

(No Model.)

2 Sheets—Sheet 1.

W. A. SLAPPEY.
PEA SHELLER AND SEPARATOR.

No. 386,612.

Patented July 24, 1888.

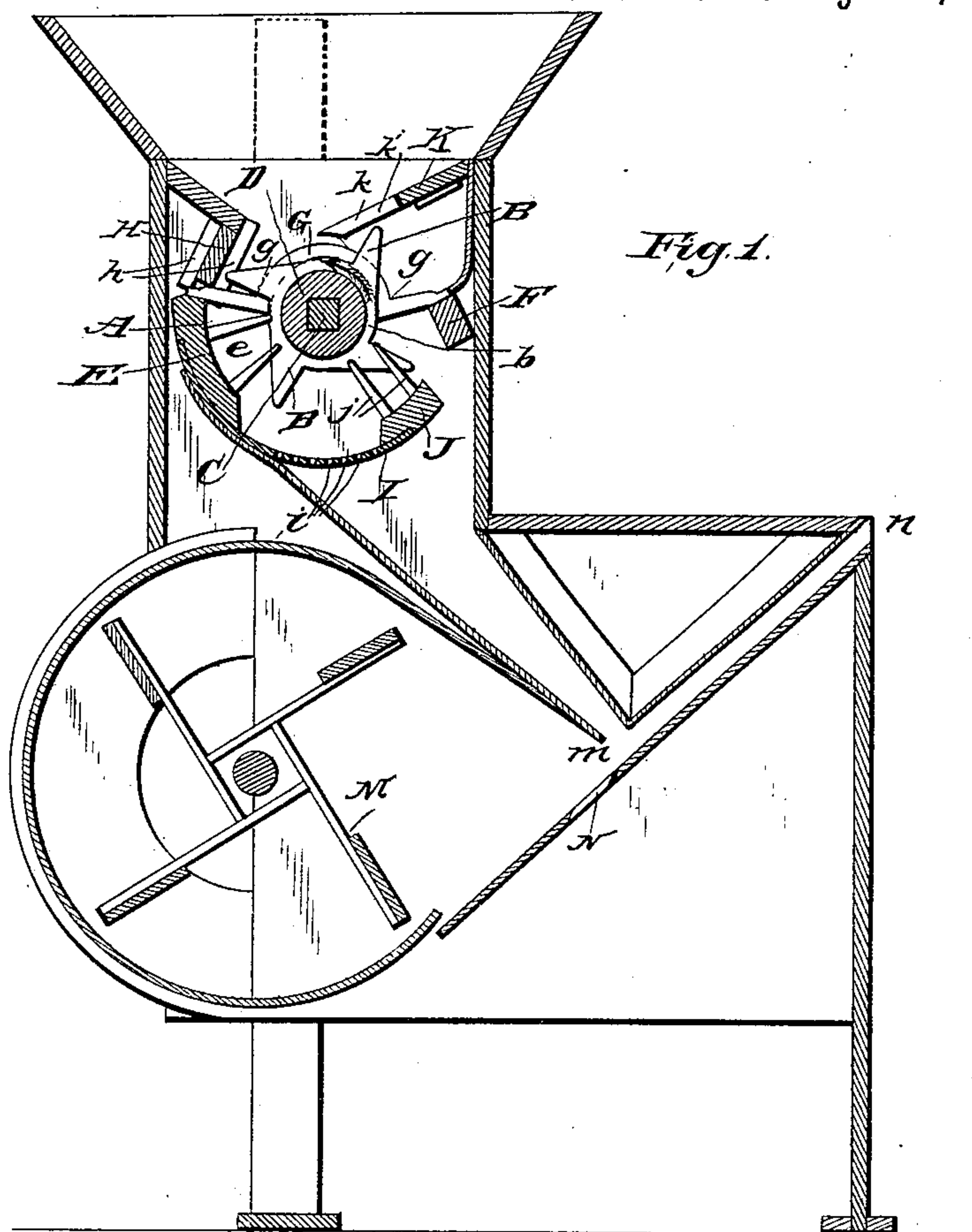


Fig. 1.

