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MARKER ATTACHMENT FOR TILLAGE IMPLEMENTS

Filed May 5, 1925

Fig. 1.

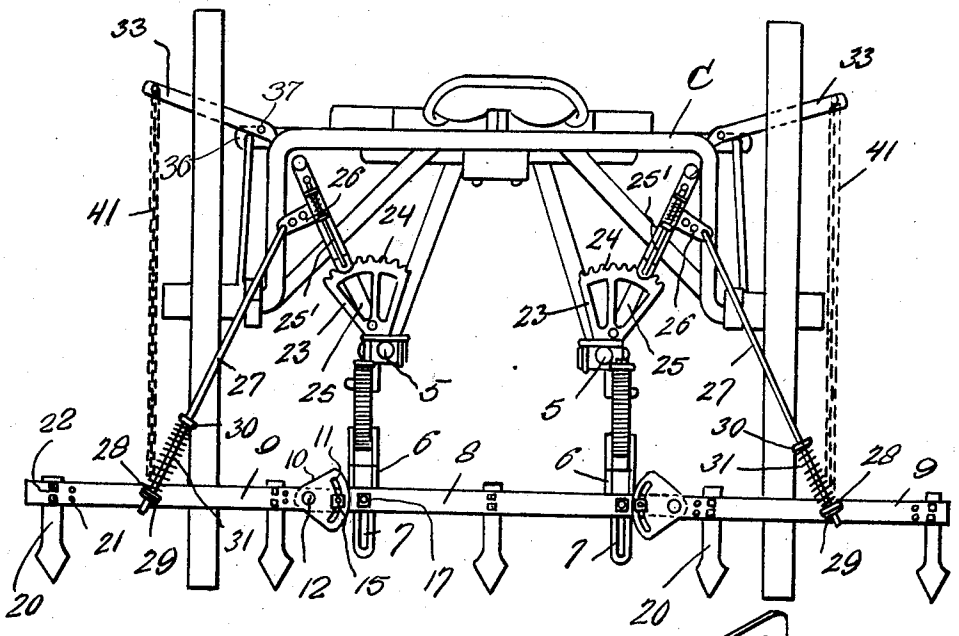
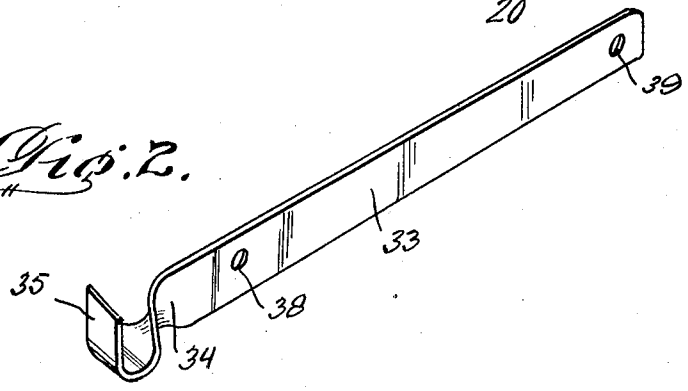


Fig. 2.



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UNITED STATES PATENT OFFICE.

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MARKER ATTACHMENT FOR TILLAGE IMPLEMENTS.

Application filed May 5, 1925. Serial No. 28,111.

The present invention relates to a marker attachment for tillage implements, such as cultivators, and has for its principal object to provide a simple structure having adjustable features whereby it is possible when planting with a cultivator to mark out rows as the cultivator is in operation, thereby allowing the planting to be done in straight rows.

The invention also contemplates the provision of a mark which in bedding the land causes the beds to be straight.

Another important object of the invention is to provide a marker attachment of this nature which possesses a strong and durable structure, one which is efficient and reliable in operation, easy to manipulate and adjust, and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:—

Figure 1 is a rear elevation of a cultivator with my improved marker attachment mounted on the rear thereof.

Figure 2 is a perspective view of one of the chain supporting bars.

Referring to the drawing in detail, it will be seen that the cultivator C is of a well known type now on the market, and includes among other elements longitudinally extending bars 5 which are spaced transversely of the frame of the cultivator and support cultivating plows 6 of a well known form having slots 7 arranged vertically thereof. The beam of our improved marker attachment includes an intermediate portion 8 and end sections 9. The end sections 9 at their inner terminals are provided with enlargements or heads 10 having arcuate slots 11 therein. Bolts, pins or the like 12 pass through the ends of the intermediate sections 8 and through the ends adjacent the heads 10 of the end sections 9, thereby pivoting the end sections on the ends of the intermediate section 8. Bolts 15 pass through the ends of the intermediate sections 8 and through the slots 11 in the heads 10 so that the end sections 9 may be adjusted in different angular positions in relation to the intermediate section. Bolts 17 pass through the intermediate section 8 and through slots 7 so that the beam including the three sections 8 and 9 may be adjusted vertically of the cultivator blades 6. A plurality of markers 20 are mounted on the beam, two being mounted on each end section 9, and one at the center of the intermediate section 8. The end sections 9 are provided with a plurality of openings 21 so that the markers 20 may be adjusted thereon by removing and replacing the bolts 22. Brackets 23 are mounted on the bars 5 and are provided at their upper edges with an arcuately arranged series of teeth 24. A lever 25 is pivoted on each bracket and has a spring pressed pawl 25′ adapted to fit between the teeth 24. An extension 26 is provided to the outer side of each lever 25, and a rod 27 is attached thereto. An eye bolt 28 is mounted in an intermediate portion of each end section 9. A stop 29 is provided at the lower extremity of each rod 27. A stop 30 is fixed to an intermediate portion of each rod 27. Springs 31 are disposed about the rod 27 between the eye bolts 28 and the stops 30. It will thus be seen that by operation of the levers 25, the end sections 9 may be angularly adjusted in relation to the intermediate section 8. The springs 31 compensate for the unevenness of the ground as is evident.

Bracket arms 33 are twisted at their inner ends as at 34 and have U-shaped terminals 35 which engage the members 36 of the cultivator C. Bolts 37 pass through the apertures 38 of the bracket arms 33 and also through the members 36. Apertures 39 are provided at the outer extremities of the bracket arms 33 and receive eye bolts 40. These arms are located forwardly of the cultivator. Chains 41 are attached to the eye bolts 40 and extend downwardly and rearwardly and are fixed to the eye bolts 28 and thus brace the end sections 9 as the cultivator is moving along.

It is thought that the construction, operation, and advantages of the invention will now be clearly understood without a more detailed description thereof. The present embodiment of the invention has been disclosed merely by way of example and it is apparent that numerous changes in the details of construction, and in the combination and arrangement of parts may be resorted

to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described the invention, what we claim as new is:—

In combination, a wheeled frame, members depending from the frame and provided with vertical slots, an attachment including a horizontal beam, bolts passing through the beam and through the slots of the members whereby the beam may be vertically adjusted, marker blades on the beam, said beam comprising an intermediate section and a pair of end sections, said end sections being pivoted to the intermediate section and provided with arcuately slotted heads, bolts fastened in the intermediate section passing through the slots of the heads, brackets on the members provided at their upper edges with arcuately arranged teeth, levers pivoted to the brackets and having dogs engageable with the teeth, rods pivotally engaged with the levers, eyes attached to the end sections for receiving the rods, stops on the rods, one on each side of the eye, springs disposed between the upper stops and the eyes, chains connected to the forward portions of the frame and extending downwardly and rearwardly and attached to the end sections of the attachment.

In testimony whereof we affix our signatures.

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