

Jan. 22, 1946.

H. F. MILLARD

2,393,395

IMPLEMENT FOR DISPOSING CHINCH BUG BARRIER AROUND PLANTED FIELDS

Filed Jan. 4, 1943

2 Sheets-Sheet 1

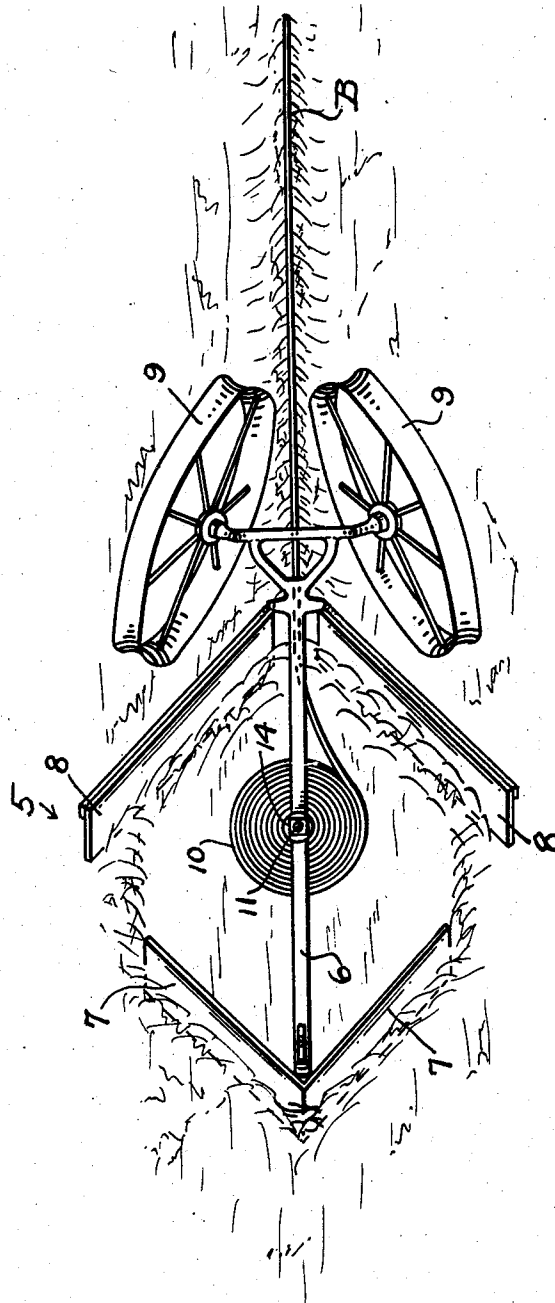


Fig. 1.

Inventor

H. F. Millard

By L. B. James

Attorney

Jan. 22, 1946.

H. F. MILLARD

2,393,395

IMPLEMENT FOR DISPOSING CHINCH BUG BARRIER AROUND PLANTED FIELDS

Filed Jan. 4, 1943

2 Sheets-Sheet 2

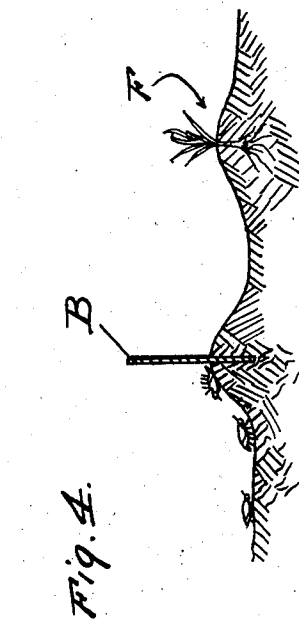


Fig. 2.

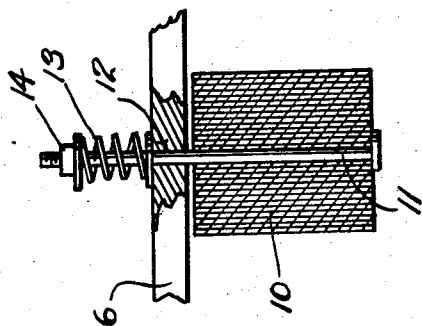
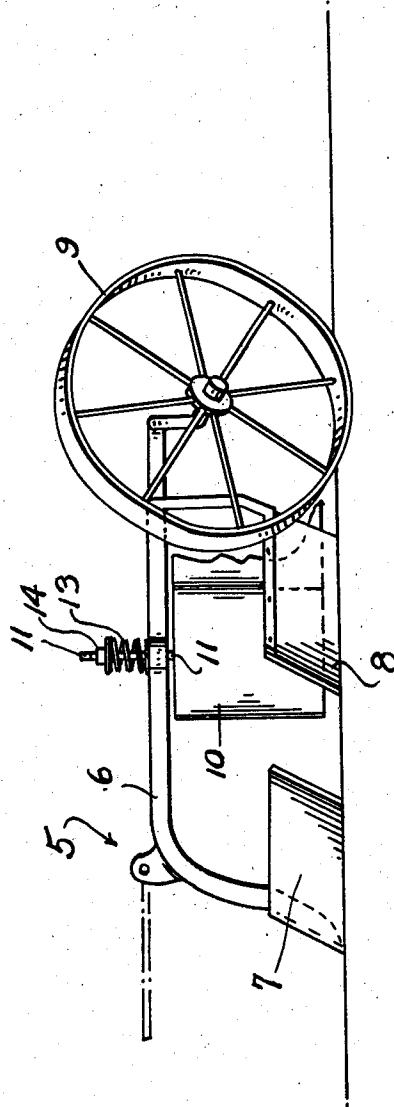


