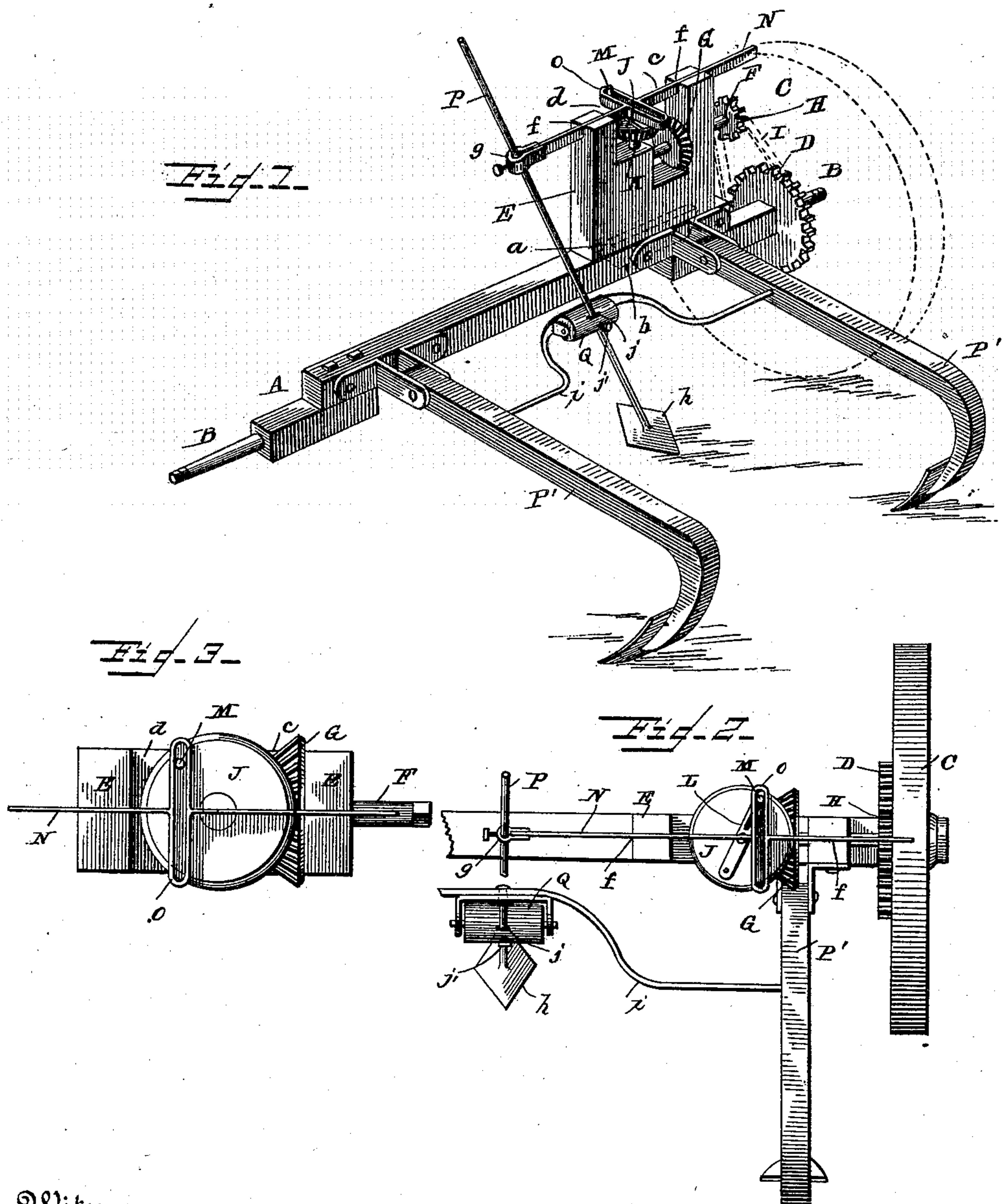


(No Model.)

J. T. JORDAN.
COTTON BLOCKER.

No. 370,875.

Patented Oct. 4, 1887.



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES THOMAS JORDAN, OF RUPEE, TEXAS.

COTTON-BLOCKER.

SPECIFICATION forming part of Letters Patent No. 370,875, dated October 4, 1887.

Application filed March 1, 1887. Serial No. 229,327. (No model.)

To all whom it may concern:

Be it known that I, JAMES THOMAS JORDAN, a citizen of the United States, residing at Rupee, in the county of Falls and State of Texas, have invented certain new and useful Improvements in Cotton-Blockers; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to cotton-blockers designed to be applied to cultivators; and the object of the invention is to provide a blocker and mechanism for operating it which may be applied to cultivators of any construction, and with but little trouble, and to provide a hoe-blade which will clear itself of dirt and weeds and make a regular and steady stroke.

With the above objects in view the invention consists in the features of construction and combinations of parts, hereinafter fully described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a portion of a cultivator, illustrating the application of my invention thereto. Fig. 2 is a plan view, and Fig. 3 is a detail view of a modification.

Corresponding parts in all the figures are denoted by the same letters of reference.

Referring to the drawings, A represents the axle of a cultivator, B the spindles of the axles, and C the carrying-wheels. One of the carrying-wheels is provided with a sprocket-wheel, D, as shown. The axle A of the cultivator is provided near one end with a mortise, *a*, to receive a tongue or tenon, *b*, which projects downwardly from a gear-supporting frame, E. This frame E is provided with a vertical slot, *c*, and horizontal recess *d*.

