

No. 652,199.

Patented June 19, 1900.

J. M. SUGG.
COTTON SCRAPER.

(Application filed Feb. 24, 1900.)

(No Model.)

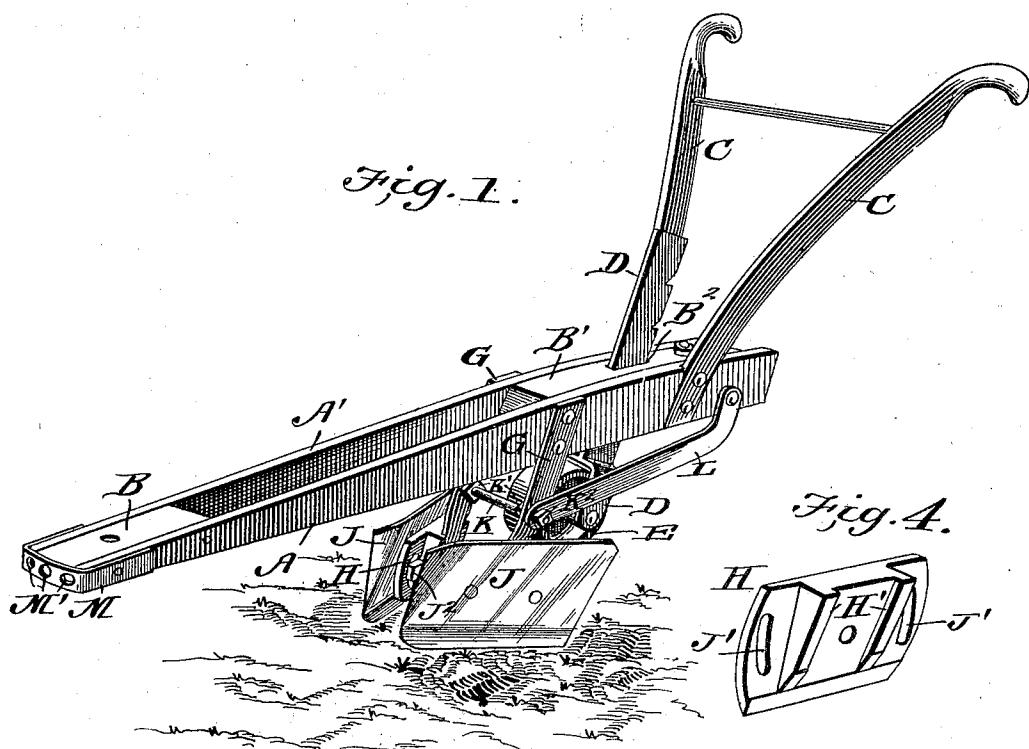


Fig. 2.

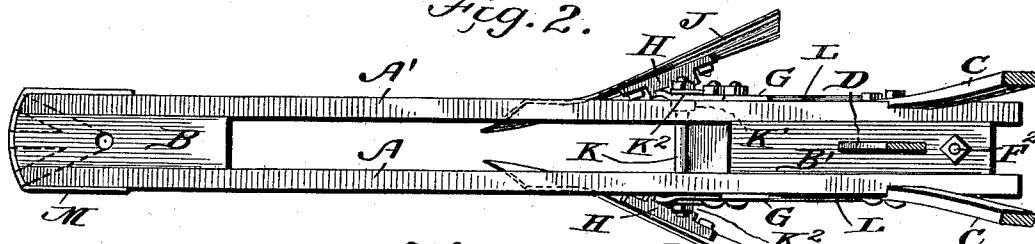
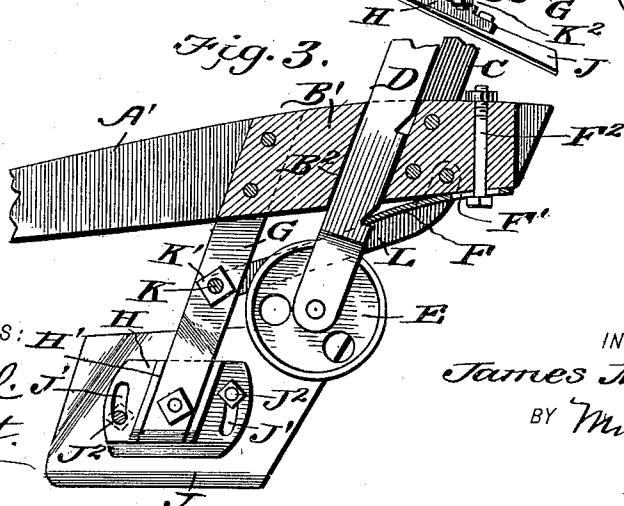


Fig. 3.



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JAMES MONROE SUGG, OF HARKEY, ARKANSAS.

COTTON-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 652,199, dated June 19, 1900.

