

No. 813,085.

PATENTED FEB. 20, 1906.

J. D. FAIRLESS.
COTTON SCRAPER.
APPLICATION FILED SEPT. 25, 1905.

Fig. 1.

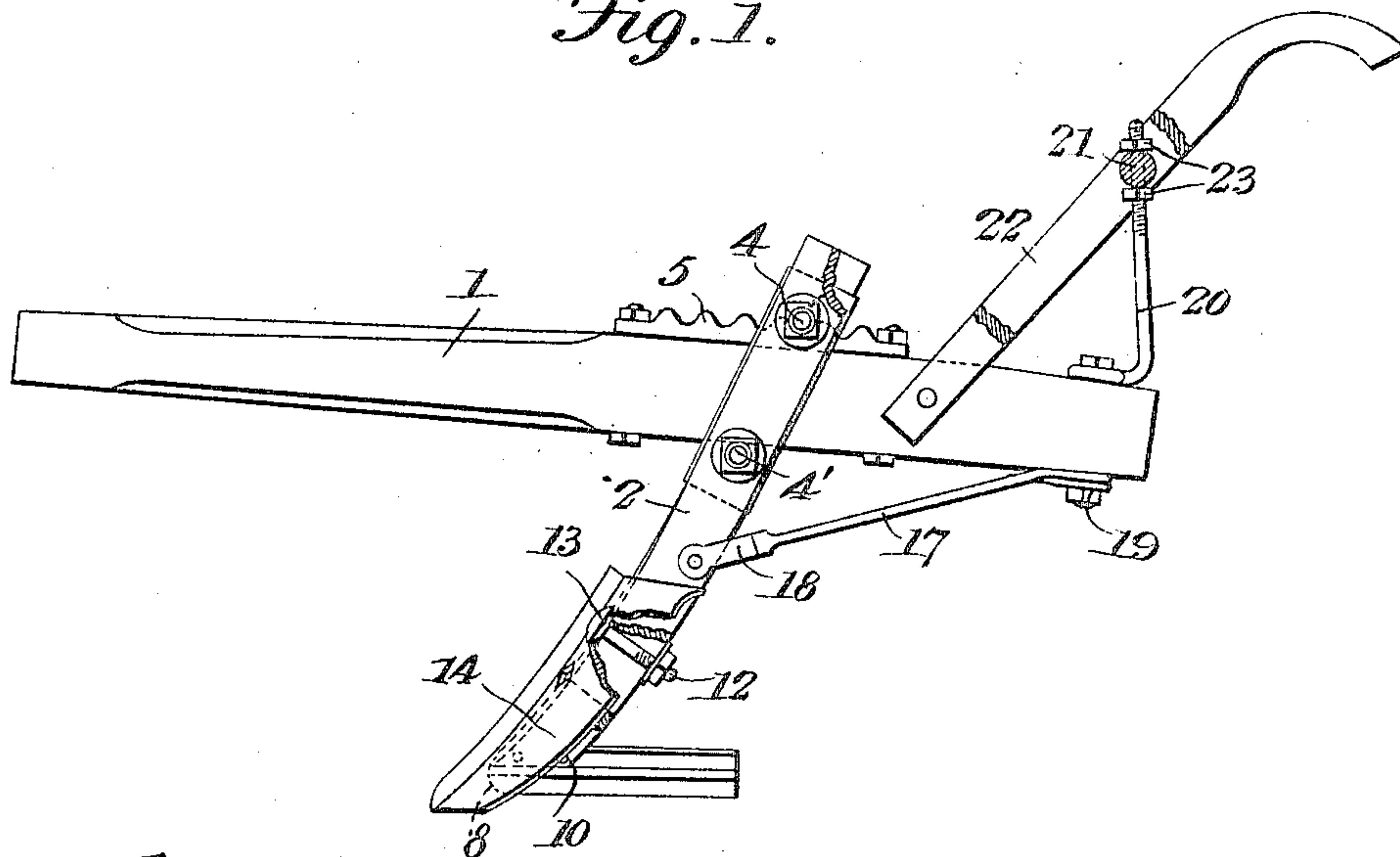


Fig. 3.

