Nov. 18, 1952 A. M. SINNER ET AL 2,618,081

DITCH SMOOTHING ATTACHMENT FOR DITCHING PLOWS

Filed April 15, 1950

Fig. 1.

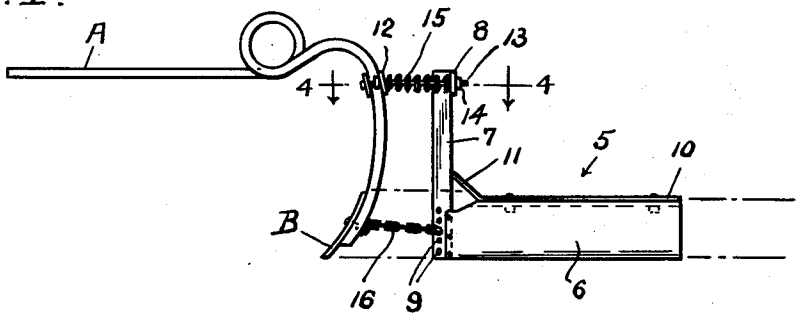


Fig. 2.

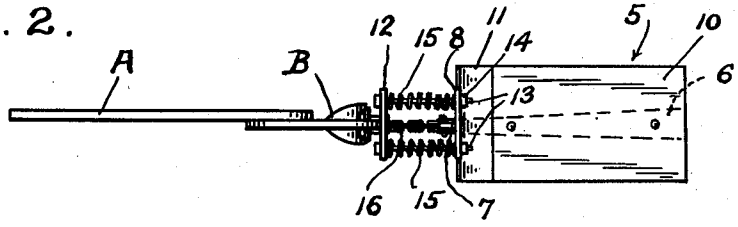


Fig. 3.

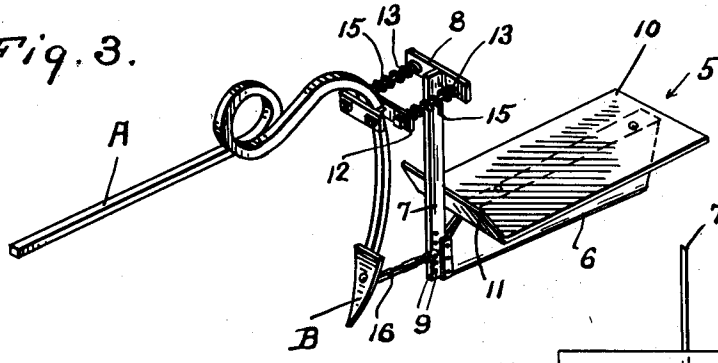


Fig. 5.

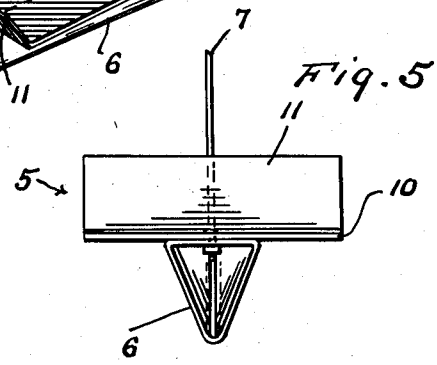
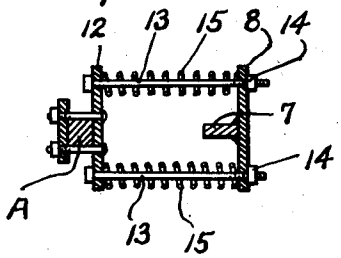


Fig. 4.



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DITCH SMOOTHING ATTACHMENT FOR DITCHING PLOWS

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2 Claims. (Cl. 37—98)

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This invention relates to agricultural implements and more particularly a new and novel ditching sled.

The primary object of this invention resides in the provision of a ditching sled adapted to be attached to the rear of a ditcher plow beam for packing and smoothing dirt on opposite sides of irrigating ditches formed by the ditcher plow.

Another object of this invention resides in the provision of a ditching sled adapted to be attached to and drawn by the lower portion of a ditcher plow beam and held under tension against loose dirt on opposite sides of irrigating ditches formed in fields by the ditchers so as to pack and smooth the loose dirt.

