

No. 797,149.

PATENTED AUG. 15, 1905.

A. H. PENCE.
CULTIVATOR.

APPLICATION FILED AUG. 10, 1904.

Fig. 1.

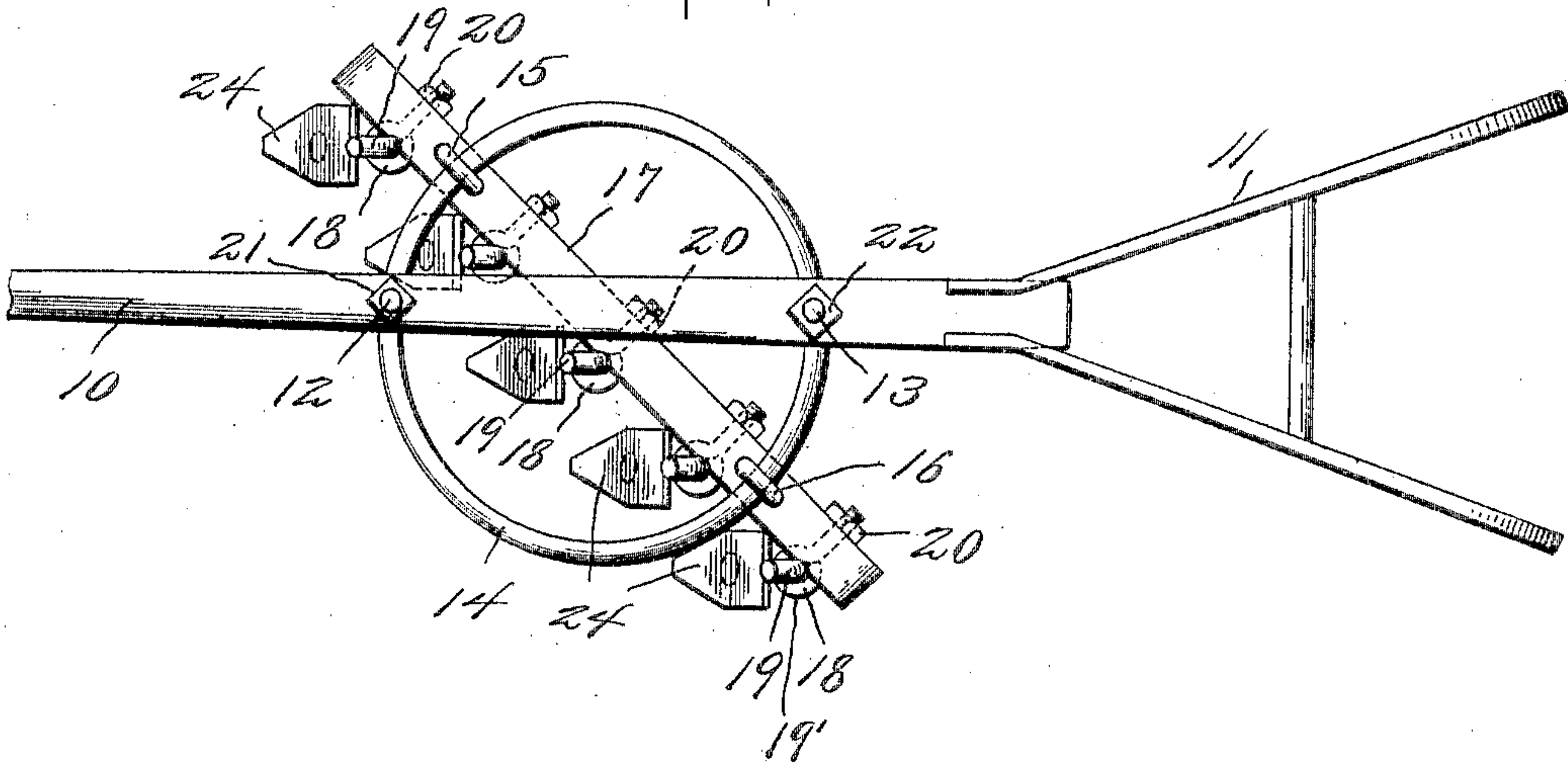


Fig. 2.