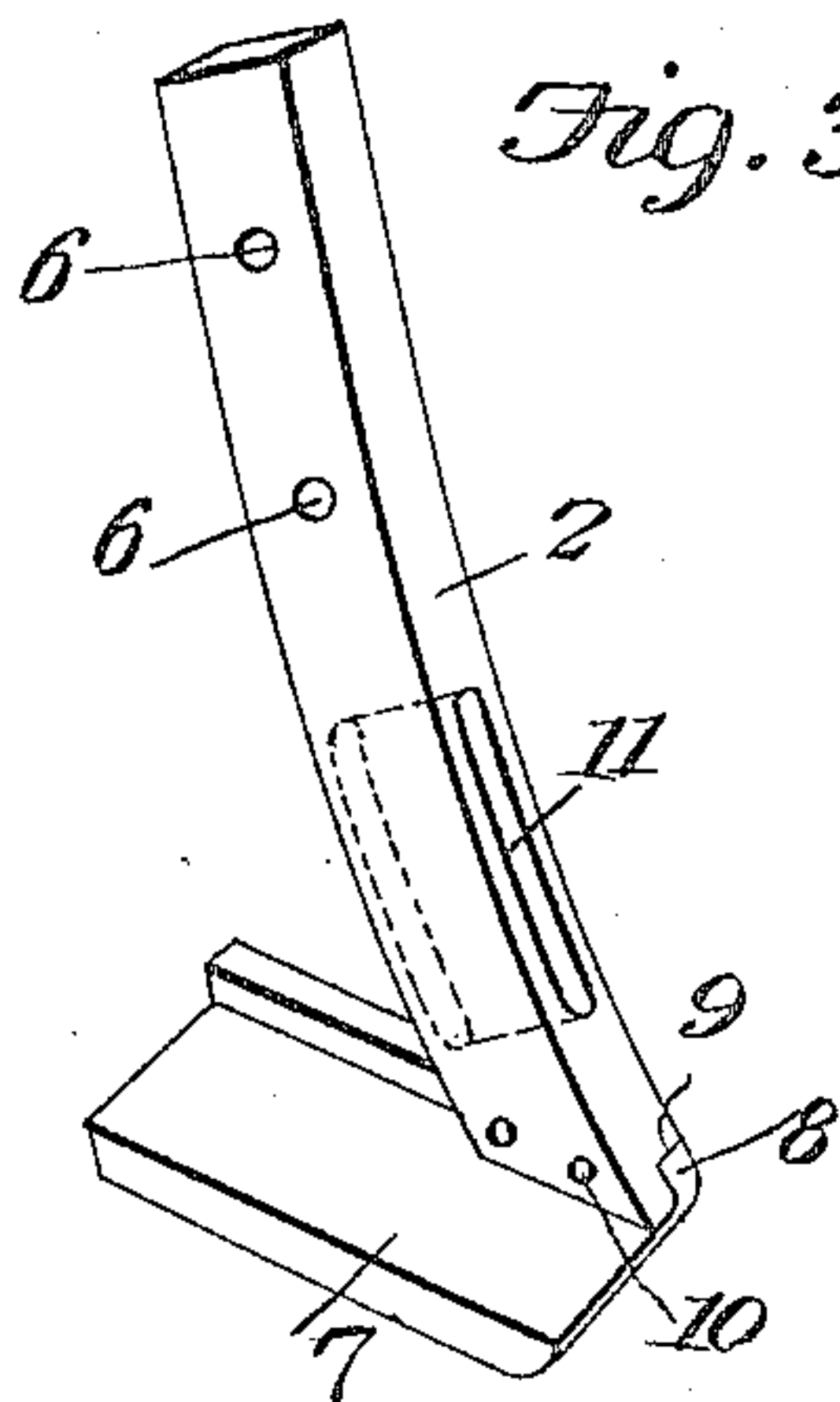


Fig. 2.

