

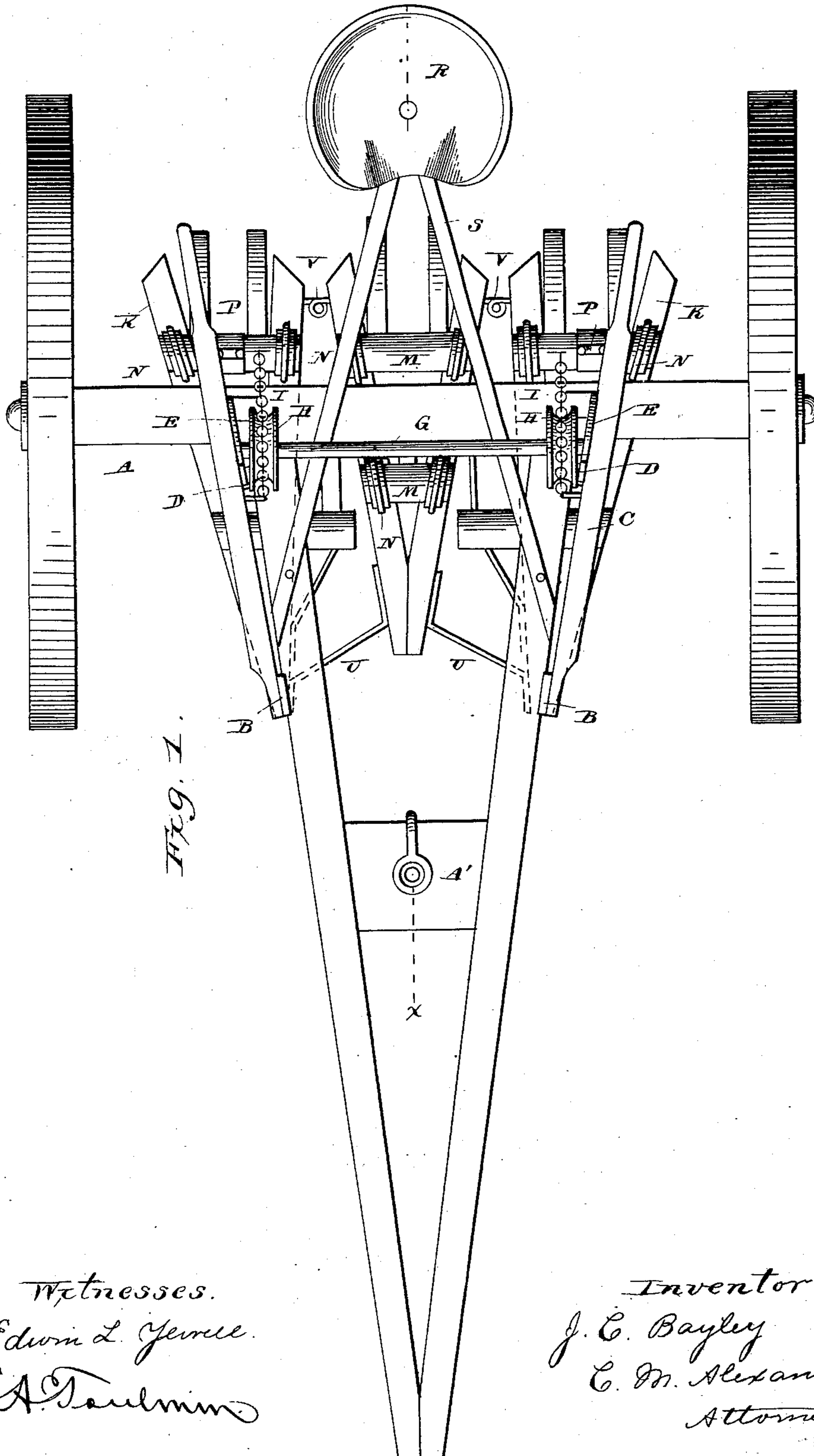
(No Model.)

2 Sheets—Sheet 1.

J. C. BAYLEY.
SULKY CULTIVATOR.

No. 281,957.

Patented July 24, 1883.



Witnesses.
Edwin L. Jewell.
H. A. Taulman.

Inventor.
J. C. Bayley
C. M. Alexander.
Attorney.

