No. 620,109. Patented Feb. 28, 1899.

M. M. DOWNER.

PORTABLE SHADE FOR COTTON PICKERS.

(Application filed Jan. 21, 1898.)

(No Model.)

2 Sheets—Sheet 1.

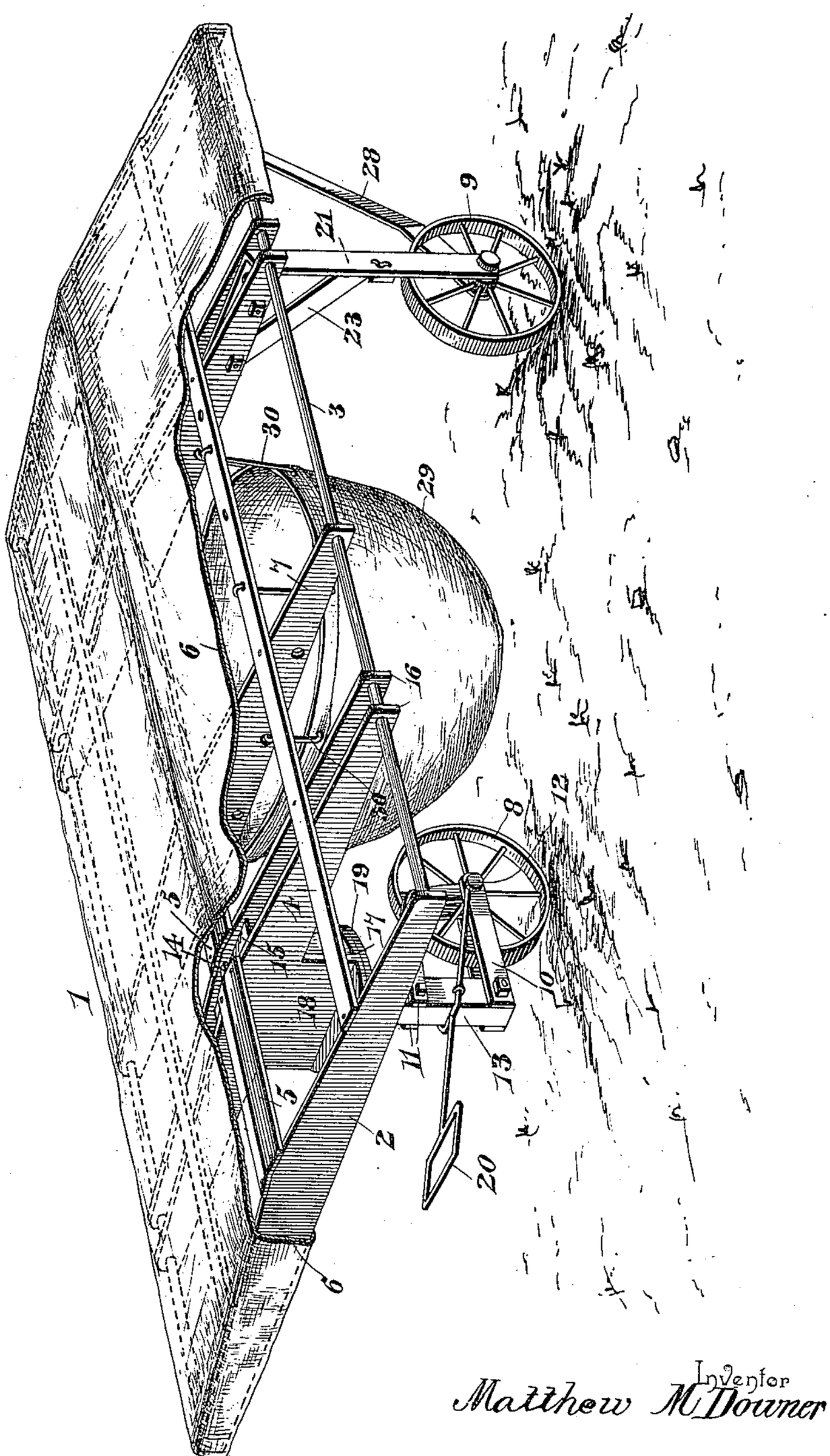

Fig. 1.

Witnesses
Jas. K. McCathran
T. J. Riley.

