

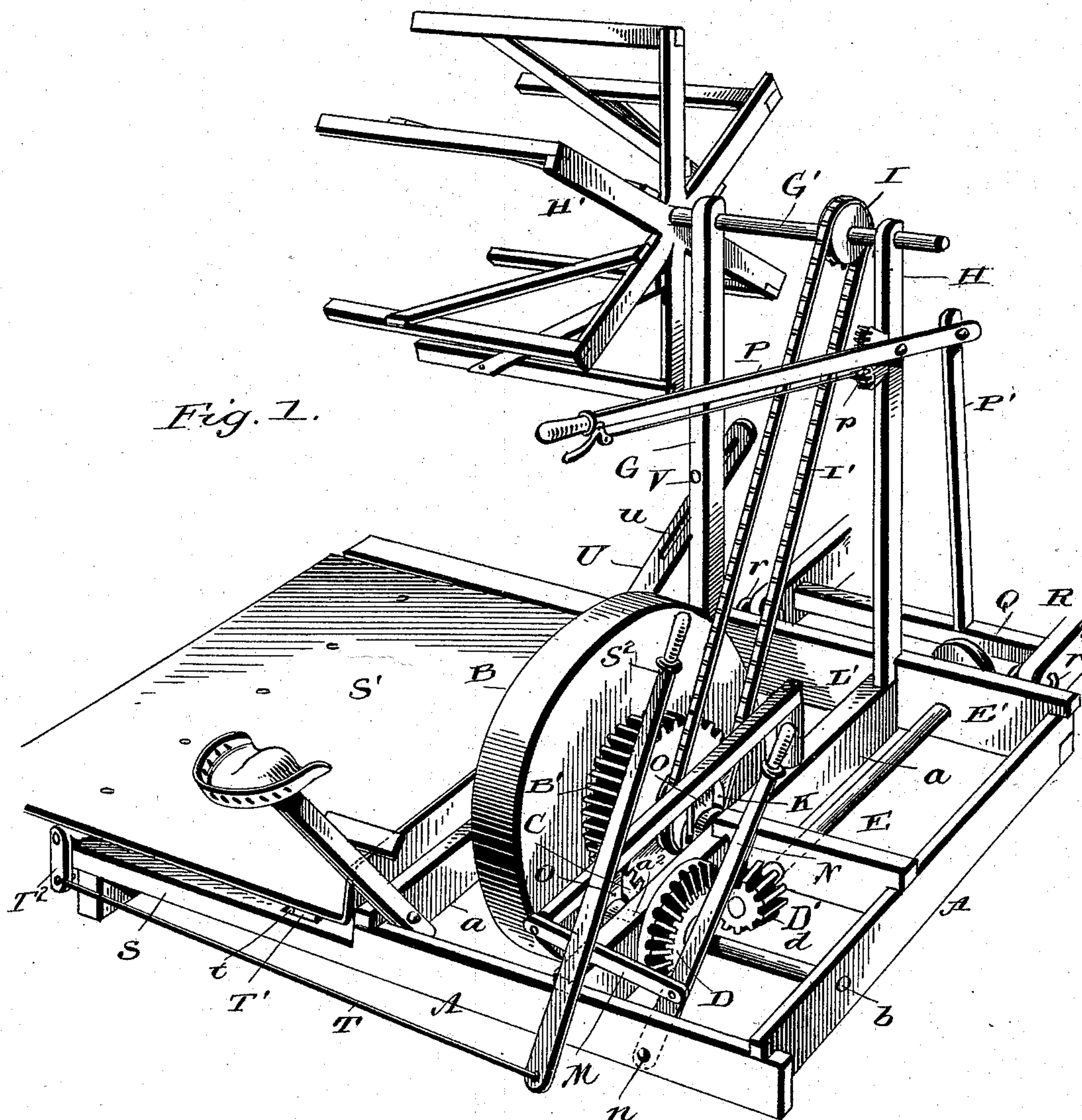
(No Model.)

2 Sheets—Sheet 1.

J. STEWART, Jr.
CORN CUTTER AND DROPPER.

No. 528,041.

Patented Oct. 23, 1894.