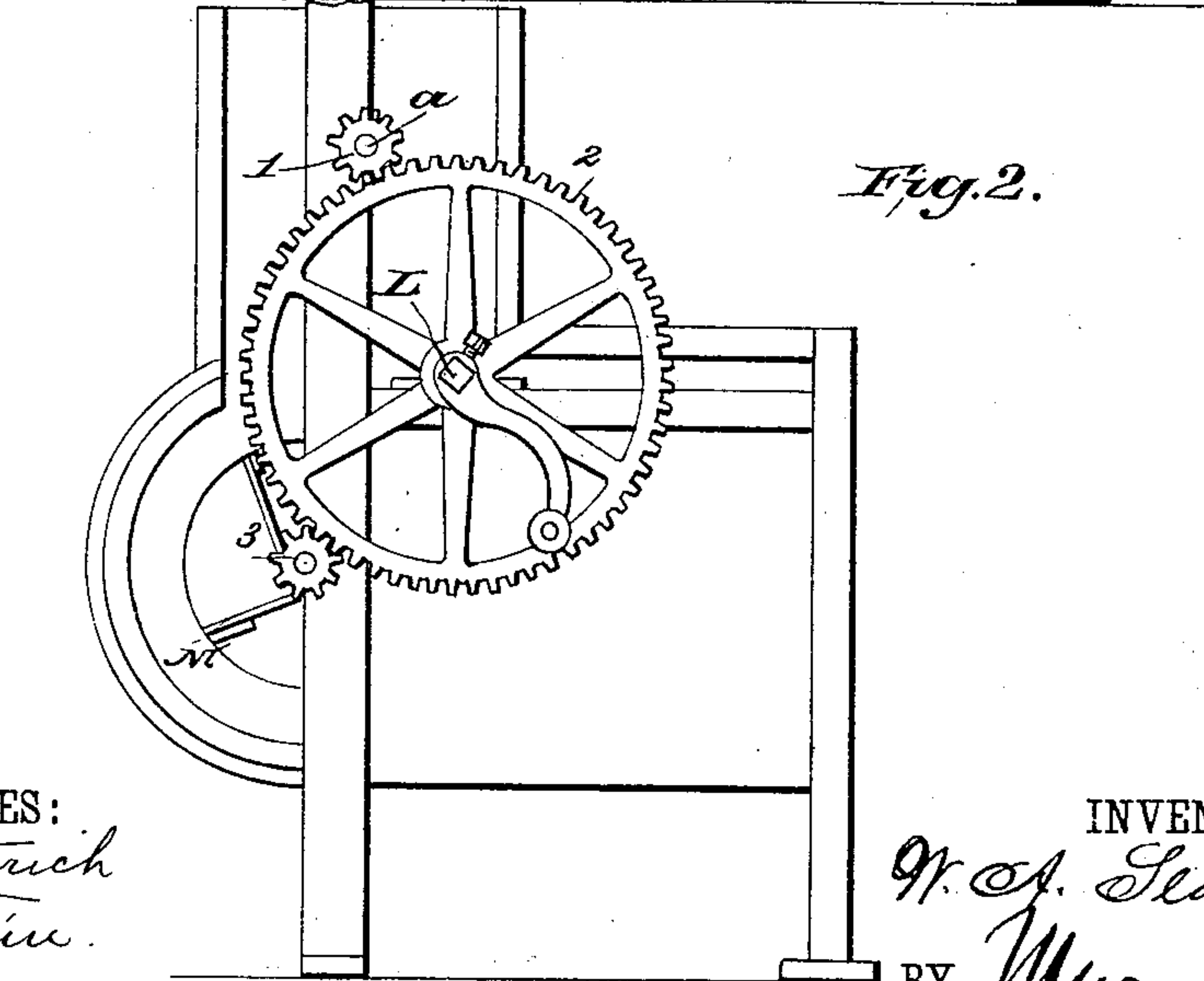


Fig. 2.

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P. B. Turpin

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ATTORNEYS.

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Fig. 3.