Inventor
Matthew M. Downer

By his Attorneys,

C. A. Snow & Co.

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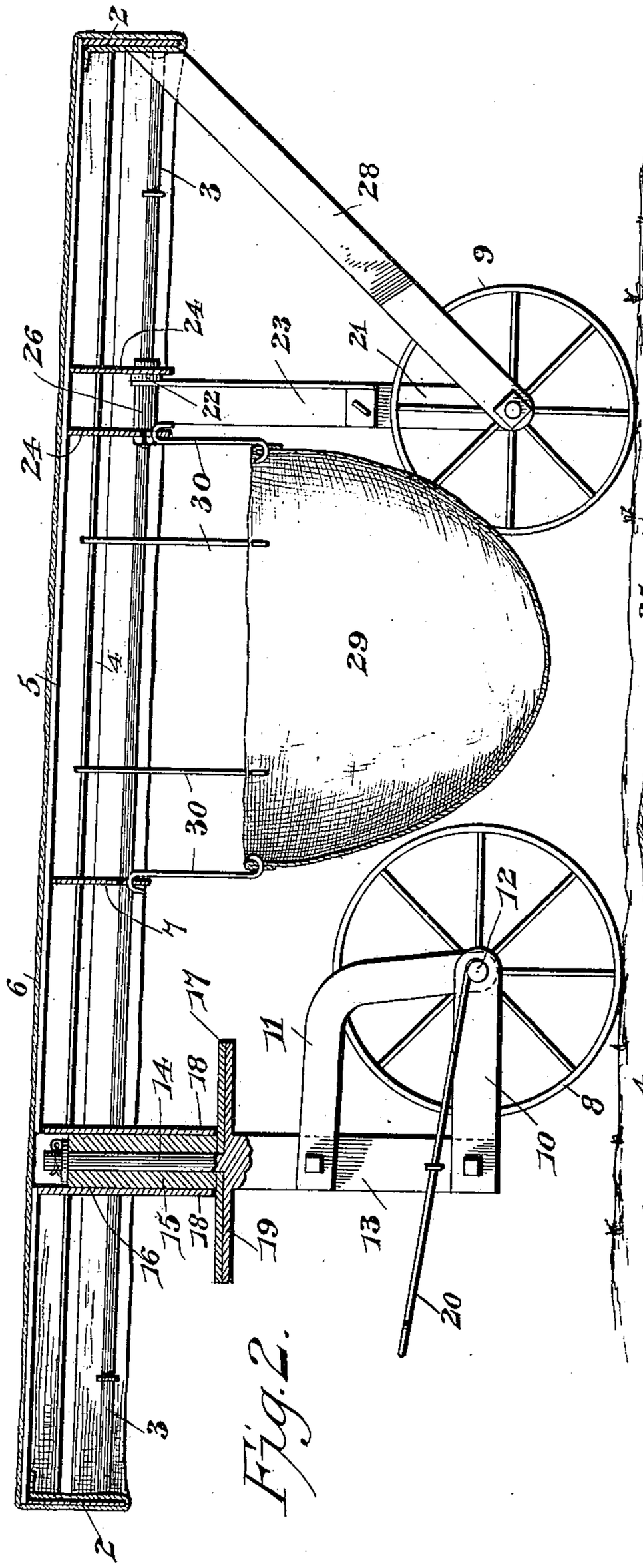

Fig. 2.

