

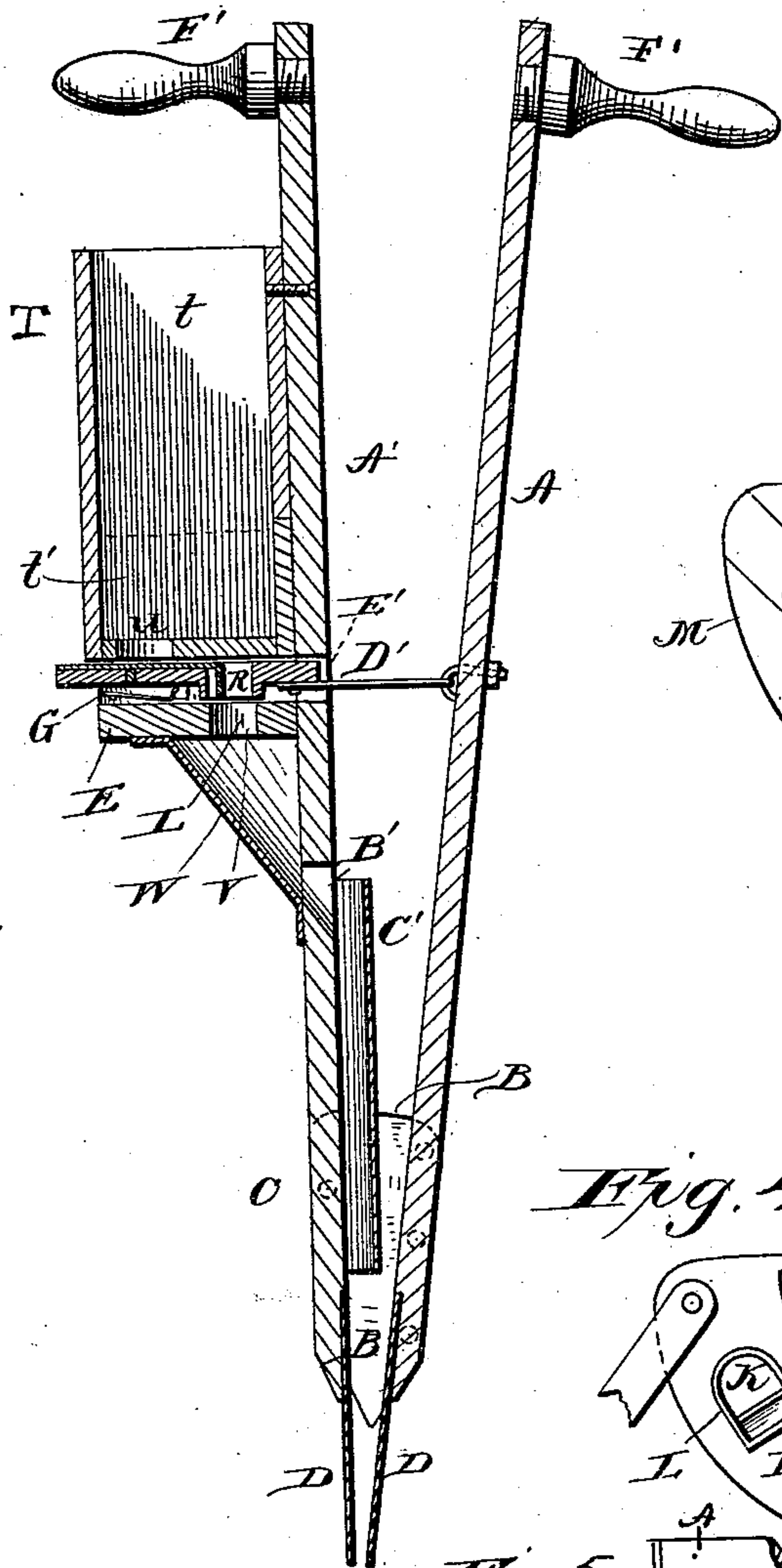
(Model.)