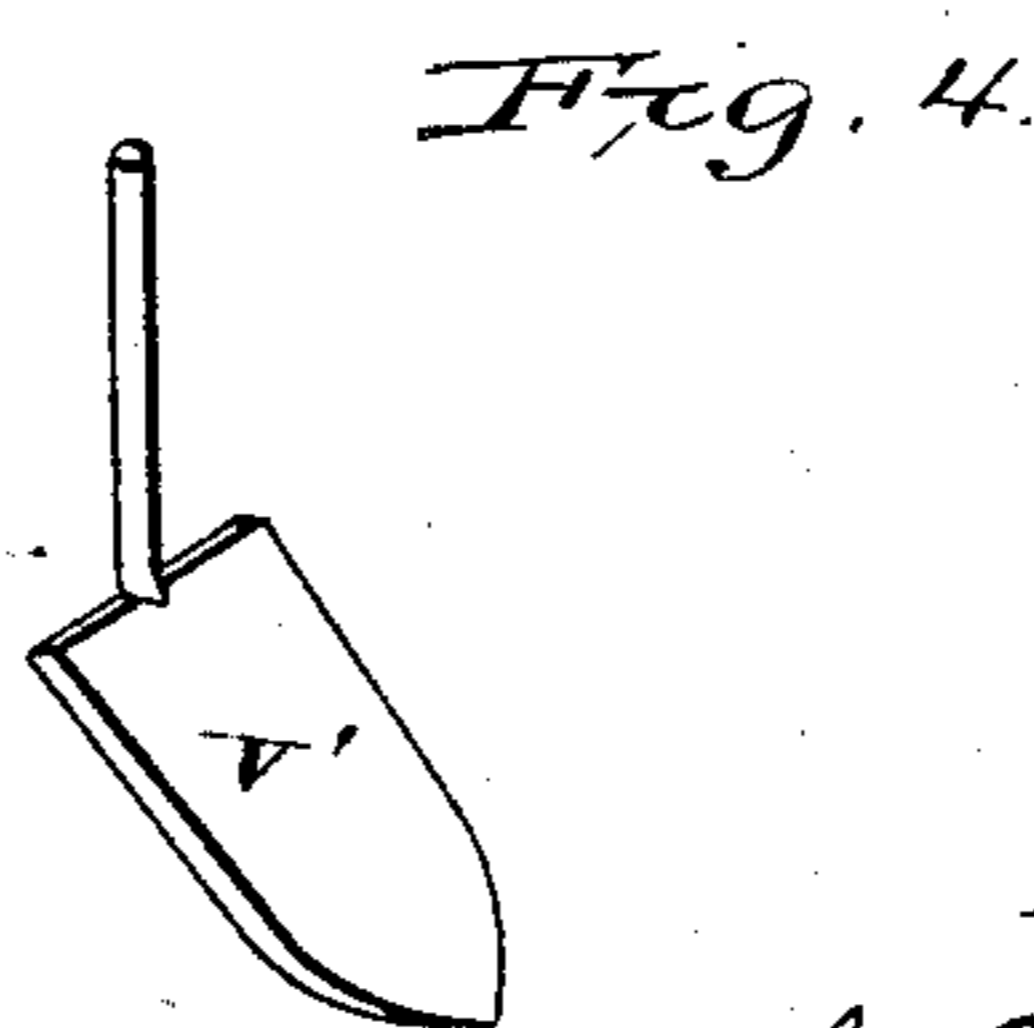
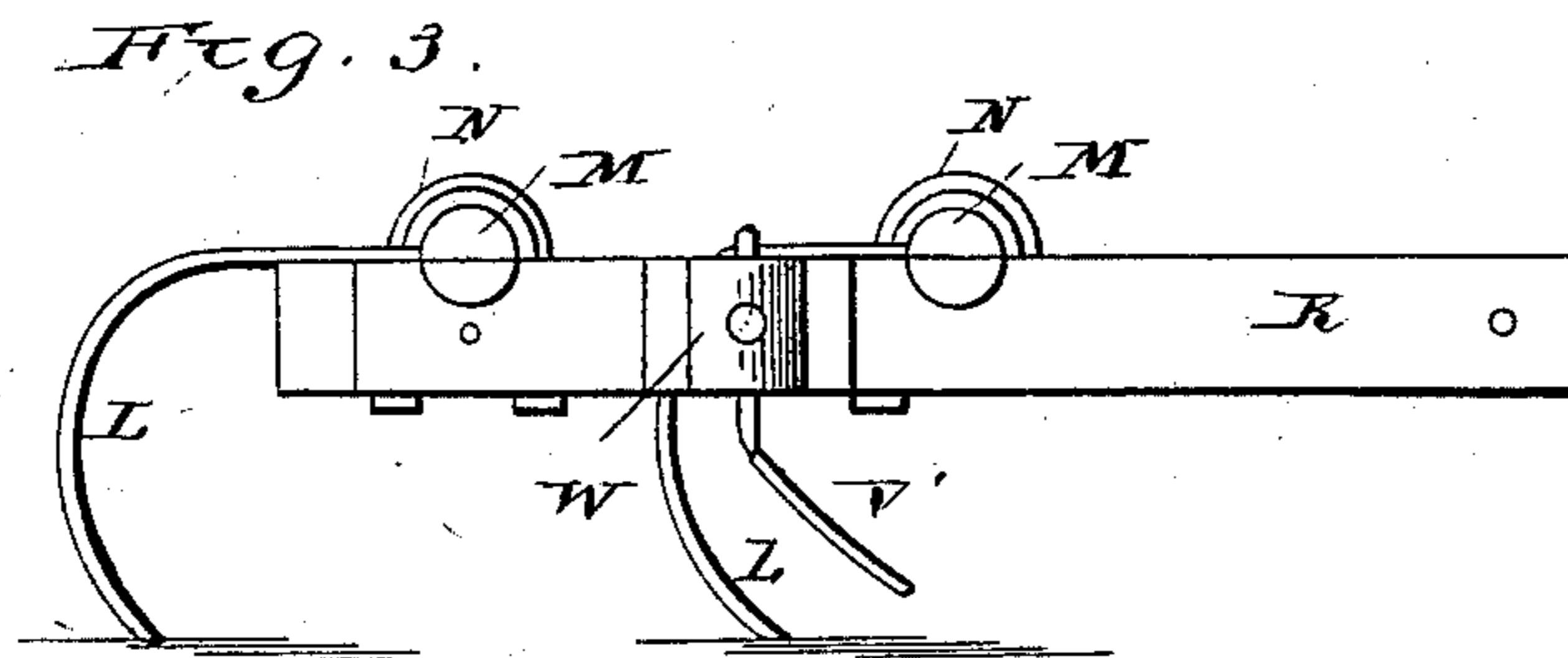
