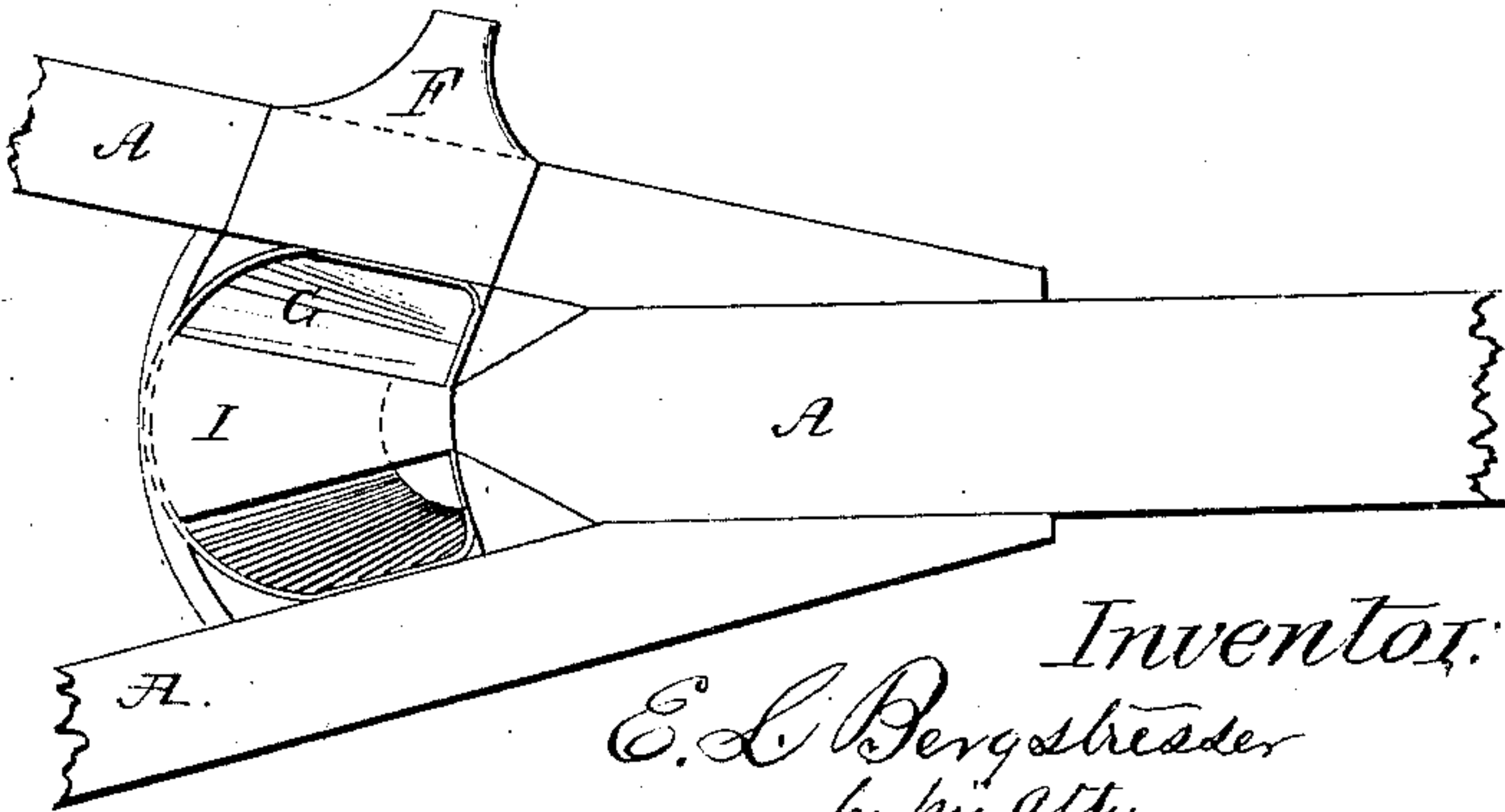
