

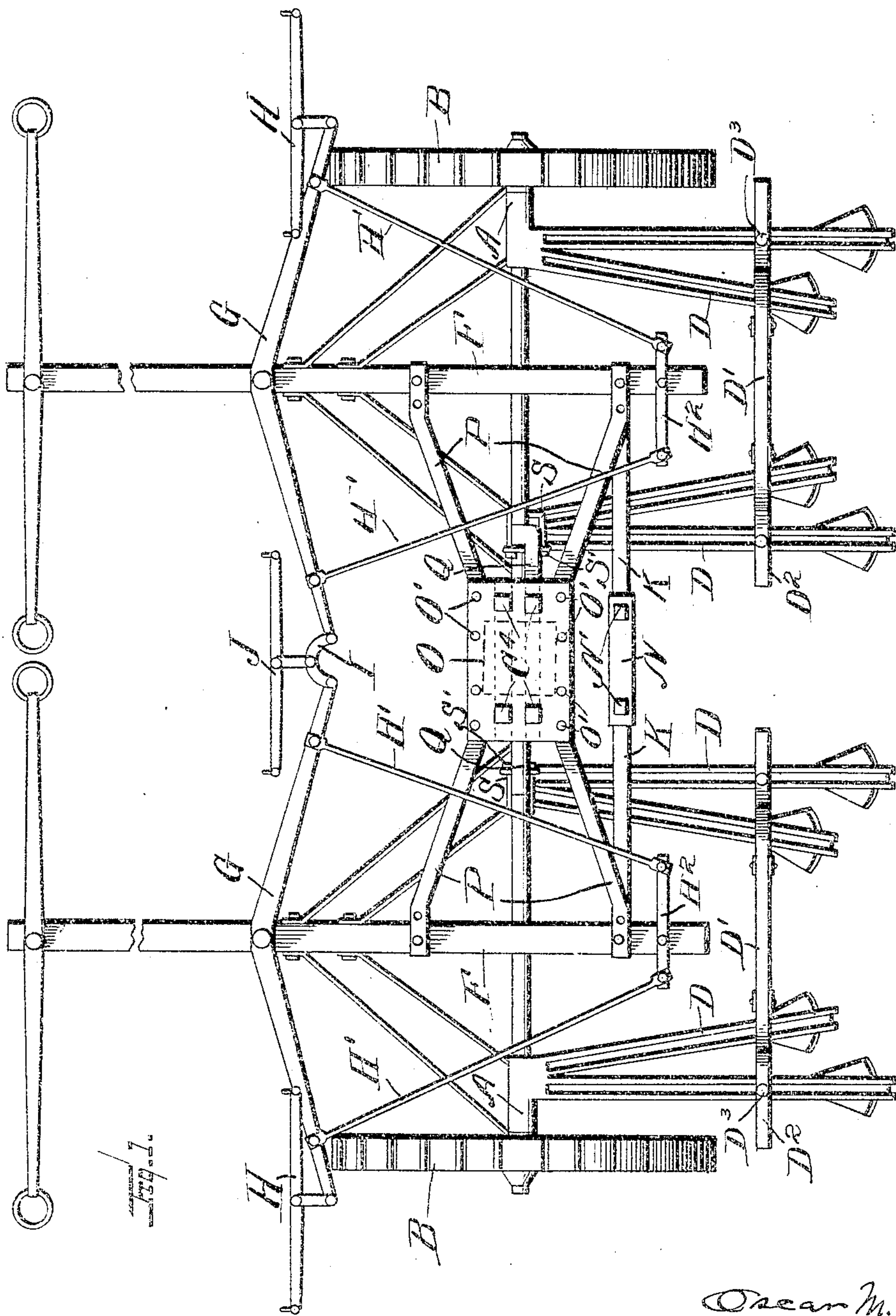
No. 778,724.

PATENTED DEC. 27, 1904.

O. M. VOILES.
CULTIVATOR.

APPLICATION FILED AUG. 3, 1904.