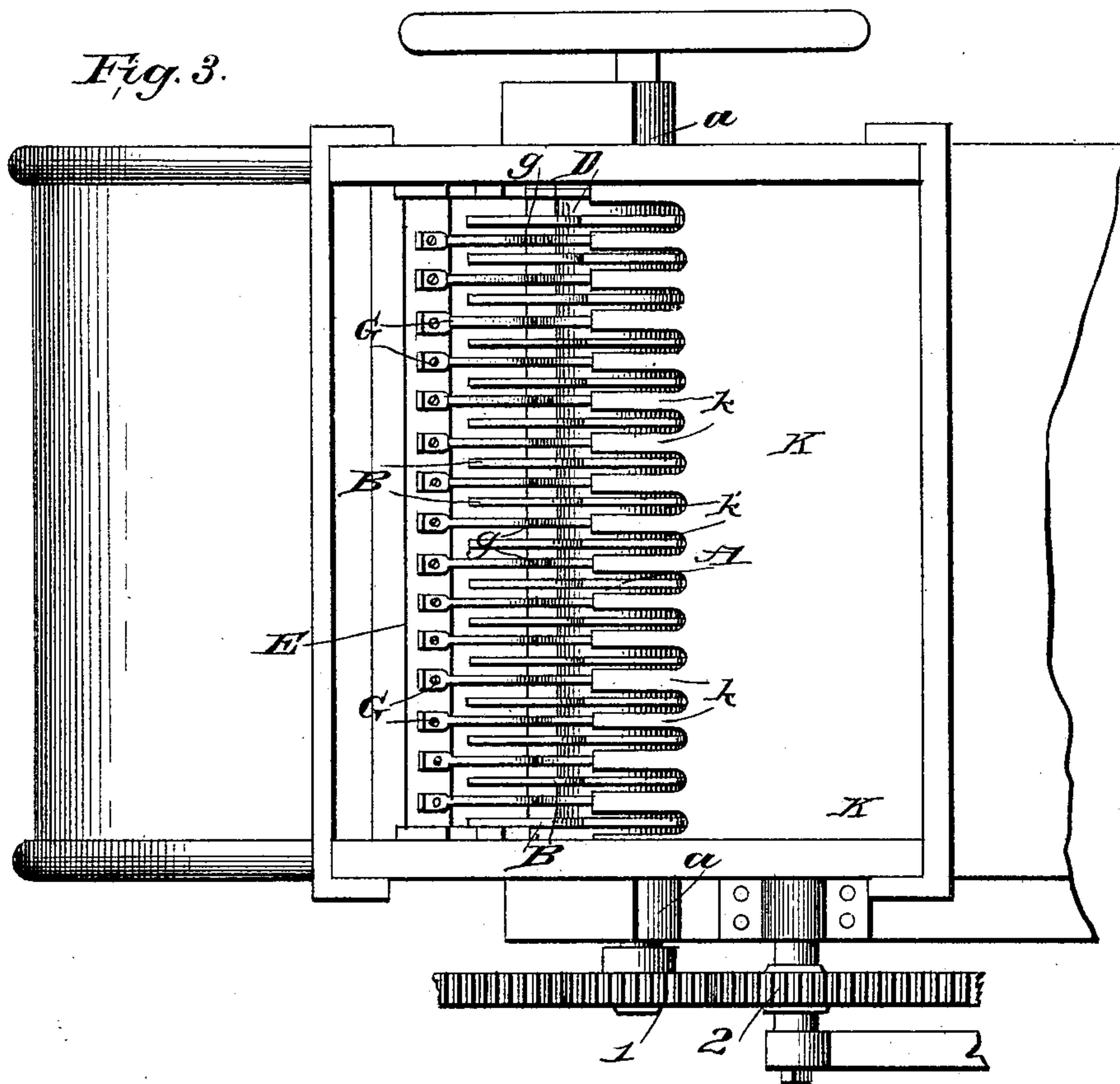


Fig. 4.