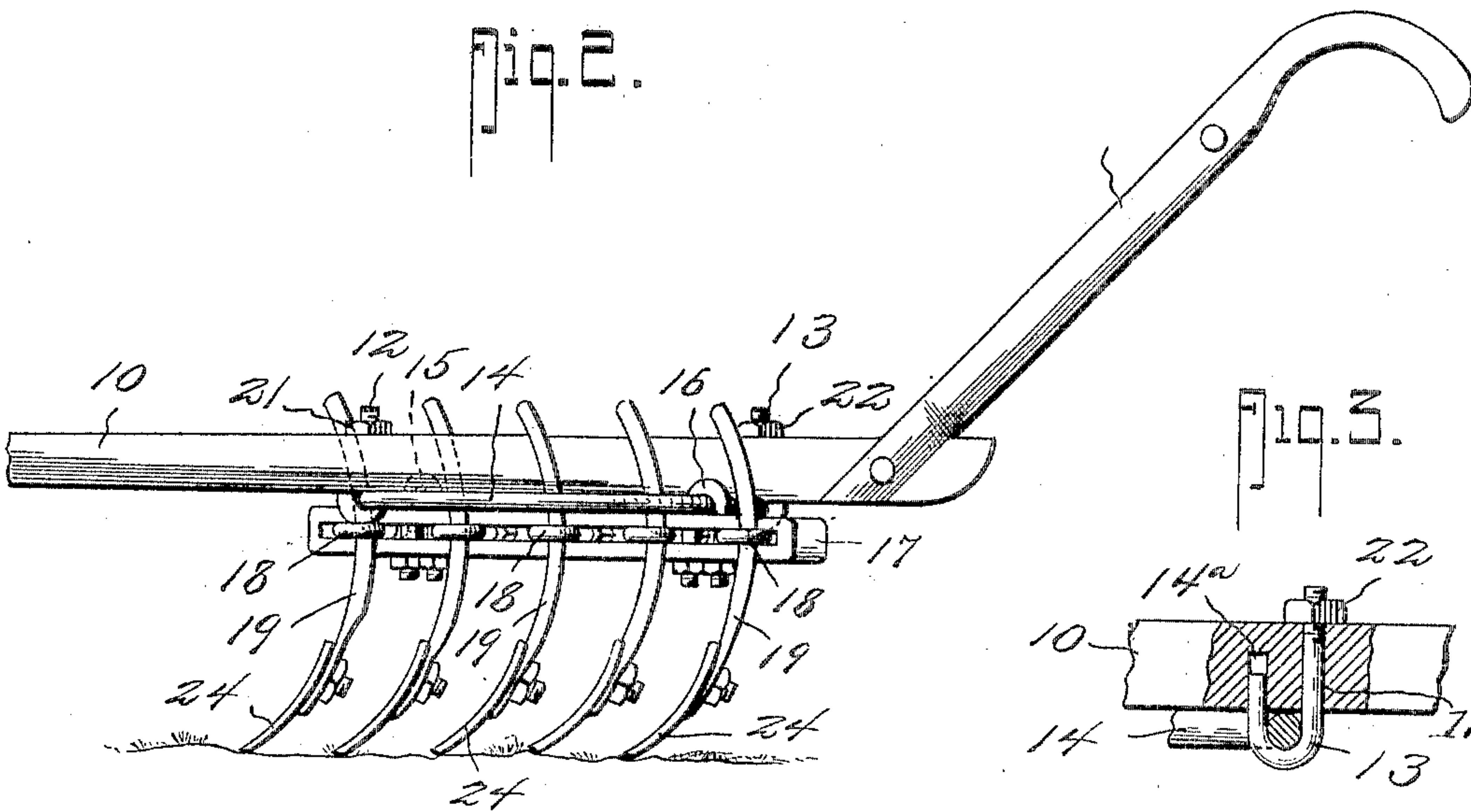
