

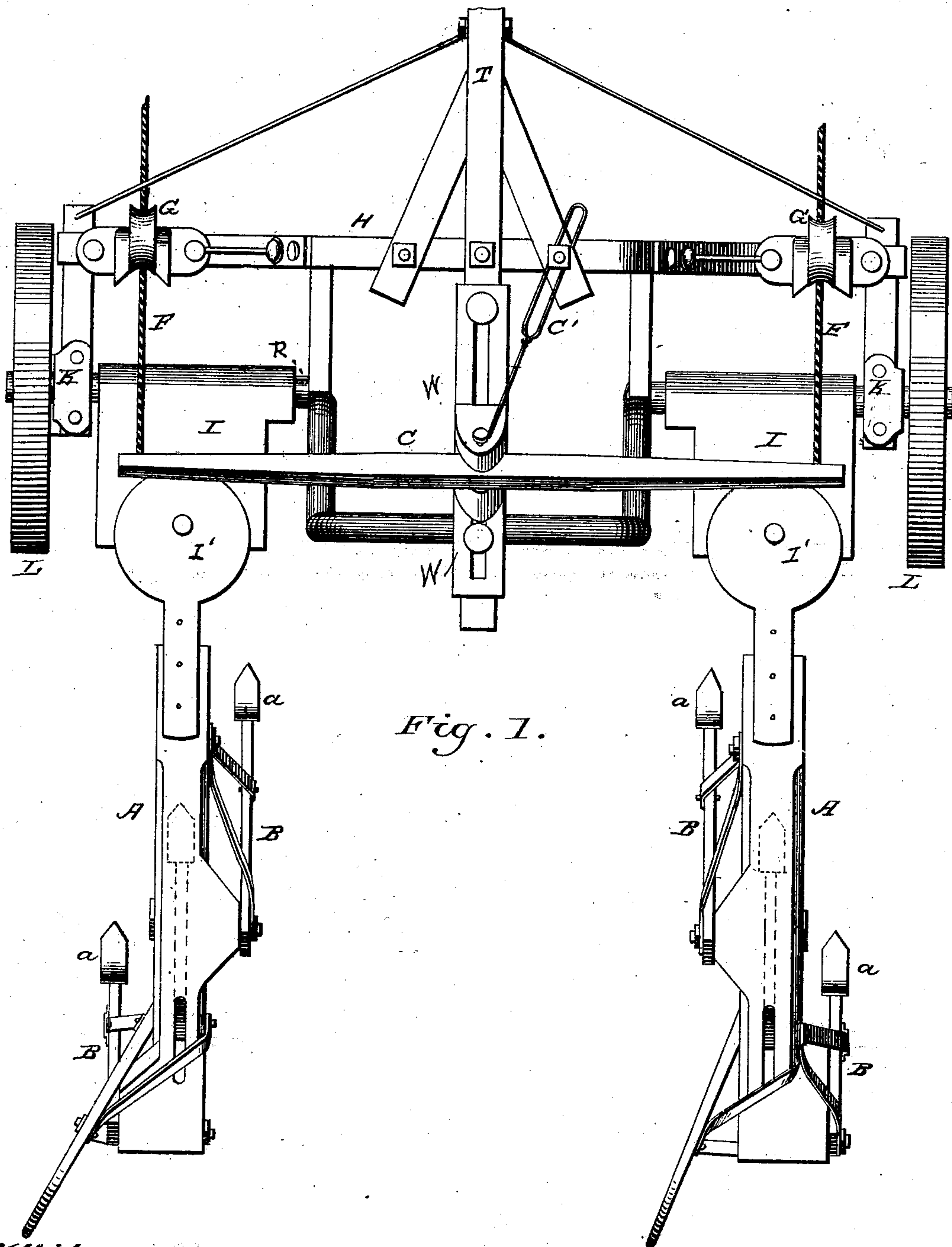
(No Model.)

2 Sheets—Sheet 1.

G. F. SKANK.  
CULTIVATOR.

No. 272.490.