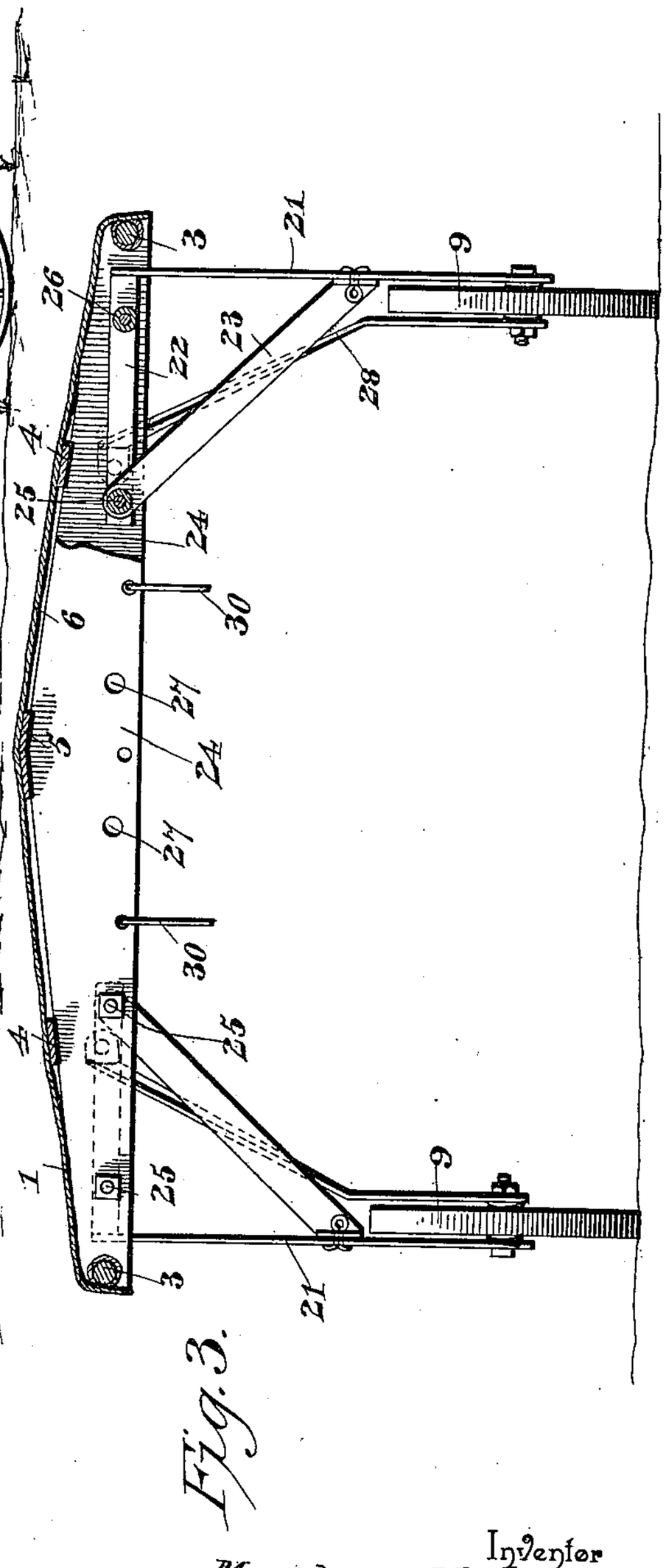

Fig. 3.

Witnesses
Jas. E. McCathran
T. J. Riley

Inventor
Matthew M. Downer

By his Attorneys,
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

MATTHEW MARDOYOUR DOWNER, OF JONESVILLE, TEXAS.

PORTABLE SHADE FOR COTTON-PICKERS.

SPECIFICATION forming part of Letters Patent No. 620,109, dated February 28, 1899.

Application filed January 21, 1898. Serial No. 667,458. (No model.)

To all whom it may concern:

Be it known that I, MATTHEW MARDOYOUR DOWNER, a citizen of the United States, residing at Jonesville, in the county of Harrison and State of Texas, have invented a new and useful Portable Shade for Cotton-Pickers, &c., of which the following is a specification.

The invention relates to improvements in portable shades for cotton-pickers.

The object of the present invention is to improve the construction of sunshades and to provide for cotton-pickers and the like a simple and inexpensive one which will be adapted to be moved backward or forward to shield the pickers and which will be capable of adjustment to adapt itself to the width of the rows.

The invention consists in the construction and novel combination and arrangement of parts, as hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a portable shade constructed in accordance with this invention, the canopy being broken away to show the construction of the supporting devices. Fig. 2 is a longitudinal sectional view. Fig. 3 is a transverse sectional view.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a substantially rectangular canopy-supporting frame composed of end pieces 2, side rods 3, and longitudinal bars 4 and 5, located at the center of the frame and at points between the same and the sides thereof. The ends 2 have slightly-curved upper edges to arch the canopy or cover 6, which may be constructed of any suitable material. The rods 3 connect the terminals of the ends 2 of the frame, and the latter is supported near its center by a transverse bar 7, which is arched similar to the ends 2.

The frame and canopy are supported by a front caster-wheel 8 and rear side wheels 9, the latter being adjustable by means hereinafter described to vary the distance between them and adapt the shade to the width of the rows. The caster-wheel 8 is journaled between rearwardly-extending bars 10 and 11 on a transverse axle or bolt 12, and the said bars 10 and 11 extend from a vertical standard 13 and are arranged at opposite sides thereof. The upper portion 14 of the standard 13 is rounded and journaled in a bearing-opening of a block 15, which is centrally secured between a pair of front transverse bars or sections 16, that constitute a front axle. The bars or sections 16, which are secured to the longitudinal bars 4 and 5 and the side rods 3 similar to the ends 2, are provided with central enlargements, between which the block 15 is arranged.