A further object of this invention resides in the particular construction of the ditching sled and tensioning means therefor.

With these and other objects in view, this invention resides in certain novel features of construction and arrangement of elements to be hereinafter more particularly set forth in the specification, illustrated in the accompanying drawing and pointed out in the appended claims and, although this disclosure depicts our present conception of the invention, the right is reserved to resort to such departures therefrom as come within the scope of the claims.

In the accompanying drawing forming a part of this application:

Fig. 1 is a side view of a ditcher plow beam showing the ditching sled attached thereto.

Fig. 2 is a plan view thereof.

Fig. 3 is a perspective view of the ditching sled attached to a spring type ditcher plow beam.

Fig. 4 is an enlarged sectional view taken approximately on line 4—4 of Fig. 1.

Fig. 5 is a rear view of the ditching sled.

In the present illustration of this invention the letter A designates a spring ditcher plow beam on the lower end of which is secured a plow blade B adapted to form an irrigating ditch in fields to be planted with alfalfa, grain, peas and the like and although but one ditcher plow beam is herein shown in conjunction with our ditching sled, indicated in general by the numeral 5, it is to be understood a similar ditching sled is to be likewise attached to each ditching plow beam of ditchers having a plurality of plows thereon.

The aforesaid ditching sled comprises an elongated shoe 6 secured at its front end to a standard 7 having an apertured cross-bar 8 secured to its upper end and a plurality of vertically spaced apertures 9 in its lower portion.

Rigidly secured to the upper end of the aforesaid shoe and extending on opposite sides thereof is a horizontal pressure plate 10 having its front end 11 directed forwardly and upwardly.

Secured to the ditcher plow beam in opposed relation to the aforesaid cross-bar on the standard 7 is a clamp 12 supporting elongated bolts 13 which slidably extend through the apertures in said cross-bar and have nuts 14 on their ends to tension expansion coil springs 15 therearound

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so they exert pressure between the clamp and cross-bar on the standard and thereby force the pressure plate against the ground.

Connected at one end to a selected aperture in the lower portion of the standard is a chain 16 or other suitable elements which, in turn, is connected at its opposite end to the lower portion of the ditching plow beam so as to pull the shoe 6 through the ditch formed by the plow blade with the pressure plate 10 thereon riding over the soft dirt on opposite sides of the ditch and thereby packing and smoothing it as the ditching sled is drawn behind the plow blade.

With this inventinon fully set forth, it is manifest that a ditching sled is provided which will readily pack and smooth the dirt along the sides of irrigating ditches formed by a ditcher plow blade and through the instrumentality of the aforesaid means for attaching the ditching sled to a ditching plow beam, the pressure plate will yieldingly engage the ground.

Having thus described our invention, what we claim and desire to protect by Letters Patent is:

1. The combination with a ditcher including a beam with a plow blade thereon, an elongated shoe loosely connected to the lower portion of the beam, a standard rigidly secured to the front end of the shoe, a cross-bar secured to the upper end of the standard and having apertures in its opposite end, a horizontally disposed pressure plate secured to the upper end of the shoe with its opposite sides extending laterally therefrom and their front ends directed forwardly and upwardly, a clamp secured to the ditcher plow beam in opposed relation to the aforesaid cross-bars on the standard, laterally spaced bolts supported by the clamp with its outer ends slidably extending through the aperture in the cross-bar, expansion coil springs surrounding the bolts and exerting pressure on the cross-bar and pressure plate, and nuts screwed on the outer ends of the bolts.

2. A ditching sled comprising, an elongated shoe, a standard rigidly secured to the front end of the shoe and having a plurality of vertically spaced apertures in its lower portion, a cross-bar secured to the upper end of the standard and having apertures in its ends, elongated bolts having their outer ends slidably seated in the apertures in the cross-bar, a clamp secured to the opposite ends of the bolts, expansion coil springs surrounding the bolts bearing against the cross-bar and clamp, a draft chain secured at one end in a selected aperture in the standard, a horizontally disposed pressure plate secured to the upper end of the shoe with its sides extending beyond the sides of the shoe and its front end directed forwardly and upwardly, and nuts on the ends of the bolts.

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No references cited.