Patented Feb. 20, 1883.



Witnesses:

Robert S. Schenck  
H. A. Danner

Inventor:

George F. Skank.

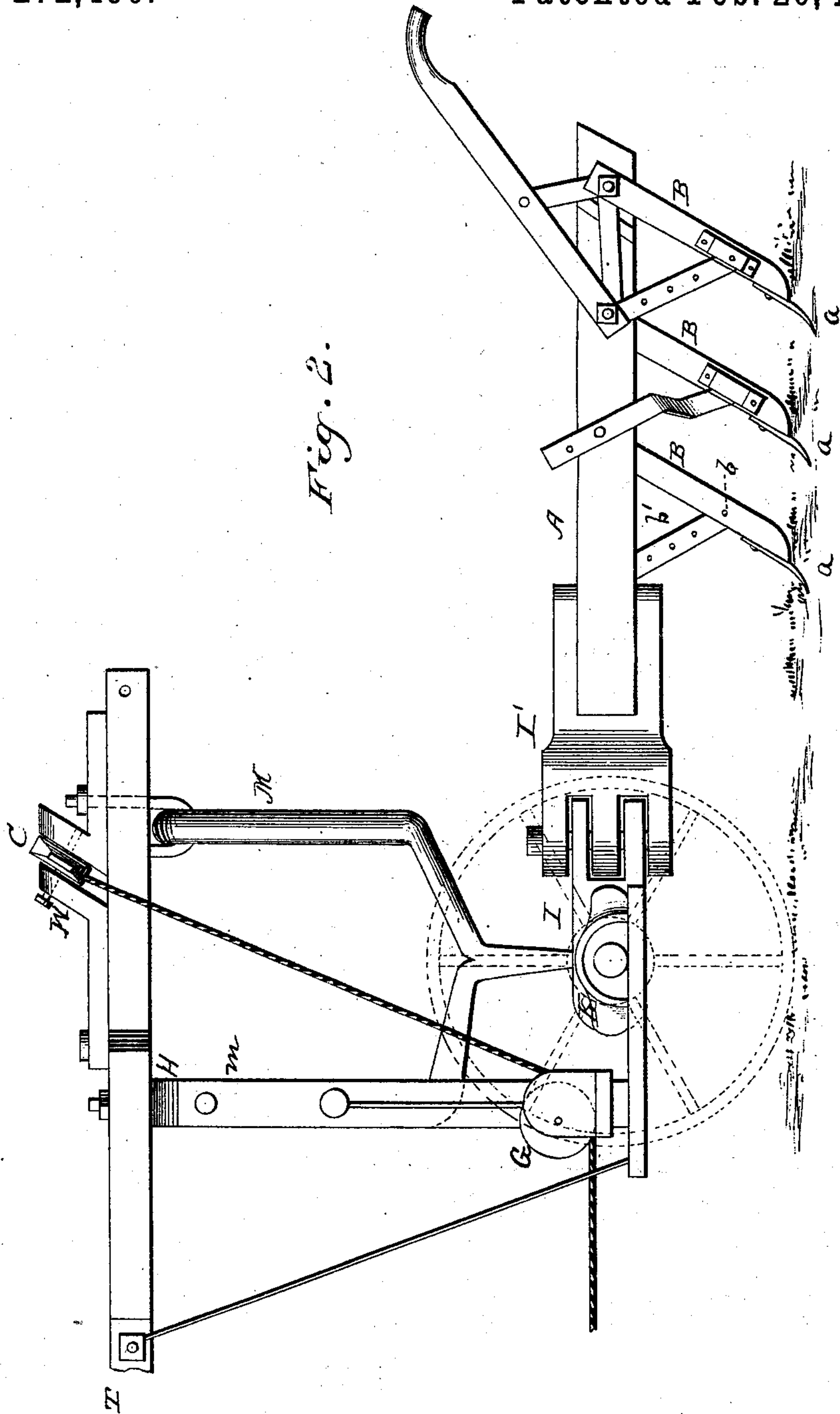
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# UNITED STATES PATENT OFFICE.