G. L. HUDSON.  
Hand Planter.

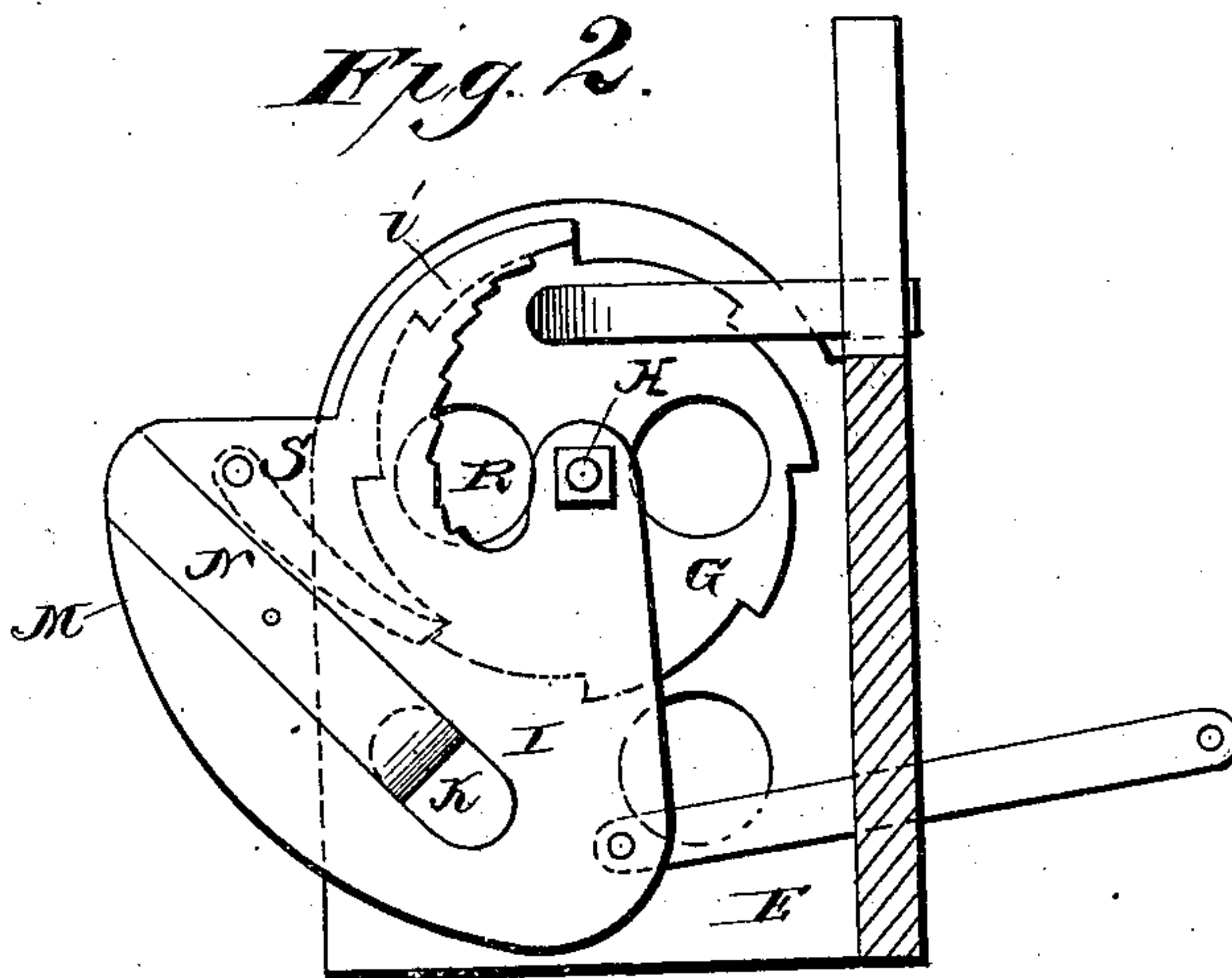
No. 234,984.

Patented Nov. 30, 1880.