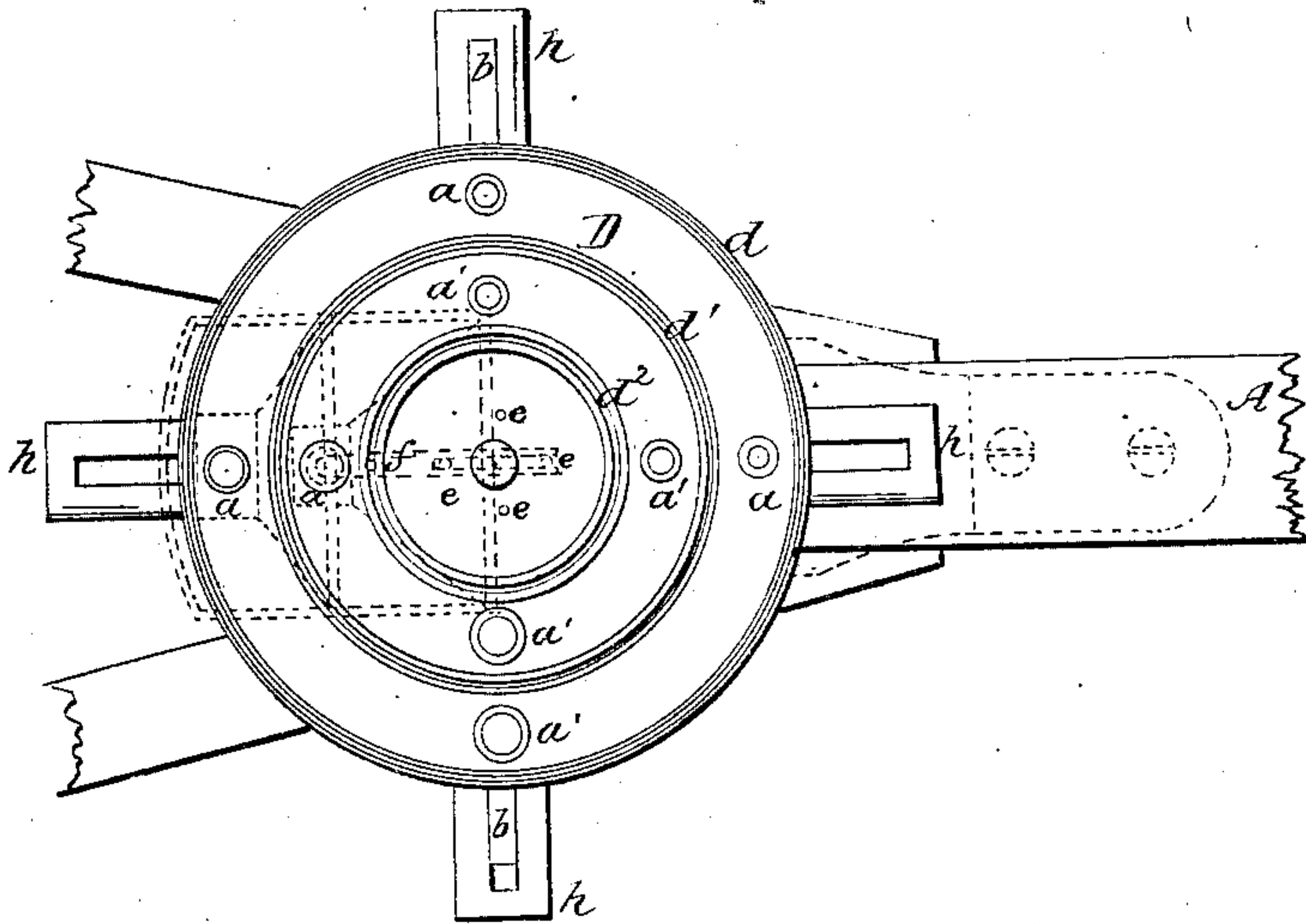