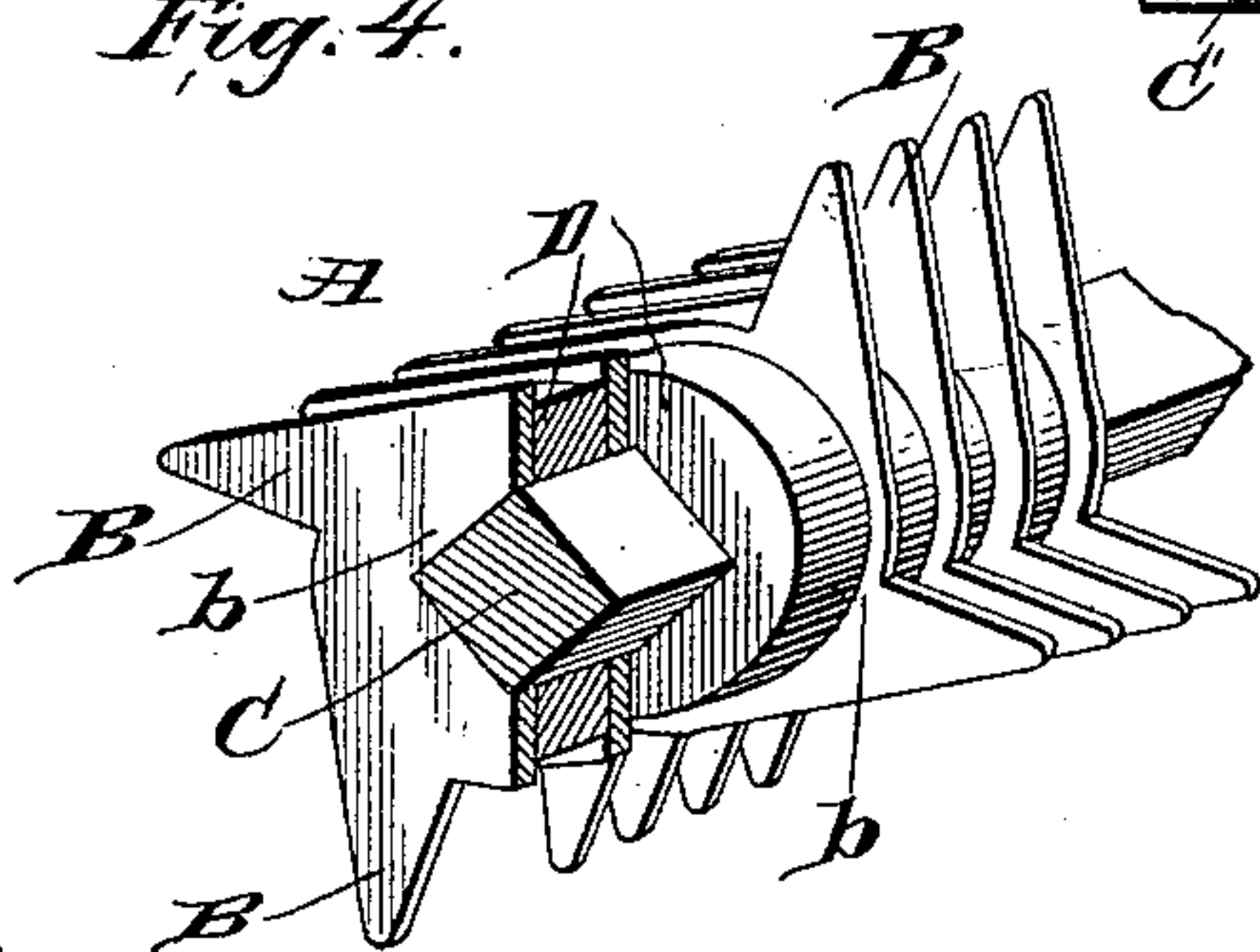
