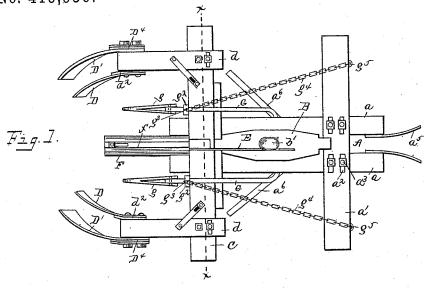
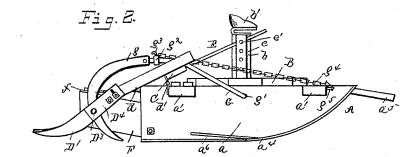
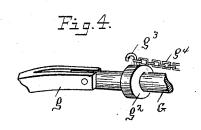
W. H. FULLER. CULTIVATOR.

No. 419,936.

Patented Jan. 21, 1890.







Witnesses

William S. Hodges, Robert Jennings. Inventor

William N. Feeller,

By Li attorney

Patrick O' Famell.

UNITED STATES PATENT OFFICE.

WILLIAM H. FULLER, OF BLADEN, NEBRASKA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 419,936, dated January 21, 1890.

Application filed October 23, 1889. Serial No. 327,883. (No model.)

To_all whom it may concern:

Be it known that I, WILLIAM H. FULLER, a citizen of the United States of America, residing at Bladen, in the county of Webster and State of Nebraska, have invented certain new and useful Improvements in Cultivators, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to certain new and useful improvements in cultivators, being an improvement on the construction shown and described in Letters Patent No. 397,795, granted to me January 29, 1889; and it comprises the details of construction, combination, and arrangement of parts, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is 20 a plan view of my improved cultivator. Fig. 2 is a side elevation. Fig. 3 is a vertical cross-sectional view on the line x x, Fig. 1. Fig. 4 is a detail perspective view.

Referring to the drawings, A designates the 25 sled or cultivator frame composed of two runners a a, adjustably connected together by transverse bars a' through slots a^2 , in which are passed nutted bolts a^3 . The runners are provided on their lower edges with steel plates 30 a^4 , and at their forward ends with opposite outwardly curved arms a⁵ for proper guidance of the corn. Between the plates a^4 and the runners a are secured the inner ends of divergent knives a^6 a^6 , as shown. The transverse bars a' are connected at their centers by a bar B, upon a post b of which is secured the driver's seat b'. The knives a^6 are made of thin spring metal, so that they can spring and adjust themselves to any listed furrows, 40 and conform to inequalities in the earth's surface. These knives are also self-sharpeners, since they wear from the under side.

C is a frame composed of one cross-bar and two end bars d d, to which are adjustably se-45 cured leveling-arms D D'. This frame is pivotally secured to frame A by hinges d', attached thereto and to the rear transverse bar a'. A foot or hand lever E is secured at its rear end to frame C, and is projected between a plate e and post b, to which and bar b said plate is secured. This plate has a secured through which a pin e' is ries of apertures, through which a pin e' is inserted to hold the frame at any angle. The l

leveling-arms D have each a single strengthening-piece d^2 secured to its outer side by 55 bolts or rivets D⁸, while the outer longer arms D' have two such strengthening-pieces D⁴ similarly secured. A shield F, having an adjustable bar f, is secured to the rear end of runners a similarly to that described in my 60

before-mentioned patent.

G G are the cultivator drag-bars, having rear pivoted sections g g. The forward ends of said drag-bars are bent at right angles and inserted through coincident apertures g' of 65 runners a. Upon these drag-bars are secured adjustable collars g^2 , having hooks g^3 , to which are secured chains g^4 , the forward ends of said chains being connected to bails g^5 of the front transverse bar a'. By means of 70 these chains and collars the drag-bars can be held at any desired point, and can also be readily elevated and caused to rest on the front bar a'.

The advantages of my invention will be at 75 once apparent, and it will be particularly observed that by means of the pivoted frame and foot-lever the operator can readily and easily raise and lower the leveling-arms to any desired point.

I claim as my invention—

1. As an improvement in cultivators, the combination, with the main frame having the transverse bars, of the rear frame pivotally secured to one of said bars and having rear- 85 wardly-projecting arms, and the levelingarms adjustably secured thereto, substantially as set forth.

2. The combination, with the main frame, of the rear frame pivotally secured thereto 90 and carrying the leveling-arms, the foot-lever secured to said rear frame, and the means for securing the same, substantially as set forth.

3. The combination, with the main frame, of the drag-bars having their forward ends 95 secured thereto, the adjustable collars on said drag-bars provided with hooks, and the chains connected to said hooks and to said main frame, substantially as set forth.

In testimony whereof I affix my signature in 100 presence of two witnesses.

WILLIAM H. FULLER.

Witnesses: DAVID B. SPANOGLE. JAMES ANDERSON.