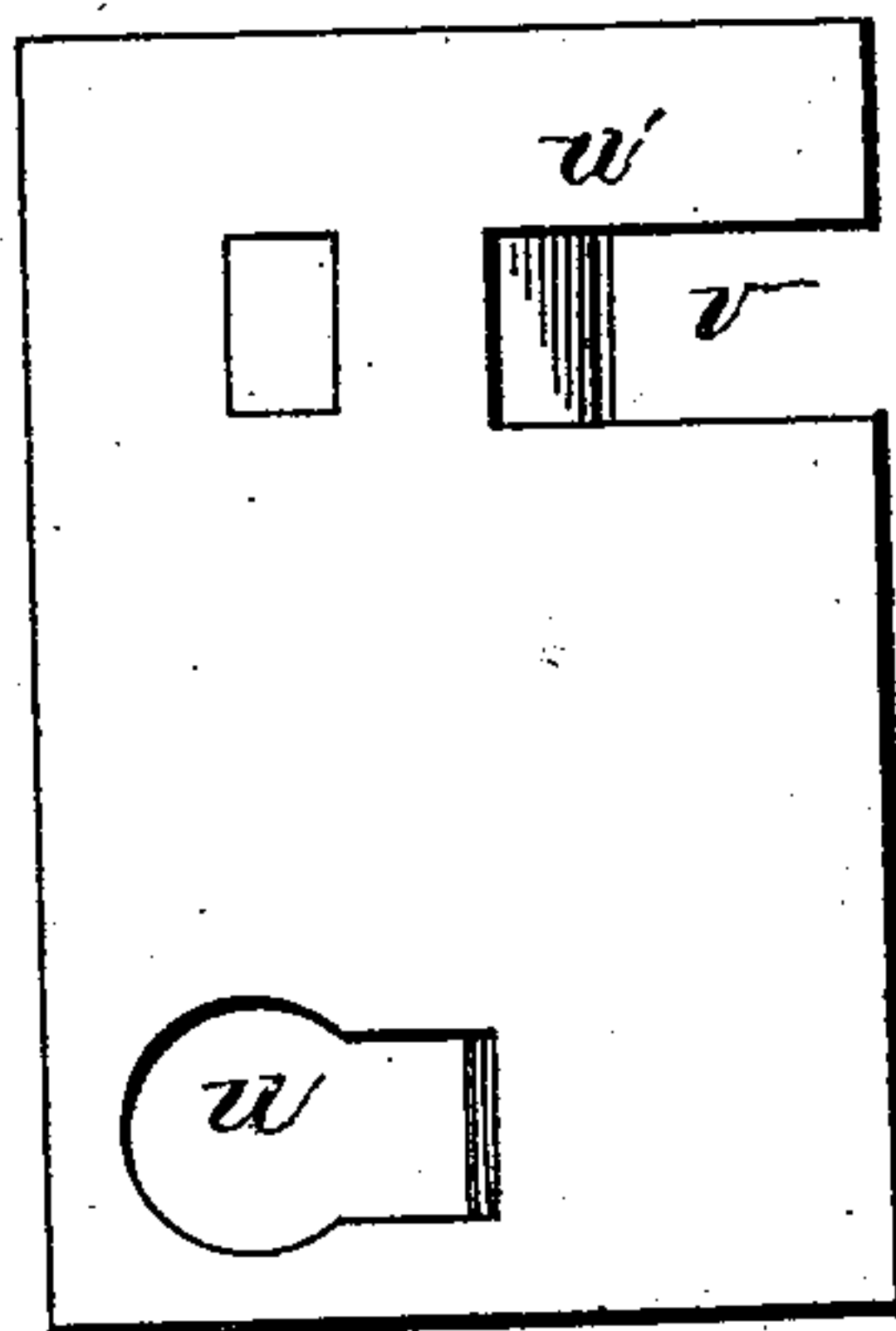
*Fig. 1.*



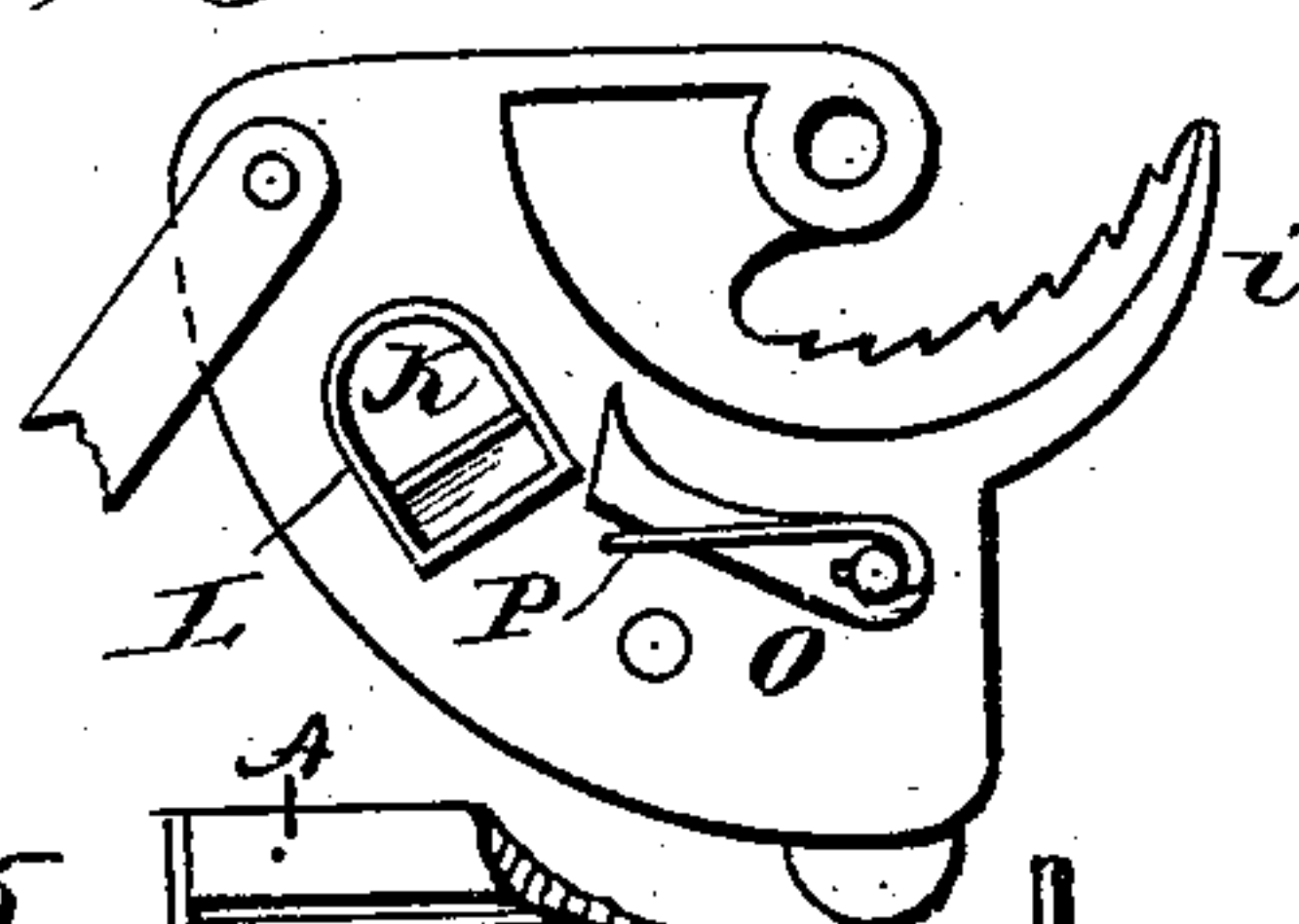
*Fig. 2.*