2 SHEETS—SHEET 1.



Witnesses
H. R. Hough
Clara S. Davenport

By

Inventor
Oscar M. Voiles
Franklin H. Hough
Attorney

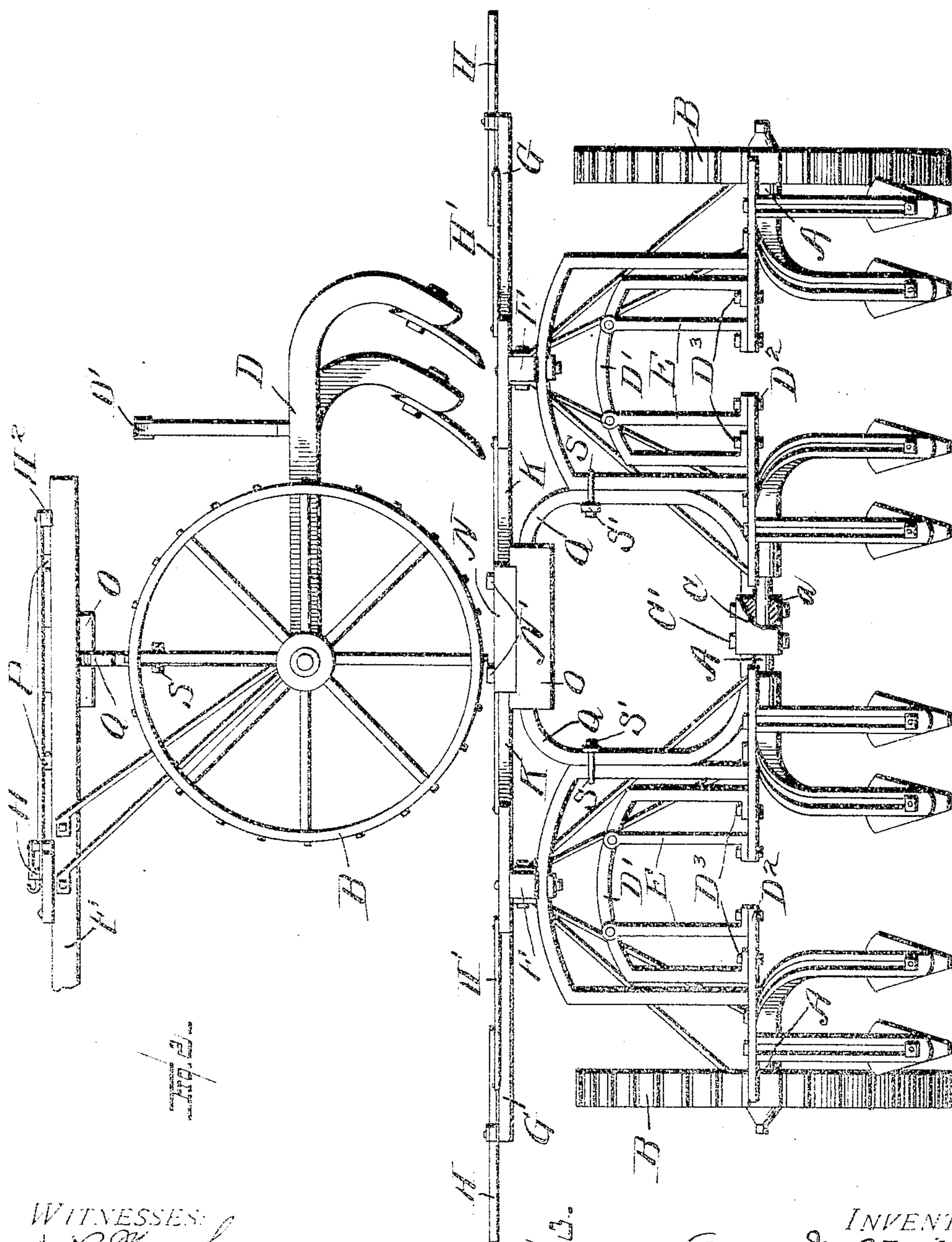
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WITNESSES:
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UNITED STATES PATENT OFFICE.

OSCAR M. VOILES, OF POPLARBLUFF, MISSOURI.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 778,724, dated December 27, 1904.

Application filed August 3, 1904. Serial No. 219,264.