Fig. 3.

Inventor
H. F. Millard
By L. B. James
Attorney

UNITED STATES PATENT OFFICE

2,393,395

IMPLEMENT FOR DISPOSING A CHINCH BUG
BARRIER AROUND PLANTED FIELDS

Harold F. Millard, Crab Orchard, Nebr.

Application January 4, 1943, Serial No. 471,278

1 Claim. (Cl. 111—5)

This invention relates to agriculture and more particularly a method and means for protecting planted fields from attack by crawling pests such as chinch bugs and the like.

One of the salient features of this invention resides in the particular manner of disposing the barrier around planted fields.

Another object of this invention resides in the particular construction of the barrier carrying and setting implement.

A further object of this invention resides in the particular manner of disposing the barrier on the implement.

With these and other objects in view this invention resides in certain novel features of construction and arrangement of elements to be hereinafter set forth in the specification, illustrated in the accompanying drawings and pointed out in the appended claim and, while this disclosure depicts my present conception of the invention, the right is reserved to resort to such changes in construction and arrangement of elements as come within the spirit of the invention.

In the accompanying drawings forming a part of this invention:

Fig. 1 is a plan view of the barrier setting up implement.

Fig. 2 is a side view thereof.

Fig. 3 is a vertical sectional view through the barrier and supporting elements thereof.

Fig. 4 is a detail sectional view through a portion of a planted field showing the barrier set up in operative position therein.

In the present illustration of this invention the numeral 5 designates, in general, a barrier carrying and setting up implement consisting of a beam 6 having a plow share 7 secured to its forward end, to form a furrow in the ground.

Suitably spaced to the rear of the plow share and secured to the beam 6 are cover blades 8 extending diagonally forward with their outer ends terminating beyond the longitudinal path traversed by the plow share so as to push the loose dirt plowed up by said plow share inwardly where it will pass through a space between the inner ends of said blades for a purpose to be hereinafter set forth.

Journalled on said beam 6 rearwardly of the aforesaid blades are opposed ground packing wheels 9.

Suspended from the beam 6 as by a shaft 11 disposed between the plow share and blades 8 is a roll of paper 10 of suitable weight, the same having its free end initially threaded through the

space between the blades 8 and manually secured in the ground in upright position as by packing dirt against its opposite sides, whereupon, the implement is drawn forwardly to form a furrow for receiving the unwinding strip of paper which is retained in upright position by the dirt directed thereagainst by the blades 8 and further secured by packing the dirt so disposed thereagainst through the instrumentality of the packing wheels or other suitable means capable of performing a similar function.

In order to permit the roll of paper to unwind evenly and create an appropriate degree of tension on the strip of paper as it is being set up to form a barrier, herein designated by the letter B, the supporting shaft has its outer portion slidably extending through an aperture 12 in the beam and is surrounded by an expansion coil spring 13 which rests on the beam and is held on the shaft by a washer and adjustment nut 14.

Although the implement is herein shown as being devoid of means for pulling the same, it is within the purview of this invention to attach it to any well known tractor or other suitable means whereby operation thereof is ensured.

With this invention fully described, it is manifest that a new and novel method of preventing crawling pests from attacking planted fields, herein indicated by the letter F, is provided and, through the simplicity of the implement employed in practicing the method, the cost of setting the barrier up will be reasonable.

Having thus described my invention what I claim and desire to protect by Letters Patent is:

A machine for erecting a barrier in planted fields, comprising a beam having its forward end downwardly directed, obtusely disposed axles formed on opposite sides of the rear end of the beam, a downwardly extending arm formed on the beam adjacent its rear end and having forwardly diverging members formed on its lower end, a plow share secured to the forward end of beam, forwardly diverging blades secured to the aforesaid members with their outer ends extending beyond the outer ends of the aforesaid plow and their inner ends disposed in spaced relation equal to the amount of dirt to be piled in a mound to the rear thereof, a roll of barrier material suspended beneath the beam midway between the aforesaid plow and blades, means frictionally retaining the roll against undue winding action, said barrier material having its free end disposed between the blades and packing wheels journalled on the aforesaid axles to the rear of the blades.

HAROLD F. MILLARD.