

(No Model.)

3 Sheets—Sheet 1.

W. T. CRUTCHFIELD.

PEA HULLER.

No. 273,968.

Patented Mar. 13, 1883.

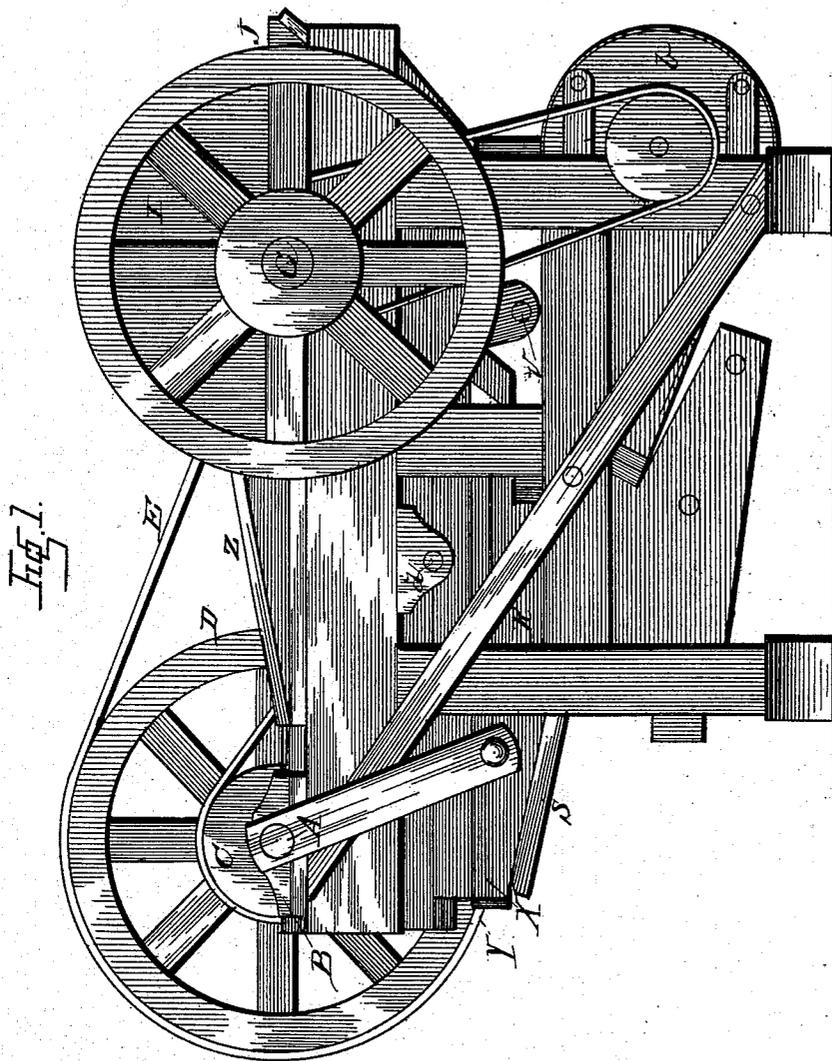


Fig. 1.

WITNESSES:

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J. G. Finkel

William T. Crutchfield,
INVENTOR.

By Louis Bagger & Co.

ATTORNEYS.

(No Model.)

