unnecessarily high prices.

LIFE HABITS OF THE BOLL WEEVIL

FROM the time the egg is inid until the boll weevil is grown is from two to three weeks. The progeny of a single pair of weevils from June to November can reach the amaz-

ing number of 12,755,100:
The boll weevil eats nothing but cotton and will starve if this food is not available. The insect does not travel at night and is not attracted by lights.

During the summer the boil weevil lives about sixty days.
While hibernating in the winter its life is longer, and there is one instance of a weevil living from Dec 10 until the following

book is as wide as will pass through the length of the link and narrow enough at the middle of the bend to allow the link to turn and bag the other way. So long as the chains are kept tight they cannot become unhook ed. The hooks should also be turned or faced in such a way that they will not be likely to catch the passing plants or rubbish.

Chevis Is Adjustible. The clevis o p is simply hinged, so that there will be no tendency to pull the front of the machine off of the ground, and it is also broad enough in front to allow of the point of draft be ing moved from one side to the effect that the front of the machine may be thrown closer to one row if desired

The front guard on each side, a b d, is made of one piece of spring steel seven eighths by three-sixteenthof an inch. This size seems sufficient ly strong and best adapted to carry the tension of the chains d g while still yielding to the pressure against the bases of the plants as they may strike the outer sloping ends near d. The inner ends of these guards a b are horizontal, about eighteen inches each in length, and serve to carry the front guard above the draft bar n in and, passing through the keeper q. guide in the adjustment for width The machine cannot be extended beyoud the bent ends at a or closed be-youd the angles at b.

How to Adjust Chains.

The vertical section between b and c is about twelve inches long, so that the remainder of the front guard from c to near d will be about four inches above the ground. This prevents the pushing of dirt and squares toward the plants and allows the chains to catch them where they lie. The books at d and e are therefore bent downward and somewhat backward through about five or six inches. Care must be taken, especially in forming the outer ends between c and d, to secure best results. The dewnward bend for the hook at a should not be abrupt, as a gradual slope helps to prevent catching on any obstacles. The hooks a f and g are formed so as to hold the chains firmly and yet not interfere

with the passage of rubbish.

The method of carrying the read ends of the outer chains is shown at i h g. The piece k i is nearly parallel with the chains and may be used for their proper adjustment as to tension by several holes near the end where it is bolted at k. The chains are be-tween thirty and thirty-six inches long The stand s, upon which the handles are pivoted by a one-half inch boit, is made of a piece of boller plate bent and cut so as to have a horizontal top surface about four inches square and standing about two and one-half inches above the draft bar, to which it is securely boited.

Handles Adjust Chains.

The handles are bolted, as at r. to the heavy pieces of iron (about two by one-half inch tire steel), which are bent to receive them just behind the bivotal point at x, at such an angle as to bring the handles to the proper height and position. In front of x these pieces bearing the handles need not be so heavy and may therefore be tapered and welded to smaller steel running forward to b, where it is bolted to the front guard. The operation of this arrangement is similar to r that of a buge pair of shears. When the handles are pushed apart the front of the machine is spread wider.

The Mrnces J c e serve to support. strengthen and carry the front guard They are riveted to the adjusting from at J. one above and one below the "shear" places, to prevent their later ference with the closing of the ma chine: At c this iron is bent to con form to the front guard, to which it is riveted between c and l, at which point it is bent downward and forms the book é.

Made of Tire Steel.

Ordinary tire steel about one by one fourth inch may be used for all par's like the clevis o p, rear arches f h m and t h g and braces k I and j c The front guard a b c d should be of spring steel, as specified. The rivet heads on the front guard should be round and tit smoothly. In nearly att other places the irons are fastened to gether by one fourth inch square head

ed bolts, with washers as needed.
Although the chain cuitivator 'wa designed primarily for bringing the squares to the middles, it was found of the chains g g. f f. is in each pair in field practice to have a most tu-

In order that the use of this machine

Mill Pond Items.

here will soon get their cotton chopped.