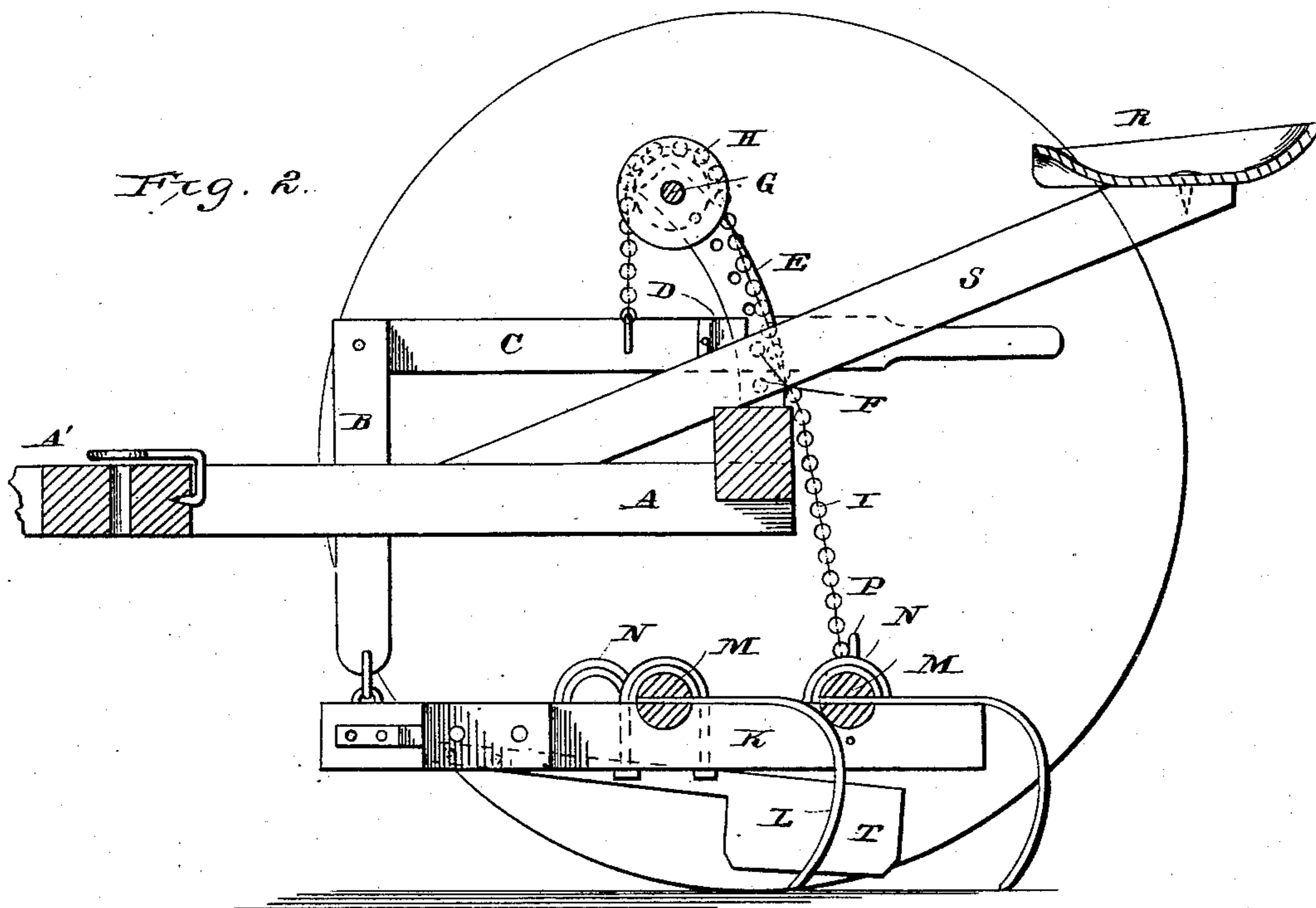
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2 Sheets—Sheet 2.