Application filed February 24, 1900. Serial No. 6,347. (No model.)

To all whom it may concern:

Be it known that I, JAMES MONROE SUGG, of Harkey, in the county of Yell and State of Arkansas, have invented a new and useful Improvement in Cotton-Scrapers, of which the following is a specification.

My invention is an improvement in that class of agricultural implements used in scraping the soil away from rows of growing cotton-plants preparatory to their being hoed, thus leaving the plants on a tapering ridge; and it has for its object a device of this character which will scrape from both sides of a row at the same time, which will permit of the adjustment of each scraping-blade and the adjustment of the blades laterally with respect to each other, and which will permit the person who is following the scraper to perceive at all times the position of the blades while scraping.

The invention consists in certain details of construction, which I shall hereinafter describe and claim.

Reference is to be had to the accompanying drawings, forming part of this specification, in which like characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of my improved cotton-scaper. Fig. 2 is a plan view thereof. Fig. 3 is a longitudinal section of a portion of the implement, drawn through the beam; and Fig. 4 is a detail perspective of the scraper-carrying plate.

The beam of my improved scraper consists of two side strips A A', secured to intervening blocks B B' at the front and rear, whereby a space is formed in the beam extending the major portion of the length thereof in order that the row of plants may be conveniently seen by the one following the scraper. Through the rear block B', between and in front of the handles C, extends a slot B², in which is adapted to fit the notched shank of a fork D, in which is journaled a transportation-roller E, the shank being held at different heights, as desired, by the engagement therewith of a sliding latch F, in whose elongated slot F' a clamping-bolt F² is fitted, the said bolt extending through the block B', as shown in Fig. 3. If desired, the fork D may be entirely with-

drawn from the scraper when the same is in operation.

From each side of the beam of the scraper depends a standard G, twisted at its lower end in a forward direction and having attached thereto by a bolt or in any suitable rigid manner a plate H, having flanges H', engaging the side edges of the standard, so as to prevent the plate from turning laterally. The surface of the plate H between the flanges H' is beveled or inclined and being secured to the standard aids in giving the desired set to the scrapers. The plates H are adapted to support the scraping-blades J, and for this purpose are each formed with corresponding segmental slots J', through which extend fastening devices J², secured to the blades. By this means the two blades are held converging toward each other at their forward ends, and each blade may be adjusted in a vertical plane, so as to raise or lower the points of the blades.

A threaded rod K extends from one standard to the other above the blades and is provided at each end with nuts K' K², one on the inside and the other on the outside of the standard, and the object of this rod and nuts is to hold the standards and the blades nearer to or farther from each other, according to the width of the row which it is desired to scrape, and they perform the additional function of assisting to hold the standards and blade rigid and support the forward ends of braces L, whose rear ends are secured to the beam in the rear of the handles.

The clevis end of the beam is approximately semicircular in shape and is reinforced by a plate M, through which radial openings M' extend, so that the draft may be applied to allow the horse to walk along either side of the row of plants with the beam extending directly above the row. The clevis may be set in any of the openings, the construction operating as an evener, so the horse can walk on either side of the row.

It will be seen that I have provided a scraping implement which will effectually scrape from both sides of the plants at the same time, in which the angle and proximity of the scraping-blades can be changed, and in which a

view may be conveniently had of the row of plants.

Having thus described my invention, what I claim as new, and desire to secure by Letters 5 Patent, is—

1. A cotton-scraper, comprising a beam, a standard depending from each side of said beam and carrying a scraping-blade at its lower end, and a rod extending from one standard to the other and provided with nuts whereby to adjust the position of the standards independently of the beam, as set forth.

2. A cotton-scraper, comprising a beam, a standard depending from each side of the beam and having a forwardly-twisted lower end, a blade-supporting plate secured to the twisted end of each standard and formed with flanges engaging the side edges of the standard, the said plates being formed with segmental slots, and scraping-blades having fastening and adjusting devices working in said slots, the said blades being adapted to straddle the row of plants, as set forth.

3. A cotton-scraper, comprising spaced-apart converging scraping-blades adapted to straddle a row of plants, a beam provided with

spaced-apart sides forming a space extending the major portion of the length of the beam whereby to permit the row of plants and the blades to be conveniently viewed and means 30 for adjusting the blades independently of the beam, as set forth.

4. In a cotton-scraper, a beam formed of side strips secured at its forward and rear ends to intervening blocks, a fork carrying 35 a transportation-roller and provided with a notched shank loosely fitting in a slot in the rear block, and a sliding latch secured to the under face of said block and having a clamping-bolt, as and for the purpose set forth.

5. In a cotton-scraper the combination of the standard, a blade-supporting plate secured to and provided with flanges overlapping the standard and having segmental slots on opposite sides of its center, the blade and the 45 securing devices for said blade operating in the slots of the supporting-plate substantially as set forth.

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Witnesses:

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