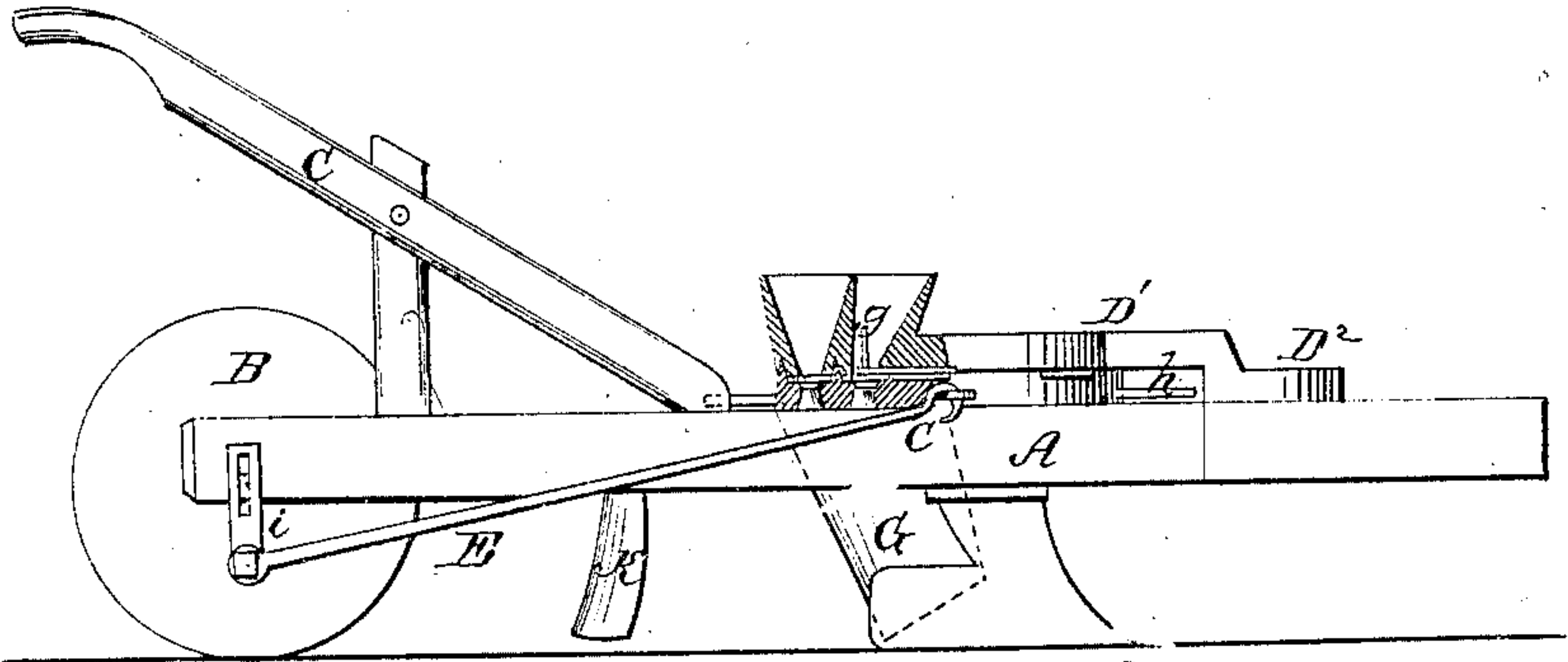