A horizontal disk or plate 17 is secured to the lower face of the block at the lower edges of the enlargements 18, and a corresponding plate or disk 19 is mounted on the standard at the shoulder formed by the reduced or rounded upper portion to form a fifth-wheel. The caster-wheel, which is provided with a handle 20, is adapted to turn freely with the standard, so that the shade may be moved in any direction. The handle 20 extends forward from the standard and enables the shade to be conveniently drawn or pushed along in either direction.

The side wheels are journaled on vertical standards 21, provided at their upper ends with horizontal arms 22 and supported by transversely-disposed inclined braces 23. The arms, which extend inward from the upper ends of the standards 21, are arranged against the inner face of one of a pair of transverse bars or sections 24, which constitute a rear axle. The inclined braces 23 extend from the inner ends of the arms 22 to the standards at a point above the side wheels, and the arms 22 are perforated to receive fastening devices 25, which connect the rear transverse bars or sections 24, and have sleeves 26 disposed on them and interposed between the front one of the rear bars or sections 24 and the arms 22 for holding the said arms against the rear one of the bars or sections 24.

The bars or sections 24 are provided with perforations 27 for the reception of the fastening devices 25 and to permit the standards to be adjusted for varying the distance between the side wheels. The standards 21 are also supported by inclined rearwardly-extending braces 28, extending from the axles

or bearings of the side wheels, at the inner faces thereof, to the rear end piece 2 of the frame. The axles or journals of the side wheels connect the lower ends of the standards and the braces 28 and may consist of bolts or be constructed in any suitable manner.

A bag or receptacle 29 is swung from the top of the frame by means of suspending-links 30 and is situated in the space between the front and rear wheels. These links are provided at each end with hooks, preferably arranged on opposite sides of the link, and these hooks respectively engage the sides of the bag about its mouth and pass through suitable openings provided in the longitudinal bars 4 and the transverse bars 7 and 24. By this arrangement the links may be readily attached to and detached from either the bag or the frame, whereby an empty bag may be substituted for a filled one or for any other desired purpose, and, furthermore, the bag is loosely suspended to permit of the picker pushing or moving it aside in order that he may pass between the caster-wheel and the bag or whenever it becomes necessary to move it out of its normal position without the necessity of removing it entirely from the frame.

The invention has the following advantages: The portable sunshade, which is adapted for pickers of cotton, berries, and the like, is simple and comparatively inexpensive in construction and capable of ready adjustment to adapt it to the width of the rows. It may be readily moved backward or forward, and it is capable of supporting a bag or other receptacle for cotton or other substance picked.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

1. A device of the class described, comprising a frame, a canopy permanently mounted on the frame, a swiveled caster-wheel located near one end of the frame, and the side wheels located near the other end of the frame and adjustably connected with the same and adapted to be moved to and from each other to suit the width of rows without varying the size of the frame, substantially as described.

2. A device of the class described comprising a frame, a canopy or cover supported by the frame, side wheels supporting the rear portion of the frame, the front axle composed of transverse bars or sections, a block centrally secured between the transverse bars or sections of the front axle, a disk or plate arranged at the lower face of the block, a caster-wheel having a standard journaled at its upper portion in the bearing-opening of the block, and a disk or plate mounted on the standard and bearing against the said disk or plate to form a fifth-wheel, substantially as described.

3. A device of the class described comprising a frame having a canopy or cover, a rear axle mounted on the frame and composed of transverse bars or sections provided with perforations, standards located at opposite sides of the frame, fastening devices passing through perforations of the standards and the rear axle and adjustably connecting the parts, and side wheels journaled on the standards, substantially as described.

4. A device of the class described comprising a frame, a canopy or cover, the rear axle composed of transverse bars secured to the frame, standards located at opposite sides of the frame and provided at their upper ends with arms, transverse braces disposed at an inclination and connecting the inner ends of the arms with the central portions of the standards, fastening devices passing through the arms and the rear axle and adjustably connecting the parts, and spacing-sleeves disposed on the fastening devices and holding the arms against one of the transverse bars of the rear axle, substantially as described.

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

MATTHEW MARDOYOUR DOWNER.

Witnesses:
PHIL HOLCOMBE, Sr.,
E. C. JEFFERSON.