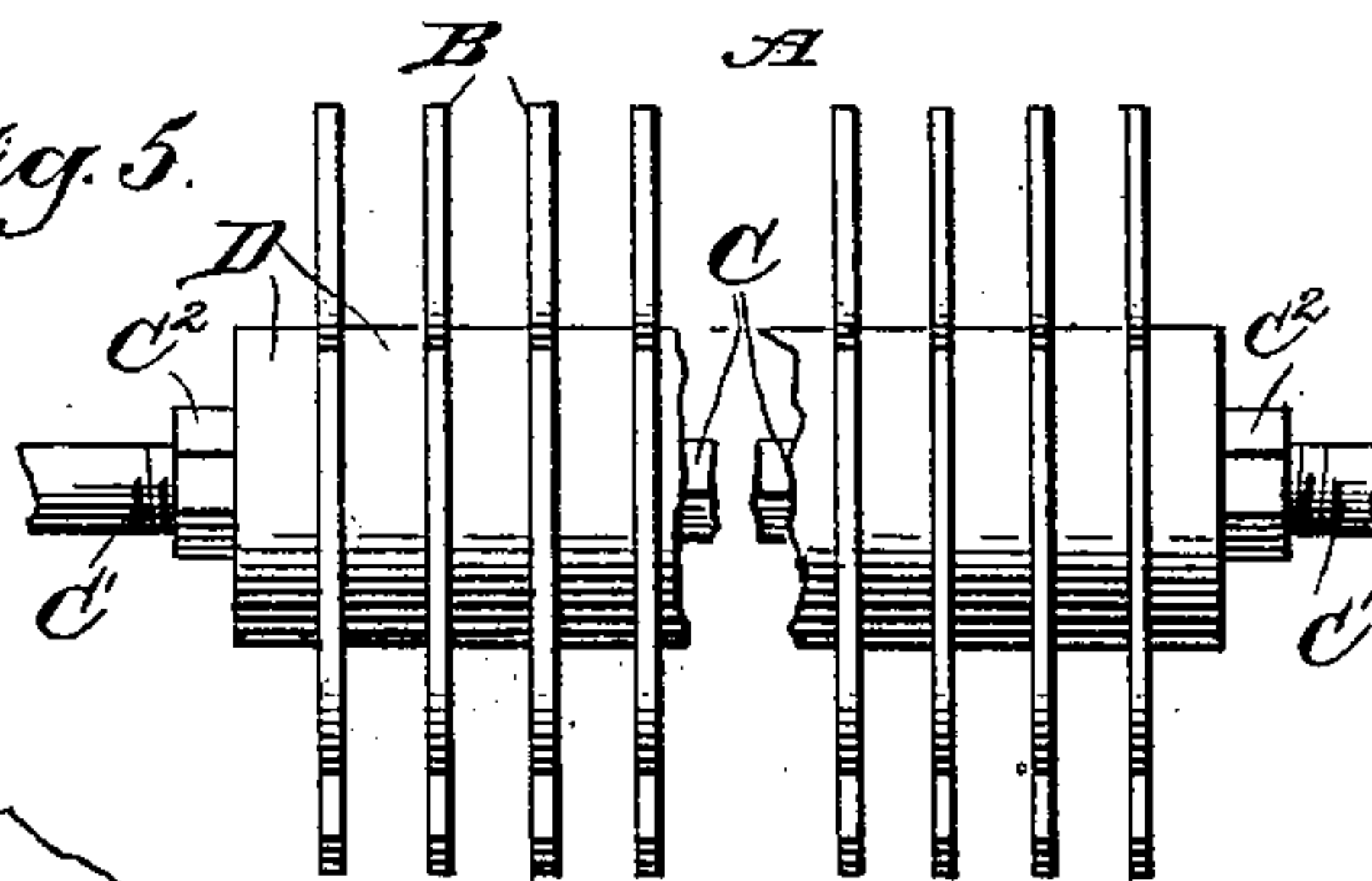