To all whom it may concern:

Be it known that I, OSCAR M. VOILES, a citizen of the United States, residing at Poplarbluff, in the county of Butler and State of Missouri, have invented certain new and useful Improvements in Cultivators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in cultivators; and the object of the invention is to produce a device of this character which may be adjustable and so arranged as to cause the cultivator-plows to operate in connection with rows of different widths; and it consists in various details of construction and combinations of parts, which will be hereinafter fully described and then specifically defined in the appended claim.

My invention is illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings similar letters of reference indicate like parts in the views, in which—

Figure 1 is a top plan view of my improved adjustable cultivator. Fig. 2 is a side elevation. Fig. 3 is a rear view.

Reference now being had to the details of the drawings by letter, A A designate the two sections of the axle of the apparatus, which are bent to form arches, as shown, and have driving-wheels B journaled upon the outer horizontal ends thereof. The inner ends of said axle-sections are adapted to engage apertures *a* in a block C, which carries set-screws C', which are adapted to be tightened to hold the inner ends of the axles in adjusted positions, accordingly as it might be desired to bring the driving-wheels nearer together or farther apart. Projecting rearward from the lower portions of said stub-axles are the drag-bars D, which have fastened thereto the yokes D', which yokes are held to upon the plates D² by means of set-screws D³. Suitable bars

E are secured to the plates D² at their lower ends and at their upper ends to the yoke D'.

Fastened to each arched portion of the axle-sections is a draft-pole F, and pivotally connected to each of said poles is an angled evener G, fastened at its longitudinal center by means of a suitable bolt, and to the outer end of each of said eveners is fastened a whiffletree H, and suitable brace-rods H' are connected at their outer ends to the outer ends of said eveners, while their inner ends are fastened to a cross-piece H², pivotally connected to a pole. The inner ends of the eveners are pivotally connected to curved links I, which are pivotally connected together at their adjacent ends and to which a swingletree J is fastened, as shown clearly in the top plan view of the drawings.

K K designate two bars, which are fastened at their outer ends to the draft-poles F, and their inner ends are adapted to enter apertures in the socket-block N, which is provided with set-screws N', whereby the two bars may be drawn together and securely held by said set-screws or may be withdrawn partially from the block N, whereby the machine may be adjusted to a greater width.

O designates a block having braces P bolted or otherwise secured thereto, the outer ends of which braces are fastened to the draft-poles, as shown. Said block O has two holes therein for the reception of the ends of the two curved bracing-rods Q, and set-screws C⁴ serve to hold the ends of said curved rods in adjusted positions.

Staples S are provided which surround the sections of the curved brace-rods Q and arched portions of the axle, and by means of nuts S' upon the ends of said staples the staples may be drawn so as to securely bind the arched portion of the axle and the curved section of said rod, as will be clearly understood.

By the provision of the apparatus shown and described it will be observed that by the simple adjustment of the set-screws the two sections of the cultivator may be held nearer together or farther apart, thus producing a machine which may be easily and quickly adjusted for working fields in which the rows are nearer together or farther apart and pro-

ducing a machine which may be easily and quickly taken apart, if desired, for transportation.

While I have shown a particular detailed construction of apparatus embodying the features of my invention, it will be observed that I may vary the same, if desired, as to details of construction without in any way departing from the spirit of the invention.

10 Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

15 An adjustable cultivator comprising two arched sections with wheels journaled in the outer ends thereof, a block having apertures therein and carrying set-screws, said block adapted to receive the inner ends of said axle-sections and to be held by said screws in adjusted positions, draft-poles secured to said

arched axle-sections, a block having braced sections connected thereto and to said draft-poles, curved bracing-rods secured to said arched axle-sections, and having their upper ends held in said brace-engaging block, said curved brace-rods having vertical portions thereof secured to upright portions of said arched axle-sections and their lower portions curved toward each other, branching and slotted drag-bars secured to the axle-sections, and arched members connecting said drag-bars, as set forth. 20 25 30

In testimony whereof I hereunto affix my signature in presence of two witnesses.

OSCAR M. VOILES.

Witnesses:

W. H. MEREDITH,
FRED CHAPMAN.