(No Model.)

F. C. STROKER.

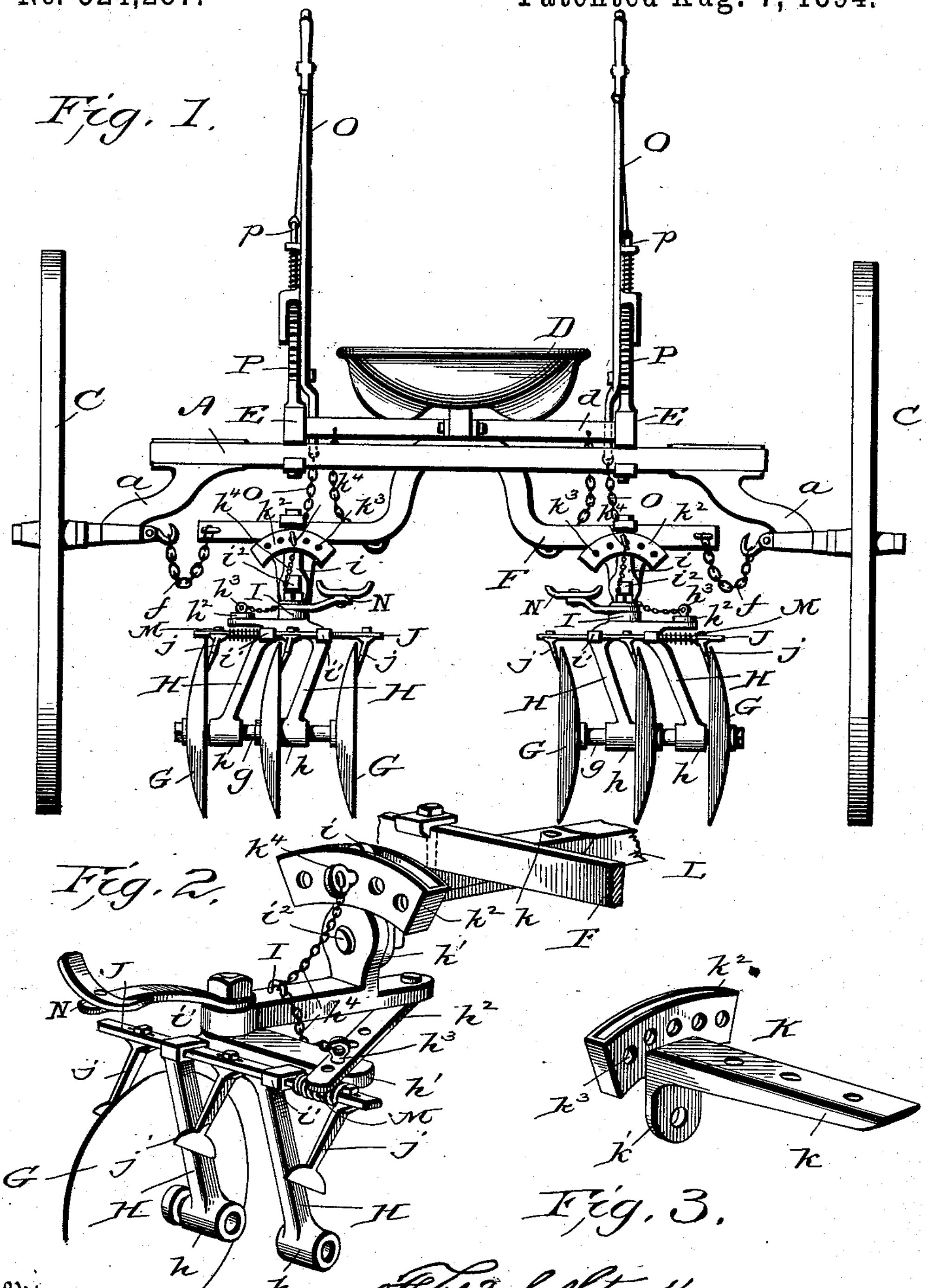
WHEEL CULTIVATOR.

No. 524,287. Patented Aug. 7, 1894.

Fig. 1.

Fig. 2.

Fig. 3.



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UNITED STATES PATENT OFFICE.

FRITZ C. STROKER, OF OLNEY, MISSOURI.

WHEEL-CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 524,287, dated August 7, 1894.

Application filed October 20, 1893. Serial No. 488,718. (No model.)

To all whom it may concern:

Be it known that I, FRITZ C. STROKER, a citizen of the United States, residing at Olney, in the county of Lincoln and State of Missouri, have invented a new and useful Wheel-Cultivator, of which the following is a specification.