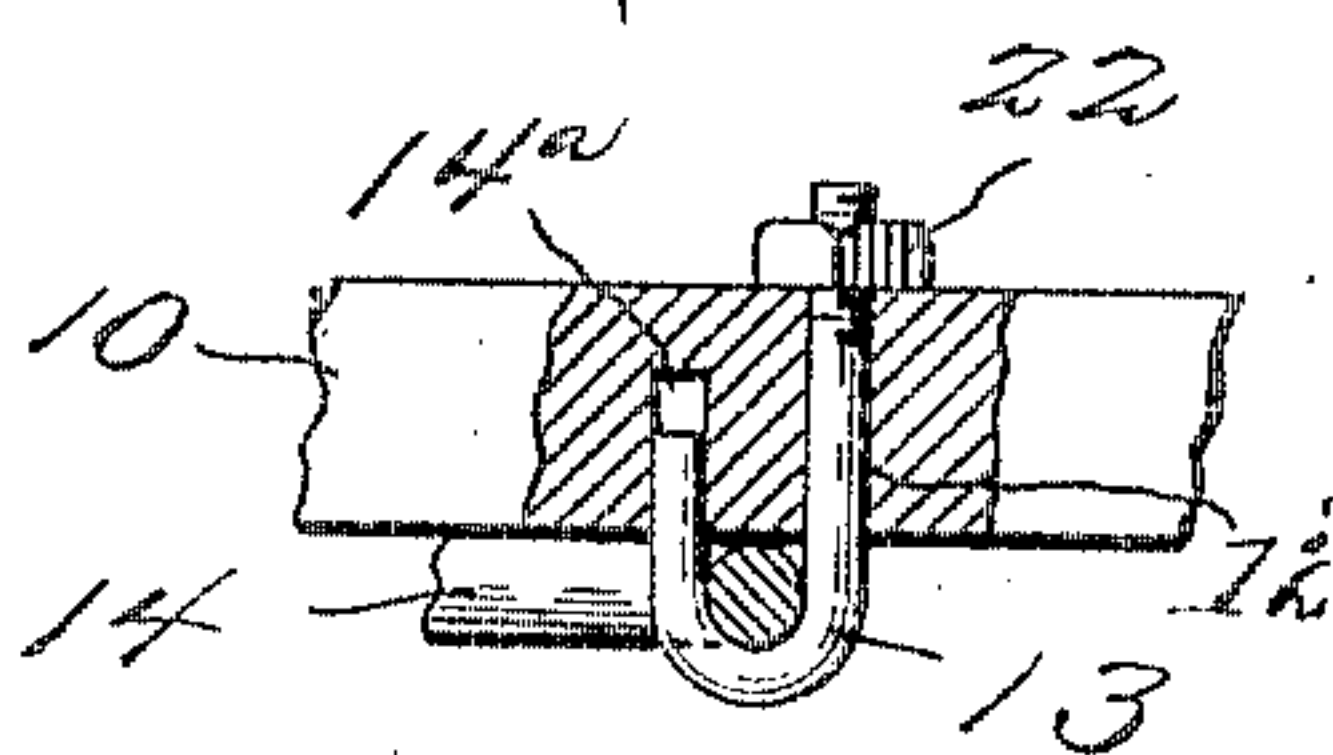