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM AUGUSTUS SLAPPEY, OF FORT VALLEY, GEORGIA, ASSIGNOR OF
ONE-HALF TO FRANKLIN C. HOUSER.

PEA SHELLER AND SEPARATOR.

SPECIFICATION forming part of Letters Patent No. 386,612, dated July 24, 1888.

Application filed April 7, 1887. Serial No. 234,075. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM AUGUSTUS SLAPPEY, of Fort Valley, in the county of Houston and State of Georgia, have invented a new and useful Improvement in a Pea Sheller and Separator, of which the following is a specification.

My invention is an improved pea sheller and separator; and it consists in certain features of construction and novel combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a vertical longitudinal section of my machine. Fig. 2 is a side elevation on a reduced scale. Fig. 3 is a partial plan view, the hoppers being removed; and Figs. 4 and 5 show the cylinder in detail.

In carrying out my invention I provide a suitable framing in which to support the several operating parts. The cylinder A is journaled at *a* in the framing, and is provided with spikes B, projecting outwardly, as shown. These spikes are formed on rings *b*, which have openings fitting the non-circular shaft C, and on said shaft between said rings I place the filling or space blocks D, usually of wood, and by which the beaters *b* B are held the desired distance apart and preserved in such relation.

On bars E F, supported in the framing, I secure the ends of ribs G, which are arranged at right angles to the axis of the cylinders and extend above the same, the beater-spikes operating between the said ribs, as shown. These ribs arch over the cylinder at their central portion, the portions near their ends being depressed, as at *g*, the front ones of these depressions forming, to a certain extent, a hopper in which the peas are received.

The front board, H, is supported movably in guides *h*, and is arranged immediately over the bar E and the front ends of the ribs G. This board rests normally on the ribs, as shown in Fig. 1, but may be readily raised, when desired, for the purpose of clearing any rubbish or other accumulation off the ribs. The bar E extends downward below the ribs, forming part of a concave, and is provided near its lower edge with a row of spikes, *e*. To the lower edge of this bar E is attached one edge of the sheet I, which is extended under the

cylinder, and is attached at its other edge to a bar, J, which is provided with spikes *j j*. The plate I has perforations *i* and serves as a separator, in a manner readily understood from the drawings.

Above the cylinder I arrange the feed-board K, which extends from its upper rear edge downward over the cylinder, and has at its lower edge a number of fingers, *k*, separated by slots *k'*, the fingers terminating, as shown, about over the forward depressions, *g*, of the ribs G.

The spikes of the cylinder-beaters operate upward through the slots *k'*, and the feed-board serves as a means of preventing the peas supplied to the machine from passing back of the cylinder.

The cylinder has a pinion, 1, meshed by the gear 2 on the drive-shaft L, which gear 2 also meshes with the pinion 3 on the fan-shaft. The fan M is arranged in a suitable case, and forces the air out at *m* into contact with the shells and peas from the cylinder and concave, forcing the husks and the like out at *n*, while the peas discharge at N clear of husks, dust, and the like.

It is preferred to form the ribs G with depressions *g* near each end, so such ribs may be reversed end for end when so desired.

The shaft C may be threaded at C' to receive the nuts C², by which to clamp the parts D B together.

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

1. A pea-sheller comprising the framing, the ribs G, having the upwardly-arched central portion, the feed-board having its lower end formed with fingers *k*, terminating over the upwardly-arched central portion, the cylinder journaled below the arched portion of the ribs, and having spikes which operate between such ribs and between the fingers of the feed-board, and the spiked or toothed concave below the cylinder, substantially as set forth.

2. In a pea-sheller, the combination of the framing, the ribs G, having centrally arched and depressed end portions, the feed-board K, having its lower end arranged vertically over the center or crown of the arched portions of

the ribs, and the toothed or spiked cylinder arranged below said ribs, substantially as set forth.

3. In a pea-sheller, the combination of the
5 framing, the cylinder having spikes B, the bars E J, having spikes *e j*, the plate I, extended below said cylinder and between the bars E J, the bar F, the ribs G, arched over the cylinder and supported at one end on the
10 bar E and at their opposite ends on the bar F, and the feed-board, all substantially as and for the purposes specified.

4. The combination, in a pea-sheller, of the framing, the ribs, the cylinder journaled below said ribs and having teeth or spikes which
15 operate between said ribs, and the feed-board having at its lower end fingers which extend close to the ribs, the teeth of the cylinder also operating between said fingers, substantially as and for the purposes specified.

WILLIAM AUGUSTUS SLAPPEY.

Witnesses:

GEO. P. GREENE,
A. B. GREENE.