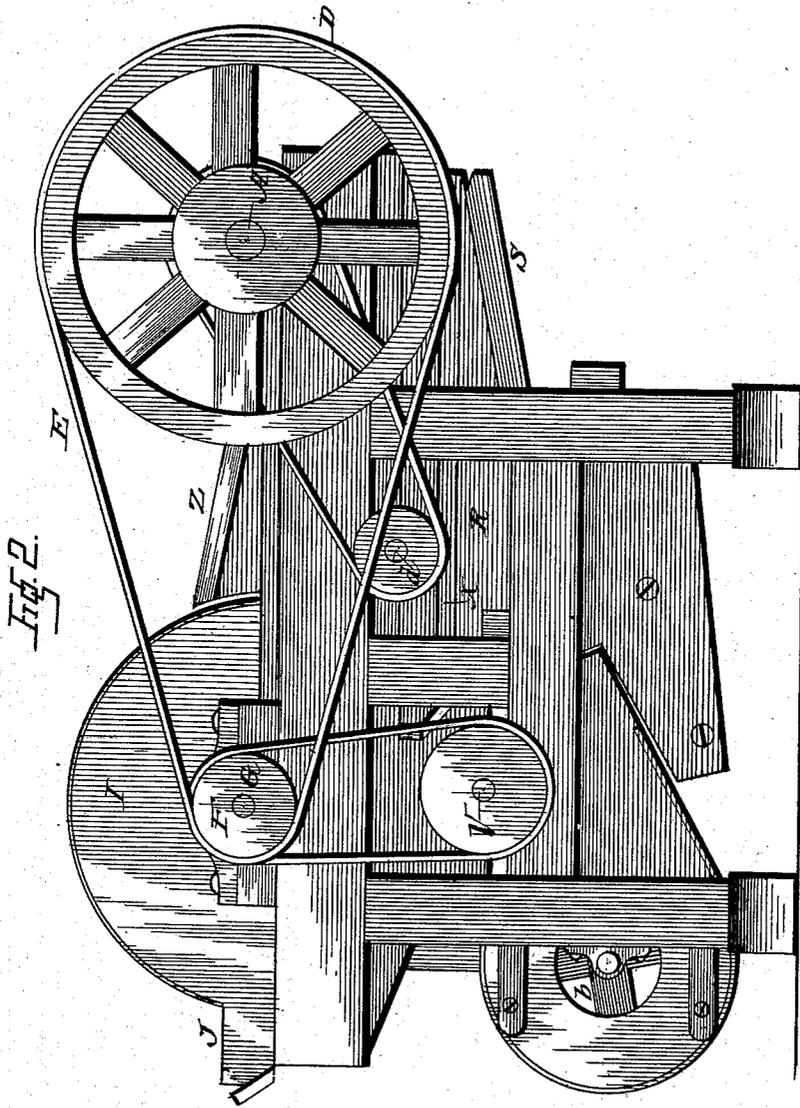
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WITNESSES:

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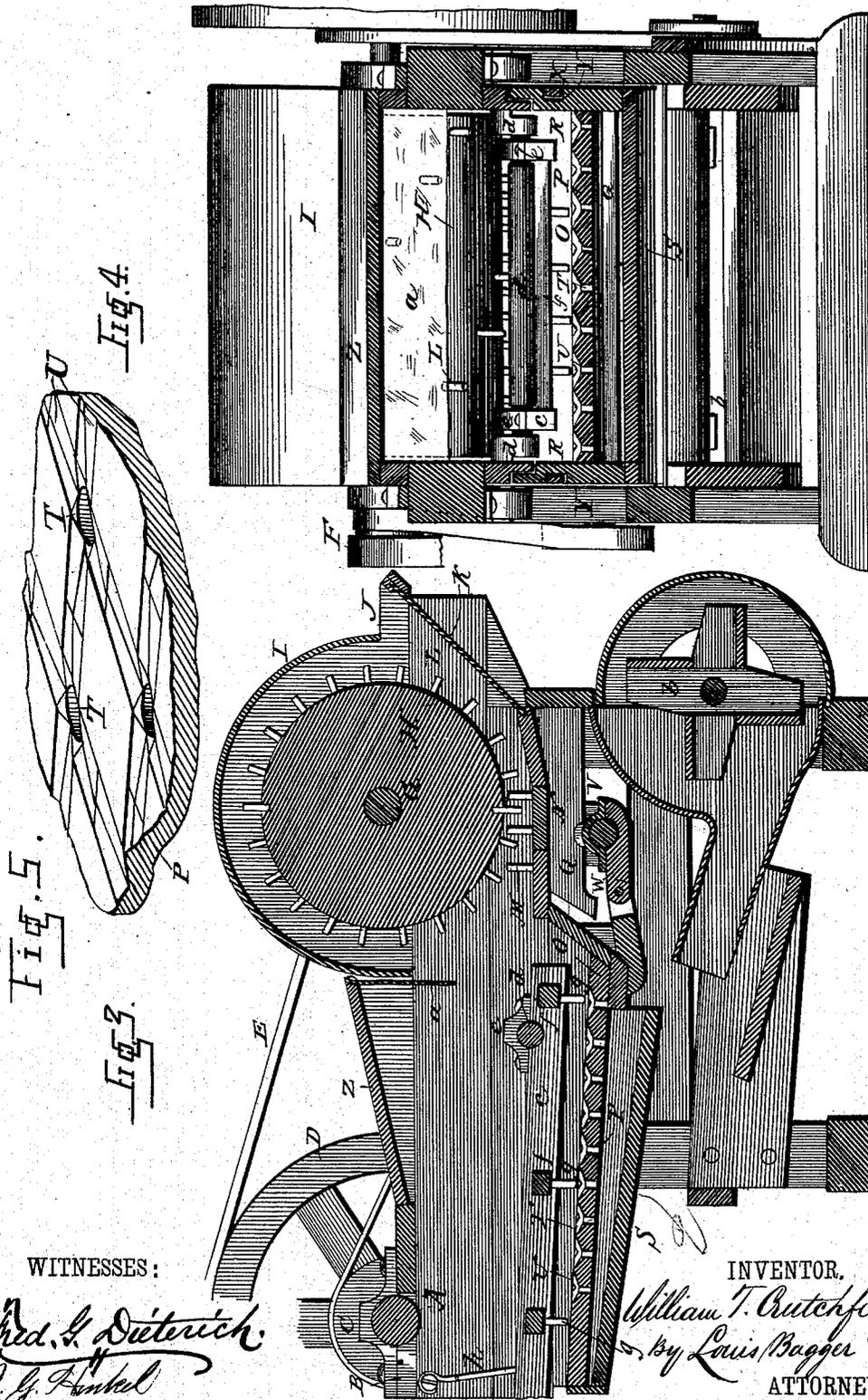
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WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM T. CRUTCHFIELD, OF HENRY STATION, TENNESSEE.