F represents a shaft, which extends through the vertical slot *c*, and on said shaft, within the vertical slot, is mounted a bevel gear-wheel, G. The end of this shaft extends a considerable distance beyond the gear-supporting frame, and has mounted near its outer end a sprocket-wheel, H, of less diameter than the wheel D, and connecting said wheels D and H is a sprocket-chain, I, so that upon forward movement of the cultivator motion is imparted to the bevel gear-wheel G.

J represents a bevel-gear, which is mounted

on the upper end of a shaft, K, having bearing in the gear-supporting frame, said gear J meshing with the gear G, as shown. The upper end of the shaft K is extended beyond the gear-wheel, and upon said upper end is mounted a slotted arm, L, in which is adjustably secured a pin, M. The upper ends of the gear-supporting frame are provided with slots *f*, in which is loosely fitted a rod or bar, N, which has a slotted arm, O, extending from each side thereof and in line with each other, the slots of said arms also being in line and adapted to receive the pin M, which projects from the arm L. By making the pin adjustable in the slotted arm it will be seen that the length of the stroke or movement of the bar or rod N may be regulated.

On the inner end of the bar or rod N is adjustably secured a collar, *g*, through which passes the end of a rod, P, carrying at its lower end a hoe, *h*.

P' represents the cultivator bars or beams, and said beams are connected by a curved strip, *i*, on which is mounted pivotally midway the ends thereof a spool, Q, which has a slot, *j*, through which passes the rod P, and which is held firmly and securely in said slot at any desired adjustment by means of a set-screw, *j'*, as shown.

The operation of the device as thus described is as follows: Upon the cultivator being moved forward the carrying-wheels revolve and the gear-wheel D is rotated, thus imparting motion to the shaft F through the gear H and the sprocket-chain connecting said gear-wheels. The gear G, meshing with the gear J, rotates the latter and causes the pin secured to the slotted arm to traverse the slot in the arms of the rod N, thus causing said bar to be reciprocated, and, through its connection with the rod carrying the hoe, to operate the latter. By moving the pin in the slotted arm to which it is secured the length of the stroke of the rod N may be regulated.

The device above described is simple in its construction, cheap to manufacture, strong and durable, and effective in its operation.

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

1. The combination, with the beams of the

cultivator, of a transverse connecting strip or bar carrying a rod having the hoe at its lower end, a horizontal reciprocating bar connected to the upper portion of said rod and provided
5 with the slotted arms, and gear mechanism embodying a gear-wheel having a projecting pin engaging said slotted arms, substantially as and for the purpose set forth.

2. The combination, with the frame of a
10 cultivator embodying the cultivator-beams and the axle carrying a gear-supporting frame, E, of a transverse strip or bar connecting said beams, a rod carrying the hoe at its lower end and pivotally connected with the transverse
15 bar, a horizontal reciprocating bar mounted in the frame E, and provided with the centrally-located slotted arms and connected at one end with the upper portion of said rod, a horizontal bevel-gear mounted upon a vertical
20 shaft and carrying a projecting pin engaging the slotted arms, a vertical bevel-gear mounted upon a horizontal shaft, F, the bevel-gears being mounted within the frame E, and operating mechanism connected with the shaft F,
25 substantially as and for the purpose set forth.

3. The combination of the axle carrying a gear-supporting frame, E, the cultivator-beams, a transverse strip or bar, a spool pivotally mounted thereon, a rod carried by said
30 spool and having the hoe at its lower end, a horizontal reciprocating bar having the centrally-located slotted arms and provided with a collar at one end, the bevel-gear mounted in the frame E and carrying a projecting pin engaging
35 the slotted arms, and mechanism for operating the gears, substantially as and for the purpose set forth.

4. The combination, with the cultivator-beams, of a connecting strip or bar, a spool
40 pivotally connected therewith, a rod mounted

in the spool and carrying a hoe, h, at its lower end, a horizontal reciprocating bar carrying a collar at one end, through which passes the rod, and mechanism for reciprocating said bar, substantially as and for the purpose set forth. 45

5. The combination, with a pivotally-mounted rod carrying a hoe at its lower end, of a horizontal reciprocating bar connected at one end with the upper portion of said rod and provided with the centrally-located slotted
50 arms projecting in opposite directions, bevel-gear carrying a pin engaging said slotted arms, and a frame carrying the bevel-gear and reciprocating bar, substantially as and for the purpose set forth. 55

6. The combination, with the horizontal reciprocating bar connected at one end with a rod carrying the hoe and provided with the centrally-located slotted arms, of a horizontal
60 bevel-gear carrying upon its upper face a slotted arm, a pin adjustable in said slotted arm and engaging the arms of the reciprocating bar, and mechanism for rotating the bevel-gear, substantially as and for the purpose set forth.

7. The combination, with a cultivator, of a
65 frame secured thereto, gear-wheels mounted in said frame, means, such as described, for operating the gear-wheels, a slotted arm secured to one of said gears, a pin adjustably secured in said slot, a bar having slotted arms
70 in which the pin works, a rod secured to said bar and carrying a hoe, and a curved strip carrying a spool through which the rod passes, as set forth.

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

JAMES THOMAS JORDAN.

Witnesses:

W. D. HERRING,
D. A. KELLEY.