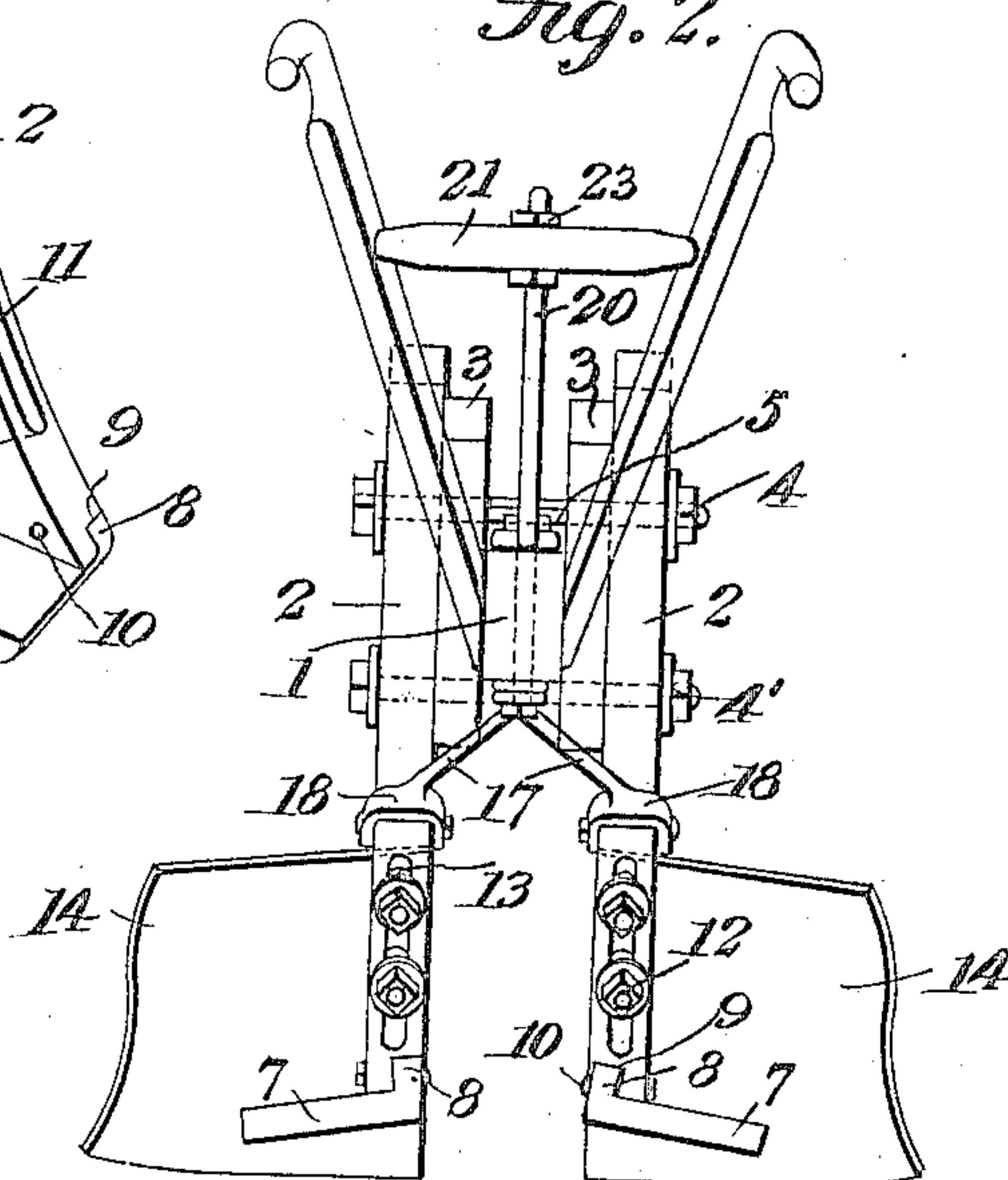