GEORGE F. SKANK, OF LINCOLN TOWNSHIP, MONTGOMERY COUNTY, IOWA.

## CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 272,490, dated February 20, 1883.

Application filed March 9, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE F. SKANK, a citizen of the United States, residing in Lincoln township, county of Montgomery, and State of Iowa, have invented a new and useful Improvement in Cultivators, of which the following is a specification.

My invention consists in improvements in cultivators, first, in the gangs, being especially adapted to the cultivation of listed corn, being so arranged that they can be changed at the will of the operator in regard to depth and distance apart by simply drawing a pin in the casting on the end of the beam, and raising or lowering them to regulate the depth and putting them closer together or farther apart, as may be desired. Each gang or beam A has three standards, B B B, and three shovels, *a a a*, so arranged by holes *b* in the posts that they may be raised or lowered to suit the rows of corn, and the shovels smaller than those in ordinary use, the object being to prevent the covering of the corn while small, listed corn being planted in deep furrows.

In the drawings, Figure 1 is a top view, showing the shape of coupling, the castings or slides W, which hold the evener C, and slotted brace C', which prevents the slides from pulling sidewise, the draft-chains F, running from ends of evener C (which works up and down) and passing under pulleys G, which are fastened to the front part of the frame. Fig. 2 is a side view, showing shape of frame, couplings, and gangs.

The frame H of this cultivator is made of solid wrought-iron, with double arch turned in square corners and welded together at the bottom, and turned out to form the axle, on which is placed the coupling-castings I, sand-cap K, and wheel L. The object of the square arch is to have a draft-pulley far enough in front of the axle to take the draft off the necks of the horses.

To the outsides of the front arch is bolted an iron, M, extending down even with the axle, then turning a square corner out, and connecting with an iron strap which extends forward from the sand-cap K, immediately outside of the coupling-casting I. Upon the front iron are bolted pulleys G, under which the draft-chains run.

The tongue T is bolted on top of the arches H M, and upon top of the tongue are placed castings W, to hold the evener C, so as to be

moved forward or backward to assist in adjusting the weight of the tongue. The evener is swung in the castings on the top of the tongue, and works nearly perpendicularly, and the chains run from the ends of the evener C, under pulleys heretofore described, and are attached to the whiffletrees for the purpose of preventing side draft and to compel each horse to do his share of the work.

The couplings I are made of cast-iron, and work upon the axle R, and have a deep groove to receive one of the ears of the clevis I', which is attached to the end of the beam A. These ears are of the same thickness as the groove in the couplings I, and their object is to permit the raising or lowering of the beam A as one or other of the ears is placed in the groove. The ends of the ears are rounded, so that the gangs can have a lateral movement. Thus a firm knuckle is made and rocking is prevented, while the beams are easily moved, either laterally or vertically. The object of the ears is to lower or raise the beams and gangs of plows to regulate the depth of plowing. The clevis I' has three holes in its rear end to receive a pin passing through the front end of the beam, for the purpose of increasing the distance from the frame, and the coupling I also has three openings, *i'*, (only one shown,) to permit the gangs to approach or recede from each other. The beam is made of wood or iron, having a mortise or opening to admit the middle one of the three standards. The standards are of wrought-iron, and are made adjustable by means of holes *b'* in the braces, to raise or lower them, according to the depth of the furrow in which the corn is planted, the inside standard being the longest. The braces are adjustable by means of the holes *b'*. The shovels are small and twisted, and fastened to the standards by means of bolts.

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

In a cultivator, the combination of the adjustable evener C, pivoted between the adjustable slotted castings W, slotted brace C', arch or frame H, chains F, and pulleys G, all constructed as herein shown and described.

GEORGE F. SKANK.

Witnesses:

ROBERT S. SCHENCK,  
H. A. DARNER.