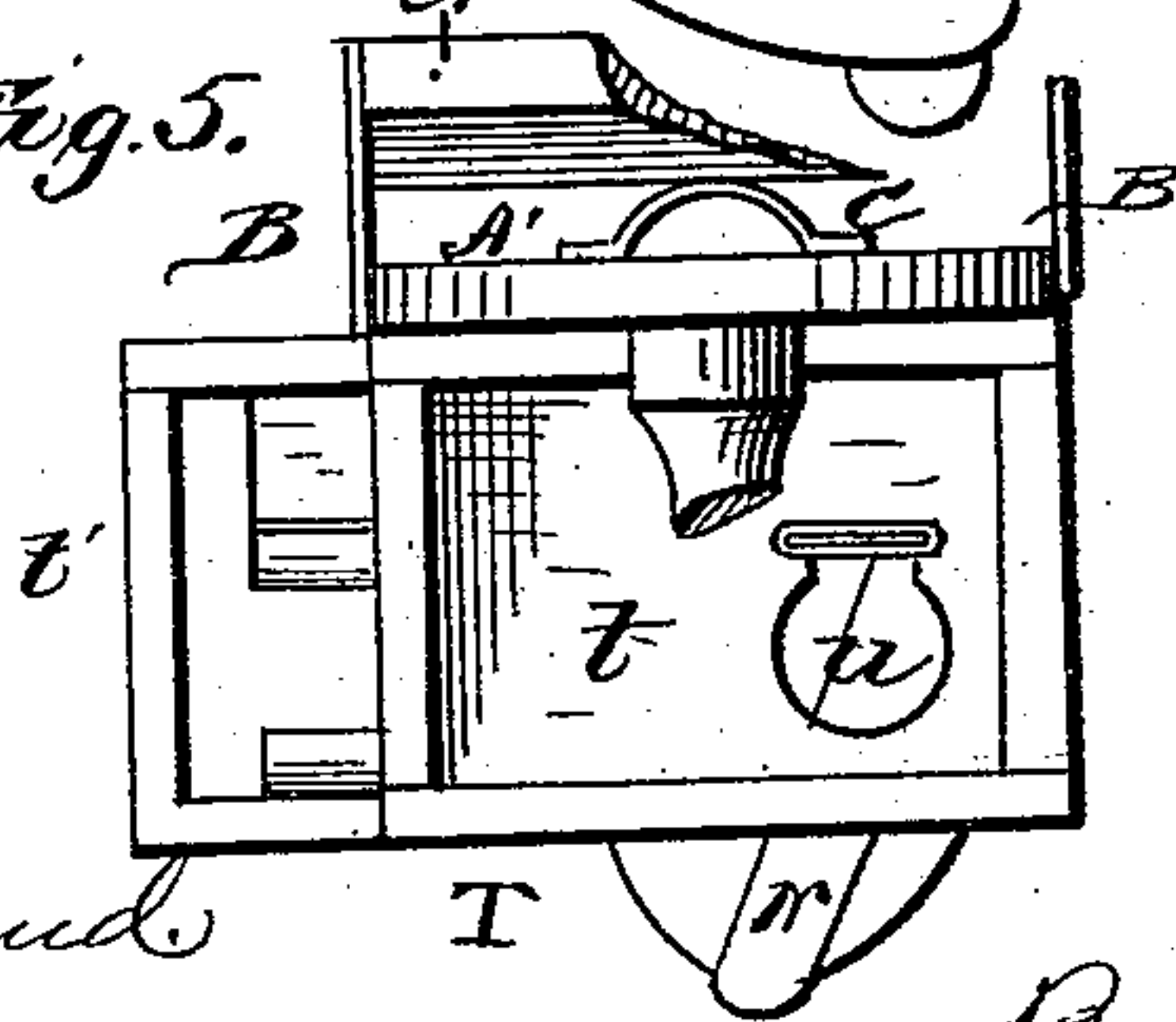
*Fig. 3.*



*Fig. 4.*



*Fig. 5.*



*Witnesses*

*Frank L. Curand*

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*att.*



# UNITED STATES PATENT OFFICE.

GILBERT L. HUDSON, OF ROMEO, MICHIGAN.

