

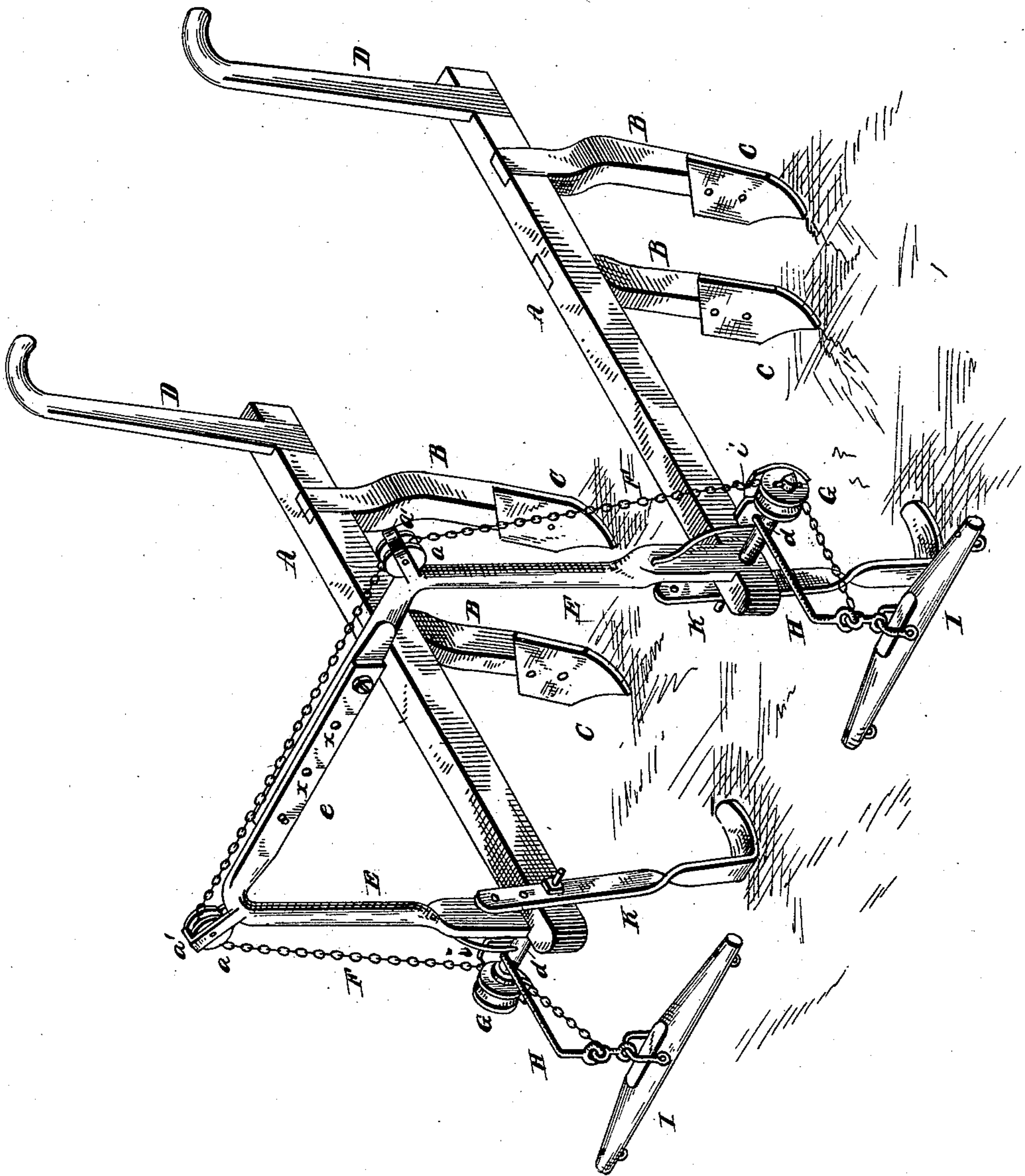
(No Model.)

M. A. TRAVIS.

CULTIVATOR.

No. 297,035.

Patented Apr. 15, 1884.



WITNESSES

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UNITED STATES PATENT OFFICE.

MARTIN A. TRAVIS, OF HAMBURG, IOWA.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 297,035, dated April 15, 1884.

Application filed November 28, 1883. (No model.)

To all whom it may concern:

Be it known that I, MARTIN A. TRAVIS, a citizen of the United States, residing at Hamburg, in the county of Fremont and State of Iowa, have invented certain new and useful Improvements in Cultivators, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to cultivators which may be used for general purposes, but which are more particularly adapted to the cultivation of corn; and it has for its object to provide a rigid frame for connecting two beams which shall be high enough to ride over the growing stalks just before it is "laid by" without damaging the same.

In the annexed drawing, which is a perspective of my invention, and which makes a part of this specification, A A represent two straight beams.

B B represent shanks, which carry the bales C C, and which are rigidly secured to the beams A.

D D represent the handles, connected to the beams.

K K represent bars adjustably connected to the beams near their front ends, which have their lower ends turned at right angles to the bars, to form shoes for supporting the forward ends of the beams.

E E represent standards made of metal, which have their lower ends rigidly secured to the beams at any suitable point between their ends. These standards are bent at right angles and inward near their centers and overlapping each other. The overlapping parts *e e* are provided with a series of holes, *x*, through which bolts pass to secure the two parts firmly together. By this arrangement the beams may be brought closer together or separated, as the nature of the case may demand. At the cor-

ners of the standards frames *a' a'* are secured, which carry the pulleys *a a*. Over these pulleys is passed a chain or rope, F.

G G are pulleys upon short shafts *d d*, which pass through the beams near their forward ends and at right angles to them. The chain F passes under these pulleys, and each of its ends is secured to a whiffletree.

H H represent rods, which fasten at their forward ends to the whiffletree through the eyes of the same links that the chains do. The rear ends of these rods pass back over the short shafts, and through holes in plates *i i*. These rods serve partly as guides and partly as supports for the whiffletrees. The chain passing freely over the pulleys allows the whiffletrees to act as though they were a part of a double-tree.

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

The combination, in a cultivator, of the standards E E, adjustably secured together, and the beams A A and their attachments, the pulleys *a a*, the chain F, passing over the same, and the movable bars H H, passing through apertures in the plates *i i*, the bars having the ends of the chains attached to them, and the whiffletrees I, the bars by sliding back and forth serving to take up the slack of the chain as the standards are adjusted, and the chain permitting the whiffletrees to act together as a double-tree, substantially as specified.

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

MARTIN A. TRAVIS.

Witnesses:

JNO. B. CHRISTIAN,
T. I. HALSTEAD.