*E.L. Bergstreser.*

*Seed Planter,*

*No. 69,296,*

*Patented Sept. 24, 1867.*



*Witnesses.*

*Alex. Mahon  
J. C. Smith.*

*Inventor.*

*E. L. Bergstreser*

*by his atty*

*W. Smith*

# United States Patent Office.

EDWIN L. BERGSTRESSER, OF HUBLERSBURGH, PENNSYLVANIA.

*Letters Patent No. 69,296, dated September 24, 1867.*

## IMPROVEMENT IN CORN-PLANTERS.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDWIN L. BERGSTRESSER, of Hublersburg, in the county of Centre, and State of Pennsylvania, have invented a new and improved Corn-Planter; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a side elevation of the planter, showing the hopper and feeding-plate partly in section.

Figure 2 is a plan or top view of the vibrating feeding disk, showing the location of the hopper and manner of attaching the cover in red lines; and

Figure 3 is a plan view of the frame, with the operative parts removed to show the arrangement of the regulating slide and division board.

My invention consists in the employment of sectional feeders, each dropping a different number of grains of corn and a quantity of plaster or other fertilizing material corresponding to the amount of corn planted, constructed and operated as hereinafter described; also in the employment of circular ribs or roises, three on each section, fitting into corresponding circular grooves in the bottom of the box or hopper, and the encasing of the sections by means of a circular grooved lid or top; in the manner of attaching the box or hopper to the lid or top; in the provision of slotted or perforated arms or flanges to each section for the purpose of shifting it, and for the attachment of the bent end of the pitman. It furthermore consists in the employment of a slide or cut-off underneath the sections for the purpose of varying the distance between the hills, and in the manner of stirring the plaster by means of a slotted lever, having uprights in the hopper, working on a movable pin attached to the vibratory feeding-wheel or disk.

To enable others to understand and use my invention, I will proceed to describe it with reference to the drawings.

A is the main frame of the planter, made in the triangular form shown in the drawing, or in any other suitable manner. B B are the driving-wheels, and C C are the handles for guiding the planter, only one of each of which is shown in the drawings. D is the vibratory feeding disk, pivoted centrally to the main frame, containing pairs of holes  $a a'$  of different diameters, for the purpose of varying the quantity of corn and plaster dropped to each hill. This disk is provided with arms or flanges  $h h$  for the purpose of shifting the sections, having the slots or perforations into which the pitman or connecting-rod E is hooked by means of the bent end  $c$ . The pitman-rod E, at the other end, is connected by means of a swivel joint to the adjustable crank-arm  $i$ , attached to the axle of the driving-wheels B B.  $d d' d^2$  are ribs or roises in the vibratory disk, working in corresponding grooves in the bottom of the hopper, and  $e$  is the movable pin, capable of being fitted in different places equidistant from the pivot, according to the arrangement of the sections, fitting and working in the slotted lever  $f$ , attached to the top  $D'$ , and upon which are the uprights  $g$  working in the part of the hopper appropriated to the plaster for the purpose of agitating and insuring the proper discharge of the plaster.  $D^1$  is the cover or top fastened to the beam by means of the angular ear or lug  $D^2$ , as shown in the drawing. F is the slide or cut-off below the sections intended for varying the distance between the hills of corn planted, the machine planting on one side of the V-shaped division I in the bottom board, or from underneath the vibrating disk or feed-wheel. G is the funnel-shaped seed-tube attached to the frame underneath the vibratory disk, and fitting into the open angle of the furrow-tooth, and designed to receive and convey the corn and plaster to the bottom of the furrow. K K are the coverers placed in such apposition to the furrow-tooth as to return the earth into the furrow, thus covering the corn.

The forward motion of the machine communicates, as will readily be understood, by means of the pitman-rod E attached to the axle of the driving-wheels, a vibratory motion to the feed disk D. The corn and plaster being placed in their respective parts of the hopper, by means of the vibratory motion of the disk, pass through the perforations  $a a'$  upon the V-shaped division I, and are thence forced into the funnel-shaped seed-tube G, by which they are conveyed to the bottom of the furrow.

It will easily be perceived that two or more furrows can be planted at the same time by attaching the desired number of vibratory feed disks in proper relation to and at suitable distances from each other, or by working from opposite sides of the same disk through corresponding V-shaped divisions and seed-tubes, in which



case the feed-wheel or disk must be enlarged or necessary deflection given to the seed-tubes for planting the corn at proper distances.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The feed-wheel, provided with sectional feeders, each giving a different number of grains and a quantity of plaster corresponding to the amount of corn dropped, constructed and operated substantially as described.

2. The shifting sections provided with circular roises or ribs fitting into corresponding grooves in the bottom of the box.

2. The circular grooved lid or top encasing the sections, and to which the hopper is attached, constructed and applied substantially as described.

4. The slotted lever, having uprights in the bar operated by means of the movable pin, so that it can be used for each section, substantially as described.

5. The slotted or perforated arms or ears on each section for shifting the sections and affording an attachment for the end of the pitman as described.

6. The V-shaped bottom or division under the sections, in connection with the slide or cut-off, operating as described.

In testimony whereof witness my hand this 26th day of July, 1867.

EDWIN L. BERGSTRESSER.

Witnesses:

W. S. SEARCH,  
SAM'L L. BARR.