Witnesses:

L. C. Mills.
A. L. Hough

Inventor,

Inventor:
John Stewart jr.,
By Franklin H. Hong /
atty.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 2.

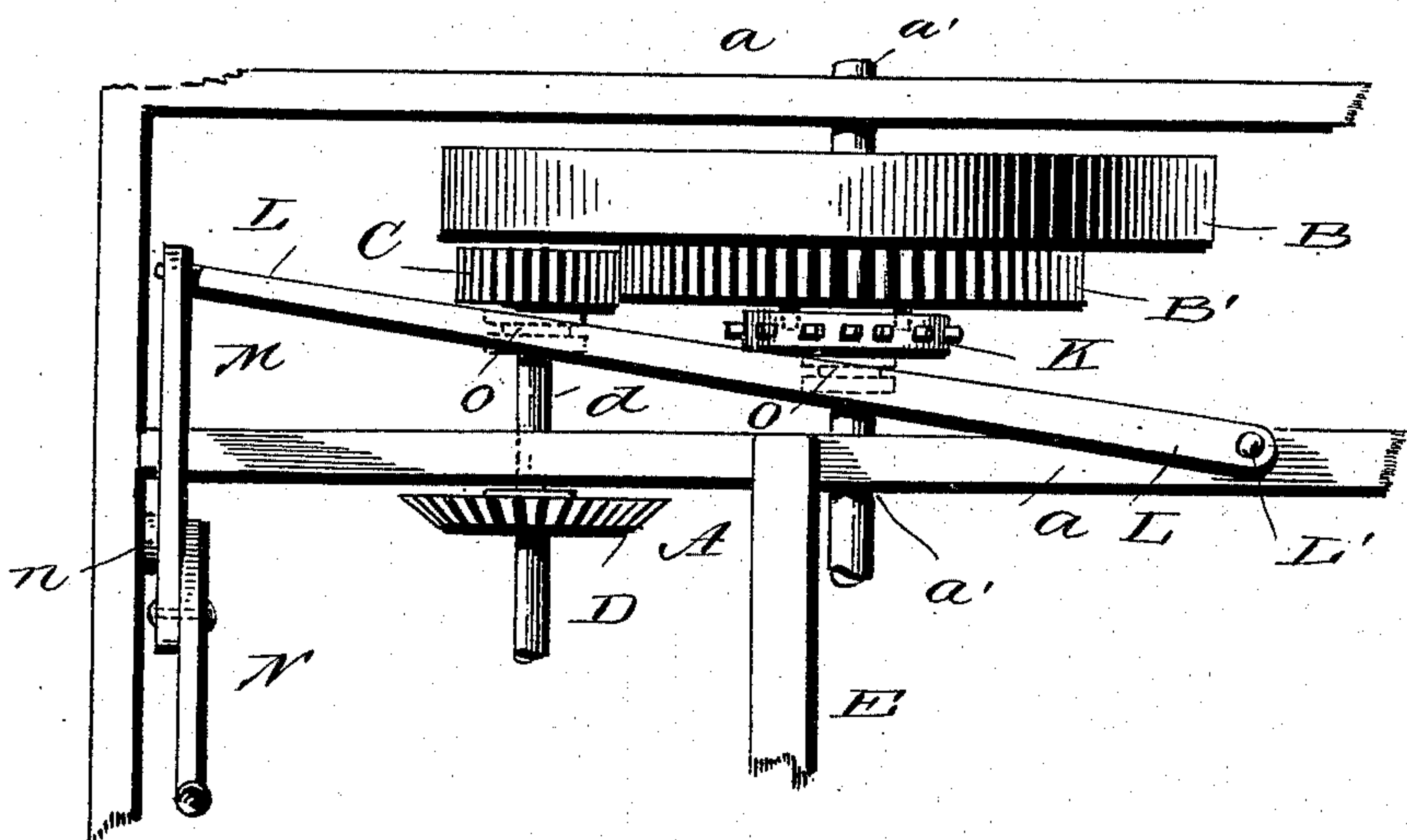
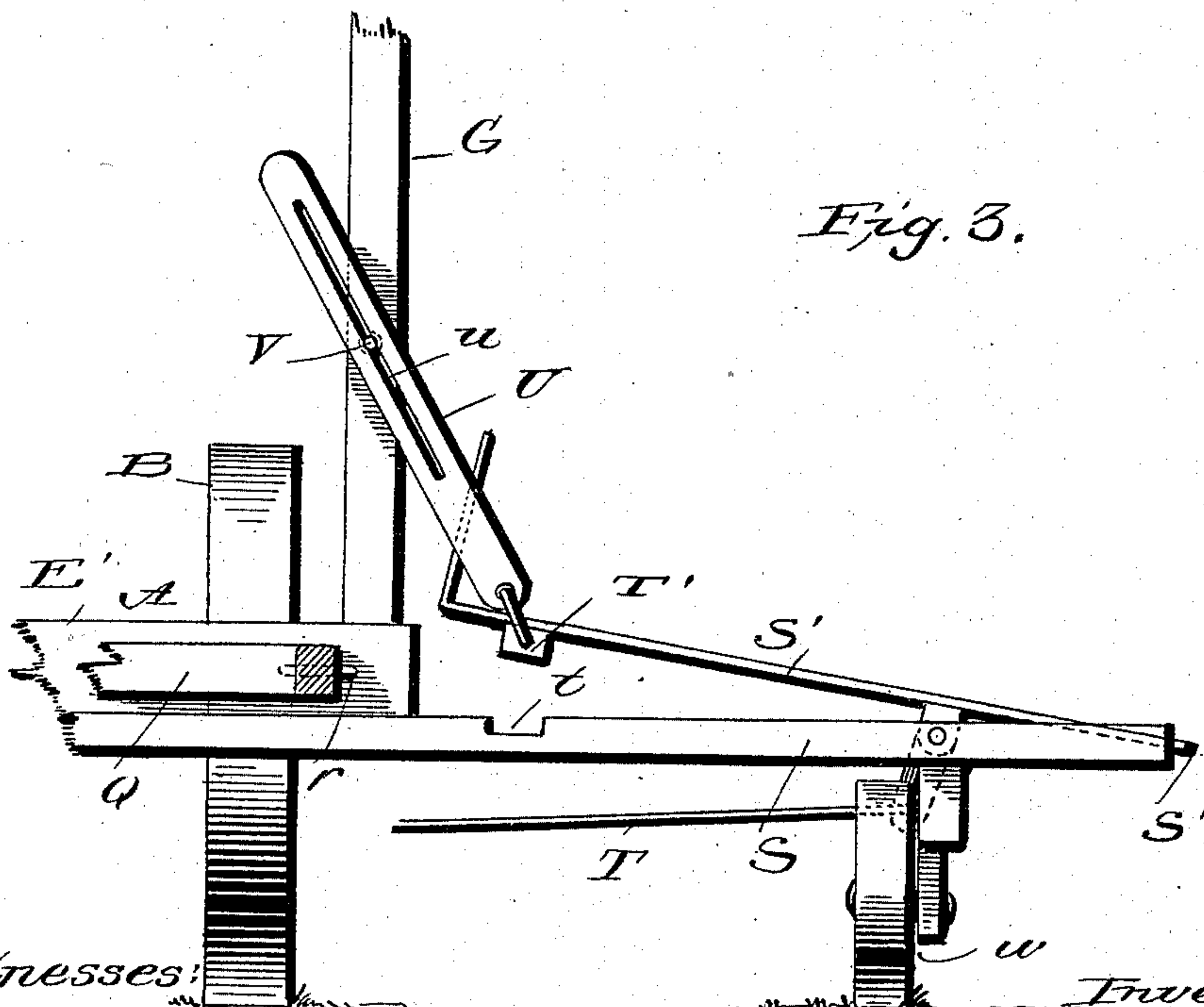