## HAND-PLANTER.

SPECIFICATION forming part of Letters Patent No. 234,984, dated November 30, 1880.

Application filed September 6, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, GILBERT L. HUDSON, of Romeo, in the county of Macomb and in the State of Michigan, have invented certain new and useful Improvements in Hand-Planters; 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 marked thereon, making a part of this specification.

This invention relates to an improved hand seed-planter; and it has for its object to provide an apparatus by means of which two different varieties of seed may be planted alternately at proper intervals, as more fully hereinafter specified. These objects I attain by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a longitudinal sectional view of my improved planter. Fig. 2 represents a horizontal section taken just below the seed-hopper. Fig. 3 represents a view of the bottom of the hopper. Fig. 4 is a detached view of the operating device through the medium of which the seed are dropped from the hopper, and Fig. 5 represents a top view of my improved device.

The letters A A' indicate two flat strips of wood or other material, one being provided with side pieces, B, at its lower end, to which the other is pivoted at C. The lower extremities of the strips A A' are provided with straight metallic shovels D, which may be inserted in the ground to make an opening for the seed.

The letter E indicates a horizontal shelf attached to the strip A' on the outside thereof. Upon said shelf is mounted a ratchet-wheel, G, which is journaled on a pin, H, which also has pivoted to it a horizontal dog, I. The said dog is provided with an opening or seed-pocket, K, which is provided at its lower side with a shoulder, L, extending around its edges to bring it flush against the upper surface of the shelf E. Said dog, on its upper side, is provided with a recess or groove, M, leading to the seed opening or pocket, in which groove is located an adjustable slide, N, by which the size of the opening may be regulated for different kinds of grain. The dog, on its under side, is provided with a pawl, O, held against

the ratchet-wheel by spring P, the said pawl being adapted to engage the ratchets as the dog is operated and turn the ratchet-wheel step by step. The ratchet-wheel is provided with openings or seed-pockets R.

S indicates a spring setting against the ratchet-wheel, and adapted to engage the ratchets thereof to prevent the wheel from moving backward.

The letter T indicates the seed-hopper, which is constructed with two compartments, *t t'*, to receive the two varieties of seed. The said hopper, at its bottom, is provided with seed-openings *u u'*, one leading from each compartment, the opening *u'* being provided with a spring-guide, U, by means of which the seed are directed properly to the pockets in the ratchet-wheel.

The dog I is constructed with an extension, *i*, which is adapted to work to the side of the spring U and hold the seed until properly deposited in the pocket.

The letters V V indicate seed apertures or passages in the shelf E, and W an inclined chute secured to the bottom of the shelf and side of the strip A'.

B' indicates a seed opening or passage through the strip A', and C' a chute leading therefrom to the lower end of the apparatus.

The letter D' indicates a link secured to the dog I, passing through a slot, E', in the strip A', and secured to the strip A. The strips A A' are provided with handles F', by which they may be operated.

The operation of my apparatus is as follows: Seed of one variety—such as corn—is placed in the compartment *t*, and seed of another variety—such as pumpkin, melon, or other flat seed—in the compartment *t'*. To plant the seed the shovels are inserted in the ground, the two being brought together for the purpose by separating the upper ends of the strips. Upon bringing the said ends together the shovels are carried away from each other, making an opening in the ground, and at the same time the dog is operated to drop a seed from the hopper *t* down between the strips and into the opening. The dog, in the course of its successive operations, moves the ratchet-wheel so as to drop a seed from the hopper *t'* at proper intervals.

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

5 In a hand-planter adapted to deposit two different varieties of seed, the combination of the strips A A', shovels D, shelf E, ratchet-wheel G, pin H, dog I, seed-pocket K, shoulder L, groove M, slide N, pawl O, the hopper T, having duplex compartments *t t'*, the aperture R, and passages B', all constructed, ar-

ranged, adapted, and combined to serve as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of August, 1880.

GILBERT L. HUDSON.

Witnesses:

C. F. MALLARY,  
ANSEL HAMBLIN.