Nov. 18, 1924.

S. D. REDWINE

BOLL WEEVIL DESTROYER

Filed March 23, 1922

3 Sheets Sheet 1

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Nov. 18, 1924.

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3 Sheets-Sheet 3







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Patented Nov. 18, 1924.

STERLIN D. REDWINE, OF CRAB ORCHARD, TENNESSEE.

UNITED STATES PATENT OFFICE.

BOLL-WEEVIL DESTROYER.

Application filed March 23, 1922. Serial No. 546,084.

in Figures 3 and 4. A plurality of rollers To all whom it may concern: Be it known that I, STERLIN D. REDWINE, 10 are journalled in the brackets 9 so as to a citizen of the United States, residing at extend longitudinally of the frame and

Crab Orchard, in the county of Cumberland these rollers are arranged in pairs and are tain new and useful Improvements in a Boll-gears 13 which mesh with each other on ad-Weevil Destroyer, of which the following is jacent rollers so that the rollers of each a specification.

10 weevil destroyer and has for its principal have their axle shanks extending forwardly 65 object to provide a machine of this nature of the forward bar 8 and have keyed therewhich will be compact in structure, durable to beveled gears 14 which are in mesh with and capable of withstanding rough usages. beveled gears 15 keyed to shafts 16 jour-15 is to provide a machine of this nature which from the arcuate member 3 adjacent its ter- 70 is constructed of a minimum number of sim- minal. The outer ends of the shaft 16 are ple parts whereby the same may be econom- provided with a sprocket 17' over which ically manufactured and placed upon the are trained chains 18 which are also trained market at a reasonably low cost.

With the above and numerous other ob- the wheels 6. $\mathbf{20}$ jects in view, as will appear as the de- A plurality of cylindrical members 25 are scription progresses, the invention resides in hung from the main beam 1 by means of fiexcertain novel features of construction and ible members 26. These cylindrical memthe combination and arrangement of parts as 25 will be hereinafter more fully described and claimed.

5 and State of Tennessee, have invented cer- provided adjacent their forward ends with 60 pair will move in unison with each other and The present invention relates to a boll- in opposite directions. The end rollers 10 Another important object of the invention nalled in depending brackets 17 extending over sprockets 19 that operate in unison with 75

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In the drawings:— Figure 1 is a side elevation of the machine.

Figure 2 is a top plan thereof, 30Figure 3 is a rear elevation thereof, and Figure 4 is a vertical section taken therethrough.

Referring to the drawings in detail it will be seen that the machine consists of a frame formed by the central longitudinally extending beam 1 and a pair of longitudinally ex- weevils therebetween and destroy them. tending spaced side members 2 which are It is thought that the advantages and opconnected or formed integral with the front eration of the device will now be underarcuate shaped member $\overline{3}$ to which suitable stood without a more thorough explanation 95 draft appliance may be attached. An axle thereof, but it is to be understood that nubeam 4 extends transversely of the beam 1 merous changes in form, and in the comand the side members 2 intermediate their bination and arrangement of parts as may ends. The ends of the beam 4 beyond the be resorted to without departing from the 45 side members 2 depend downwardly and ter-spirit of the invention as hereinafter 100 minate in stub-axles 5 upon which are suit- claimed. ably journalled the wheels 6. A cross bar Having thus described my invention what 7 connects the rear ends of the side members I claim as new is:— 2 and a similar cross bar 8 connects their In combination, a frame, an axle beam of 50 forward ends adjacent the arcuate member inverted U-shaped formation mounted on 105 3. A plurality of depending brackets 9 ex- the frame so that its plane is disposed at tend from the bars 7 and 8. In the present right angles to the plane of the frame, subillustration there are four of these brackets axles projecting outwardly from the ter-9 extending from each bar and they are ar- minals of the axle beam, wheels journaled 55 ranged in pairs as is shown to advantage on the subaxles, brackets depending from 110

bers 25 are of different lengths as is indicated to advantage in Figure 1, the forward 80 cylindrical member being shorter than the others. These cylindrical members are adapted to engage the cotton plant for knocking the boll-weevils therefrom onto the shields 27 and 28 which are extended 85 longitudinally of the machine and supported by the brackets 9. The shield or guide 27 is smaller in width than the shield 28 and their adjacent edges are slightly spaced being disposed immediately above the space be- 90 tween the rollers 10 so as to guide the boll-

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the frame, rollers journaled in the brackets, guide plates carried by the frame in asso-ciation with the rollers, and a series of cy-lindrical agitating members disposed longi-5 tudinally of the frame above the rollers, and means for operating the rollers by the wheels

In testimony whereof I affix my signature

STERLIN D. REDWINE.

G. M. GREEN.

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