Fig. 3.



Witnesses:

L. C. Will
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Inventor:

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UNITED STATES PATENT OFFICE.

JOHN STEWART, JR., OF LITCHFIELD, NEBRASKA.

CORN CUTTER AND DROPPER.

SPECIFICATION forming part of Letters Patent No. 528,041, dated October 23, 1894.

Application filed May 1, 1894. Serial No. 509,695. (No model.)

To all whom it may concern:

Be it known that I, JOHN STEWART, Jr., a citizen of the United States, residing at Litchfield, in the county of Sherman and State of Nebraska, have invented certain new and useful Improvements in Corn Cutters and Drop-
5 pers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

15 This invention relates to certain new and useful improvements in corn cutters and drop-
pers.

The improvement consists in the provision of a slotted guard and stay secured to the
20 tilting platform the slotted portion slidingly held to the upright supporting the reel.

The invention consists further in the novel construction, combination and adaptation of the parts as will be hereinafter more fully de-
25 scribed and then specifically defined in the appended claim.

I clearly illustrate my invention in the accompanying drawings, which with the letters of reference marked thereon form a part of
30 this specification, and in which drawings similar letters of reference indicate like parts throughout the several views, and in which drawings—

Figure 1, is a perspective view of my corn
35 cutter and dropper. Fig. 2, is a detail view of the mechanism for putting into and out of gear the cutting knives and the operation of the reel. Fig. 3, is a detail view of the guard and stay to the tilting platform.

40 Reference now being had to the details of the drawings by letter, A represents the main frame work which supports the harvester.

To the main horizontal parallel beams a , a , is journaled a shaft a' carrying the main
45 driving wheel B, which has a cogged wheel B' fixedly held thereto. On a shaft d journaled to the beams at a^2 and b , is a pinion C sliding on said shaft provided with a grooved collar whereby the pinion may be thrown
50 into and out of gear with the cogged wheel held to the main driving wheels.

D is a beveled gear wheel keyed to the

shaft d , which carries the pinion C, and the said beveled wheel meshes with the geared wheel D', also beveled, and the shaft on which
55 the wheel D' is keyed, is journaled in the cross beams E and E', and is designed to operate the cutting knives, not shown, which may be of any well known construction.

Supported in suitable bearings at the up- 60
per ends of the upright beams G, H, is the wheel shaft G', with reel H'.

I is a sprocket wheel journaled on the shaft G', which is connected with chain I' to the sprocket wheel K, on the main driving shaft, 65
and by means of a clutch mechanism this wheel K may be thrown into or out of gear with the said main driving shaft.

For simultaneously operating the clutch mechanism for throwing into or out of gear 70
the wheel communicating motion to the reel shaft, and the wheel turning the cutting mechanism, I provide the horizontal lever L, pivoted at one end at L', its other end having a link M with lever connection N, which lever 75
is pivoted to a beam at n .

To the under side of the horizontal lever L, are seated the depending arms O, O, adapted to engage, each with the flanges of the sprocket wheel and pinion. This lever 80
for controlling the geared apparatus, extends up within easy reach of the operator or driver of the harvester.

Pivoted to the upright beam H is the lever P, having pivotal connection with the arm P' 85
connected to the cross beam Q, secured to the shafts R which are pivoted to the main frame at r , r , and on the upright beam H is the notched segment into the serrations of which a lug p , carried by the lever P is adapted 90
to engage to regulate the height of the cutter bar when the free ends of the shafts are held in a stationary position.

To the side beam S, is pivoted the tilting platform S' for dropping the corn to the 95
ground, by means of the hand lever S² connected by means of the rod T with the projection T² of the shaft carrying the platform.

T' is a bar secured to the under side of the platform, and is adapted to fit into a recess t 100
in the frame of the harvester. To the projecting end of this rod is pivoted the slotted member U, having the slot u .

V is a lug fastened to the upright beam G.

The said lug is designed to work in the slot *u* thus serving to guide the platform, and the said slotted member serving also to prevent stalks of corn from dropping behind the platform when the same is tilted.

The side beam underneath the platform has a supporting wheel *w*.

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

The combination with the main frame work having a recess *t*, of a tilting board *S'* pro-

vided with a cross-bar *T'* adapted to engage in said recess, and a slotted guide *U* connected to the end of the said cross-bar, for preventing the corn from falling against the driving wheel when the platform is in a horizontal position, substantially as described. 15

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

JOHN STEWART, JR.

Witnesses:

ENOCH W. GOWIN,

JOHN MINSHALL.