J. C. BAYLEY.
SULKY CULTIVATOR.

No. 281,957.

Patented July 24, 1883.



Witnesses.
Edmund L. Geisler
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Inventor.
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Attorney.

UNITED STATES PATENT OFFICE.

JOHN C. BAYLEY, OF BATTLE CREEK, MICHIGAN, ASSIGNOR OF ONE-HALF
TO ALVA DAVIS, OF SAME PLACE.

SULKY-CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 281,957, dated July 24, 1883.

Application filed September 25, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. BAYLEY, of Battle Creek, in the county of Calhoun, and in the State of Michigan, have invented certain
5 new and useful Improvements in Sulky-Cultivators; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference
10 marked thereon, making a part of this specification.

This invention has for its objects to provide a cultivator that may be employed for cultivating growing corn or other plants or as a
15 fallow-cultivator, as occasion requires; and these objects I attain by the means illustrated in the accompanying drawings, in which—

Figure 1 represents a top view of my improved cultivator; Fig. 2, a vertical sectional
20 view; Fig. 3, a detached view of one of the cultivator-frames, and Fig. 4 a detached view of one form of cultivator-tooth employed.

The letter A indicates the carriage of my improved cultivator, which consists of an axle
25 and suitable wheels and a tongue composed of two beams secured to the axle and connected at their forward ends. To the said beams are secured the uprights B, to the upper ends of which are fulcrumed the levers C, which are
30 provided with guides D, which embrace the segments E, attached to the axle. The segments are provided with apertures, with which the pins F on the levers are adapted to engage, in order to hold said levers in an adjusted position. The segments, at their upper ends, are
35 connected by a bar, G, upon which are mounted the grooved pulleys H. Over these pulleys pass the chains I, which at one end are connected to the before-mentioned levers and at the other
40 to the cultivator-frames K, which, at their forward ends, are connected loosely to the lower ends of the uprights B. The said frames consist of two beams joined at an angle at their forward ends, and carrying a series of spring
45 cultivator-teeth, L, attached to the cross-bars M, which are secured by clips N to the frames. Two of these frames are employed when the cultivator is employed to cultivate growing corn or other plants, one at each side of the culti-
50 vator, and the said frames are provided with stirrups P, for the feet of the driver, within

convenient reach when he occupies the seat R, which is mounted on a triangular frame, S, secured to the carriage. These permit the driver to guide the cultivator-frames in passing the rows of corn. To the frames, on their inner sides, are secured by means of flexible arms the shields T, as indicated. When the cultivator is employed as a fallow-cultivator or harrow, an intermediate cultivator-frame is
interposed between the before-mentioned frames, being secured to the uprights B by means of arms U and to the side frames by connecting-links V in such manner that the whole will form a harrow which will be drawn over
the ground by the carriage. In some instances, when required, the spring-teeth may be removed and the teeth V', as illustrated in Fig. 4, substituted, the teeth in the latter case being secured to the sides of the frame by means
of clips W. Between the beams forming the tongue of the cultivator is located a cross-piece, A', which is provided with an aperture for the insertion of a bolt, by means of which a cross-
bar to which eveners are attached may be secured, the ordinary leather tugs and trace-chains being attached to the ends of the whiffletrees, as usual.

The cross-beams M, before mentioned, consist each of two semicircular beams having the
spring-teeth inserted between them, the said teeth being clamped between the beams and the beams clamped to the cultivator-frames by means of the clips N, as above described.

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

The combination, with a cultivator-frame, of the divergent harrow-beams, secured together at their forward ends, the divided cross-bars, having means for clamping them to the beams, and the flat curved spring-teeth, interposed and secured between the parts of the cross-bars, substantially as shown and described.

In testimony whereof I affix my signature, in presence of two witnesses, this 13th day of May, 1882.

JOHN C. BAYLEY.

Witnesses:

MARTIN METCALF,
HENRY H. HUBBARD.