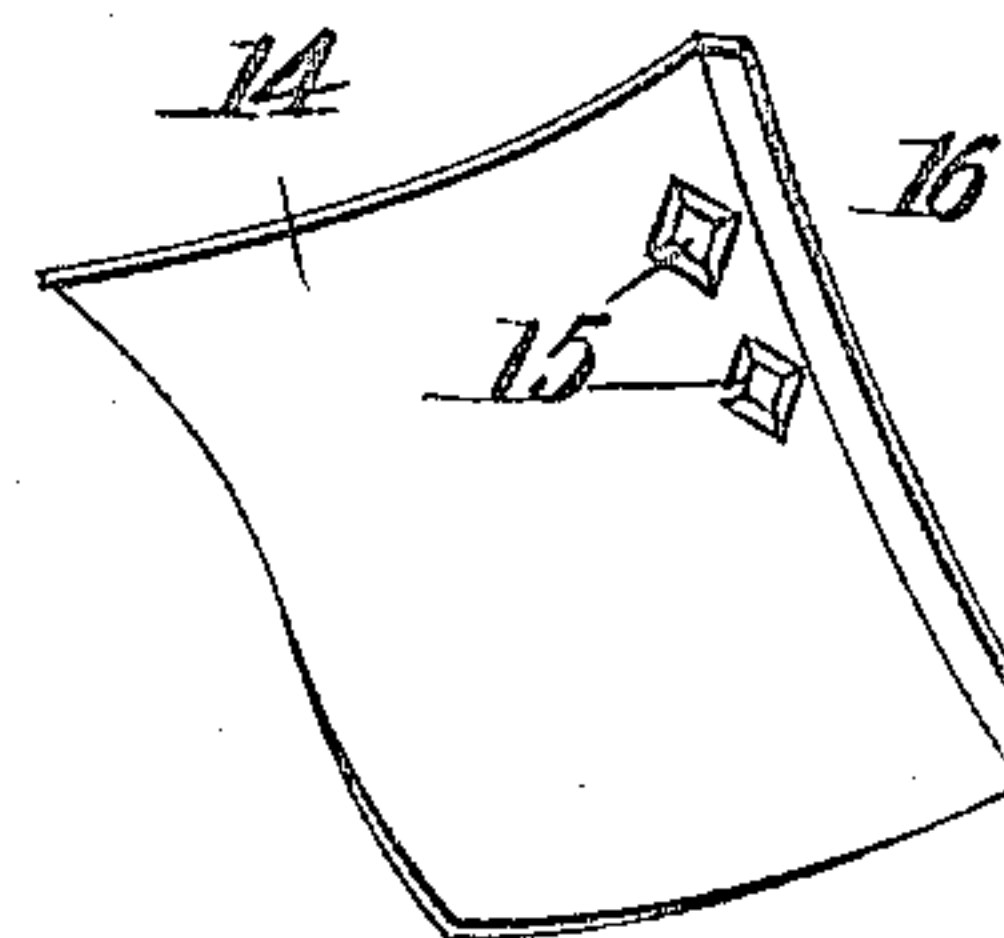