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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CULTIVATOR.

No. 797,149.

Specification of Letters Patent.

Patented Aug. 15, 1905.

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To all whom it may concern:

Be it known that I, ALONZO H. PENCE, a citizen of the United States, residing at Somerville, in the county of Morgan and State of Alabama, have invented a new and useful Cultivating Implement, of which the following is a specification.

This invention relates to cultivating implements; and it has for its object to simplify and improve the construction and operation of this class of devices.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinter fully described, and particularly pointed out in the claim.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being understood that no limitation is necessarily made to the precise structural details therein exhibited, but that such changes and alterations as fall properly within the scope of the invention may be resorted to when desired.

In said drawings, Figure 1 is a plan view of the implement complete. Fig. 2 is a side view. Fig. 3 is a sectional detail view of the adjusting-frame coupling.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The improved device comprises a draft-beam 10, to which draft-animals may be hitched in the usual manner, said beam being provided with handles 11. The draft-beam is provided with depending hook-bolts 12 13, the points of which engage recesses, as 14^a, in the under side of the beam, the latter being provided with perforations, as 12^a, for the passage of the shanks of the hook-bolts. The latter serve to secure in position an annular frame 14, consisting of a ring of suitable dimensions, preferably made of iron wire or rod, circular in cross-section and of suitable dimensions, the ends of such wire or rod being welded together, so as to form an integral ring or frame of such diameter as to engage the hooked ends of the bolts 12 13, which are provided with tightening-nuts 21 22, which may be tightened against the upper side of the beam, so as to secure the ring or frame 14 in contact with the under side of the latter.

15 and 16 are clips straddling the ring 14 at approximately diametrically opposite sides of the latter and extending through a cultivator head or beam 17, which is formed with spaced horizontal sides which are sufficiently separated for the passage between said sides of eyebolts 18, the heads of which 19' are partially extended between the spaced sides of the beam 17, as clearly seen in Fig. 1 of the drawings, so as to prevent said eyebolts from turning when the nuts 20 are tightened upon the shanks of said bolts against the rear side of the beam.

In the eyes of the eyebolts are fitted longitudinally-curved shanks or standards 19, carrying the earth-engaging shovels or blades 24, which latter may be of any desired construction. It will be readily seen that the blade-carrying shanks or standards are adjustable to a considerable extent and within a wide range by simply loosening and retightening the nuts upon the eyebolts. By raising or lowering the shanks the inclination of the blades with relation to the soil may be changed to the extent that when the standards are lowered the earth-engaging implements will dig into the soil and exercise a harrow action. Many intermediate positions are also possible. The shanks may be turned axially, so as to present the points of the blades straight to the front or at any desired angle to the line of progress. By tightening the nuts upon the eyebolts it will be seen that the standards will be clamped between the heads of said bolts and the upper and lower side members of the cultivator bar or head, there being three points of contact whereby great rigidity of attachment is insured, it being noted in connection therewith that the nuts may be tightened to any extent without twisting or turning the eyebolts, the heads of which enter between the side members of the cultivator-head. The latter may be adjusted transversely or obliquely with relation to the annular ring or frame, and the connection being made by means of clips the ring or frame is not weakened by bolt-holes and may therefore be constructed of light and inexpensive material, while at the same time the adjustment is not limited to the distance between the bolt-holes, but may be effected very minutely.

Any desired number of blade-carrying standards may be used and said standards may be spaced apart in any desired manner within the limits of the length of the cultivator head or beam, which latter may of course be made of any desired dimensions. Said head or beam and the annular frame may be adjusted independently of each other and with eminently satisfactory results.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a device of the class described, a beam, hook-bolts depending from said beam, a ring clamped adjustably upon the beam by said bolts, a cultivator-head including upper and lower side members spaced apart, clips connecting said head adjustably with the ring,

eyebolts extending between the upper and lower side members of the cultivator-head the heads of said bolts being partly extended between said side members to prevent turning or twisting of said bolts, tightening-nuts upon the latter, and blade-carrying shanks extending through the eyes of the bolts, said shanks being longitudinally curved and in engagement with the upper and lower side members of the cultivator-head and with the eyes of the bolts.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALONZO H. PENCE.

Witnesses:

J. A. MOORE,

W. C. THOMPSON.