My invention relates to that class of agricultural implements generally known as wheel cultivators, and which straddle the row to be tilled.

One object of my invention is the provision of simple instrumentalities for attaching the gangs to the connecting-arch, whereby the angle of the cultivating devices to the line of draft can be changed at will, and the pitch thereof adjusted to suit the slope of the hills.

A further object of my invention is to improve the general construction of this class of machines, whereby they are rendered durable, efficient, and easy of manipulation.

With these ends in view, and such others as appertain to the machine, the invention consists in the novel construction and combination of the parts, which will be hereinafter more fully described and claimed, and which are shown in the accompanying drawings, in which—

Figure 1 is a rear view of a wheel cultivator embodying my improvement. Fig. 2 is a detail perspective view of the coupling devices for connecting the gangs to the draft-beams. Fig. 3 is a detail view of the beam iron which is attached directly to the draft-beam.

The axle A is provided at each end with depending brackets *a*, having spindles at their lower ends, on which are mounted the wheels C.

The driver's seat D is supported on a cross-bar *d*, which is attached at its ends to the side frame-bars E, bolted to the axle A.

The arch F is connected at its ends with the bracket *a* by short chains *f*, and has the draft-beams and gangs bolted thereto near the ends. The cultivating-disks G, their supporting axle *g*, and the beams H constitute the gangs. The beams H are brought together at their forward ends, from which point a vertical journal extends to obtain a bearing in the rear end of casting I, and the lower ends have bearings *h*, in which the axle *g* is mounted. The connected beams H may be designated as a yoke, and will be so styled hereinafter, both in the description and claims.

The yokes are provided in pairs, rights and lefts, and incline in opposite directions to space the two sets of cultivating-disks the required distance apart without the necessity of bringing the coupling devices too near the brackets *a*.

The casting I has a vertical extension *i* near its front end. The beam-iron K has a forward flanged extension *k*, to which the draft-beam L is bolted, a depending lug *k'*, to which the vertical extension *i* is pivotally connected by bolt i^2, and a hollow segmental head k^2, having a series of openings k^3. The upper end of the projection *i* projects into the hollow head k^2 and is adjustably connected therewith by pin k^4, which passes through the said extension *i* and one of the series of openings k^3.

The brace h^2 is pivoted at one end to the front extension or portion of the casting I, and has a series of openings to receive a pin h^3, by means of which it is adjustably connected with the lateral arm *h'* of the yoke, said yoke being provided near its upper end with rearwardly-extending supports *i'*, adapted to secure in position a scraper-bar J. The pins k^4 and h^3 are connected by short chains h^4 to a suitable portion of the machine, as the casting I, to prevent accidental misplacement or loss when withdrawn from their normal or operative position.

The scrapers *j*, of usual construction, are adjustably connected at their upper ends with the scraper-bar J, and are arranged to operate laterally against the cultivating-disks G, to clear them of trash. The bar J is adapted to move in the supports *i'*; and a coil spring M, mounted thereon and confined between one of the supports *i'* and a suitable stop on the bar J, as one of the scrapers, serves to act on the said bar to hold the scrapers in operative position against the cultivating-disks.

A foot-rest N is secured to the casting I by the same bolt which fastens the yoke thereto. This foot-rest is curved slightly to prevent the foot from slipping, and is adapted to turn freely.

In order that the gangs may be lifted clear

of the ground when desired, as at the ends of rows when turning, hand-levers O are provided, and mounted, one on each side-bar E, and suitably connected with the gangs by chains *o*. A notched segment P is provided for each hand-lever O, and is engaged by the usual hand-latch *p* to hold the lever in the required position.

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

1. In a wheel cultivator, the combination, with a beam-iron having a vertically-disposed segment, of a casting having a vertical extension pivotally connected to the said beam iron, means for adjustably connecting the vertical extension with the segment, and a cultivator-gang attached to the said casting, substantially as described.

2. In a wheel cultivator, the combination, with a draft-beam, of a beam-iron having a vertically-disposed segment, a casting pivotally connected at its front end to the said beam-iron and having a disk-carrying yoke pivotally connected to its rear end, a vertical extension formed on the forward end of the casting, and means for adjustably connecting the vertical extension to the said segment.

3. In a wheel cultivator, the combination, with a draft-beam, of a beam-iron having a vertically-disposed segment, a casting having a vertical extension pivotally connected to the said beam-iron, means for adjustably connecting the vertical extension with the segment, a brace pivotally connected to the forward end of said casting, a disk-carrying yoke, having a lateral arm at its upper end, pivotally connected to the rear end of said casting, and means for adjustably connecting said brace and lateral arm.

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

FRITZ C. STROKER.

Witnesses:
LUTHER WARD,
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