Fig. 4.



Witnesses
E. H. Stewart
Wm. Baggett

James D. Fairless, Inventor.
by C. A. Snow & Co.
Attorneys

UNITED STATES PATENT OFFICE.

JAMES D. FAIRLESS, OF IUKA, MISSISSIPPI.

COTTON-SCRAPER.

No. 813,085.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed September 25, 1905. Serial No. 280,011.

To all whom it may concern:

Be it known that I, JAMES D. FAIRLESS, a citizen of the United States, residing at Iuka, in the county of Tishomingo and State of Mississippi, have invented a new and useful Cotton-Scraper, of which the following is a specification.

This invention relates to cotton-scrapers; and it has among its objects to present a device of this class of improved construction which shall be capable of operating simultaneously upon both sides of the row, in which the scraper-carrying standards may be spaced at various distances apart, according to the size of the plants, and which shall possess superior advantages in point of simplicity, durability, and general efficiency.

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 hereinafter fully described, and particularly pointed out in the claims.

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

In the drawings, Figure 1 is a side elevation of a cotton-scraper constructed in accordance with the principles of the invention, the same being shown partly in section. Fig. 2 is a rear elevation. Fig. 3 is a perspective detail view of one of the standards. Fig. 4 is a perspective detail view of one of the scraper-blades.

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

The improved device includes a beam 1 and a pair of standards 2 2, disposed on opposite sides of the beam and spaced therefrom by intermediate washers or blocks, preferably of wood, 3 3, the thickness of which determines the spacing of the standards from the beam. The standards are connected together and clamped upon the beam by means of bolts 4 4', which pass through the blocks 3 3, but which extend, respectively, above and below the beam, thus avoiding weakening the latter by any transverse perforation or bolt-hole. Upon the upper side of the beam

is mounted a corrugated plate 5, in one of the corrugations of which the bolt 4 is supported for the purpose of preventing longitudinal displacement.

The standards 2 2, which are made of iron or steel, are provided with apertures 6 6 for the passage of the bolts 4 4', and the lower ends of said standards are curved slightly in a forward direction and are provided at their lower extremities with shoes or runners 7, the inner edges of which have flanges 8 engaging recesses 9 in the lower ends of the standards, with which they are connected by fastening means, such as rivets or bolts 10. The shoes 7 are connected with the standards in such a manner as to slant downwardly and outwardly from the lower ends of the standards, as will be clearly seen in Fig. 2 of the drawings, thus enabling said shoes or runners to travel smoothly upon the ridge on opposite sides of the row of plants that are to be operated upon. The standards are provided near their lower ends with longitudinal vertical slots 11 for the reception of fastening means, such as bolts 12, having square countersunk heads 13 for the attachment of the scraper-blades 14, which are provided with square countersunk openings 15 for the reception of the bolt-heads, which latter will thus be flush with the faces of the blades. The blades are provided at their inner edges with flanges 16, operating adjacent to the plants and serving to prevent clods and stones being thrown against the latter.

The standards 2 2 are connected with the rear end of the beam by means of braces 17, the front ends of which are bifurcated, as shown at 18, to engage said standards. The rear ends of the braces are connected with the beam by means of a bolt 19, which also serves for the attachment of an upright brace 20, the upper end of which is screw-threaded and extends through a rung 21, connecting the handles 22, which are pivotally secured on opposite sides of the beam, and the handle ends of which may be raised or lowered by adjusting the nuts 23 upon the brace 20 adjacent to the rung 21.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. The construction is simple and inexpensive. The device may be readily adjusted to operate upon plants at various stages of their growth. The slanting or tilted foot-pieces or runners will

serve to pack the soil against the roots of the plants, and the general construction is simple, inexpensive, and durable.

Having thus described the invention, what is claimed is—

1. In a cotton-scraper, a beam, a pair of standards connected with and spaced from the sides of the beam, downwardly and outwardly inclined foot-pieces at the lower ends of the standards, and blades supported adjustably upon the latter.

2. In a cotton-scraper, a beam, a pair of standards spaced from and connected with opposite sides of the beam, flanged foot-pieces forming runners at the lower ends of the standards, and flanged blades supported adjustably upon the standards.

3. A beam, standards disposed at opposite sides of the beam, clamping-bolts connecting

said standards, bifurcated braces connected with the standards and extending rearwardly and abutting upon the under side of the beam, an upright brace supported upon the beam and having a screw-threaded upper end, a bolt extending through the upright brace, the beam, and the bifurcated braces, handles connected pivotally with the beam, a rung connecting the handles and apertured for the passage of the screw-threaded brace, and clamping-nuts upon the latter.

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

JAMES D. FAIRLESS.

Witnesses:

J. A. CHENAULT,
P. J. WILLIAMS.