J. A. Morlan went to Wilton Monday E. E. Evans, C. R. Ball and sis-

ter. Miss Ollie, called at t. J. Wright's Sunday night. There was right much fishing on

the mill pond last week.

nice fish out of the pond in the past = two or three weeks.

BLACK EYED DAISY.

The above items were intended for

life in the house not made with

It seems hard that one 'so bright and happy and helpful should have only twenty-six years in the world

taken from the dear grandmother, whose light and joy and stay she

for some months it was plainly evi W. H. Yarborough, Jr, Atty.

dent that she was fast losing ground. It seems that the farmers around And the expected happened when, from the midst of loved ones, she slipped away. But she died as she lived, with her face lit with a smile. And we are confident that we shall know where to bud her

Whooping cough is not when the cough is kept loos pectoration easy by giving lain's Cough Remedy. dangerous and ex-Jim Ball has caught some right used in many epidemics disease with perfect success by all dealers.

SALE OF LAND.

SALE OF LAND.

A right large crowd met on Friday last, at what is known as the old Ball apring near J. K. Wright's mill pond and had a nice time at a shift.

The Sunday school has started up and there was a large crowd out Sunday afternen. Hope we will have a continued good attendance.

It is a fine little boy and G. A. Wright is the proud father.

The good road is getting close by and we hope it will soon be through here.

With best wishes to the Times and its editor.

Black Even Datsy.

SALE OF LAND.

By virtue of the power conferred tipon me in a certain fleed of trust, executed to me by Loomas Harris, and recorded to me by Loomas Harris, and recorded to me he heads of the Register of Deeds of Franklin County in Book 162. Page 378, I will on Monday, the bour of noon, sell at public auction at the court housedeer in Louisburg, N. C. to the highest hidder for cash, the one-seventh undivided interest of the said Loomas Harris, in a tract or parcel of land situate in Franklin County, Dunns' Township/ State of North Carriolina, and described as follows: Bounded on the North by the lands of Wiley Young, containing S4 acres, more or less, and being that parcel of land known as the Norf Harris lend, and on which land Norf Harris lend, and

COMMISSIONES' SALE OF LAND

COMMISSIONES' SALE OF LAND.

Under and by virtue off an order of sale made by the Superior Court of Franklin County, in that special proceedings entitled R. T. Williams et al vs. C. E. Gupton et al., the undersigned Commissioners will, on Monday, the 5th, day of June, 1911, it being the first Monday in June, 1911, at about the hour of noon, at the court house door in Louisburg, offerfor sale to the highest bidder, for cash, that certain tract of land described and defined as follows: adjoining the lands of Lawrence Gupton, Wesley Bunett, Williams Evans and others, lying on Mill Stone creek, being part of the David Gupton land and known as the "school house tract," containing 20 acres more or less. This 5th day of May, 1911.

W. H. Yarborough, Jr.,)

W. H. YARBOROUGH, JR., Com's WM. H. RUFFIN.

NOTICE OF LAND SALE.

only twenty-six years in the world that she loved, and that loved ber, but by every token, she has only changed her residence for a land where all is love; and life is not a burden; and no foul disease pales the fair young face.

It seems hard that she should leave her father who loved her so tengerly, and to whom she was devoted, but she has simply gone on a little before to be with the mother, and other loved ones on the other shore, and with her to welcome father, and others dearly beloved, who tarry a little longer here.

It seems hard that she should be taken from the dear grandmother, By virtue of an order of re-sale made

whose light and joy and stay she was; but, surely the memory of the laughing, helpful, girl that blessed her home for a decade and a half shall abide as a rich perfume, and be to grandmother the foretaste of heaven.

For several years Miss Lola had been batting with that implacable to of mankind, consumption; and for some mankind, consumption; and of James O'Day, deceased. ADMINISTRATORS NOTICE.

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old friends driving

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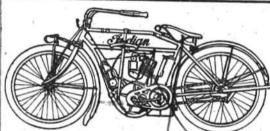
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