PEA-HULLER.

SPECIFICATION forming part of Letters Patent No. 273,968, dated March 13, 1883.

Application filed December 29, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. CRUTCHFIELD, of Henry Station, in the county of Henry and State of Tennessee, have invented certain new and useful Improvements in Pea-Hullers; 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, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a side view of my improved pea-huller. Fig. 2 is a similar view from the other side. Fig. 3 is a longitudinal vertical section, and Fig. 4 is a cross-section, of the same; and Fig. 5 is a detail view of the sifter.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to pea-hullers; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, A represents the drive-shaft, which turns in bearings B upon the frame, and may be turned by hand, animal, steam, or any other power. Upon one end of the shaft is fastened a pulley, C, and a wheel, D, over which passes a belt, E, which passes over a pulley, F, upon the cylinder-shaft G.

H is the cylinder, which is covered by a hood, I, and to which the peas are fed through an opening, J, sliding down an inclined plate, K. The cylinder is provided with series of teeth, L, arranged spirally, which pass between teeth M, fastened upon flat bridge-pieces N, below the cylinder. From the cylinder the peas, pods, and straw fall upon the separator O, which consists of a perforated sifter, P, an inclined back piece, Q, the grooved sides R, and an inclined bottom, S. The sifter P is grooved longitudinally and transversely at equal distances, and at each intersection of the grooves U is a perforation, T, passing through the sifter, the grooves inclining toward each perforation, so as to guide the peas to the perforations, through which

they pass, while the pods and straw are carried off by the straw-carrier c. The separator is operated by a crank-shaft, V, upon which a short pitman, W, is hinged, which is hinged to the end of the separator, and the separator slides upon strips or cleats, X, upon the sides of the frame, which fit into grooves Y in the sides of the separator.

Immediately over the separator, at the point where the peas pass from the cylinder down upon the separator, is a hood, Z, having an apron, a, partly cutting off the opening from the cylinder, which prevents the thrashed peas from springing out at the opening for the passage of the straw. While the peas roll down the inclined bottom of the separator they are subjected to the blast from a fan, b, which blows away the chaff and dust, after which they pass out under the machine, the straw and pods being carried out of the machine by the straw-carrier c. This straw-carrier is operated by a double crank-shaft, d, turning in bearings in the frame and turning with its bent part in bearings e, in the side pieces of the straw-carrier. The side pieces of the carrier are connected by cross-pieces f, having teeth g, and their rear ends are suspended by means of arms h, hinged to them and to the frame of the machine. By the straw-carrier being reciprocated by the shaft d and working over the reciprocating separator O the straw and pods are worked out at the rear of the machine, where they fall upon the ground, while the peas pass through the perforated top of the separator, guided by the grooves U and prevented by them from being swept away by the straw.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a pea-huller, the separator O, provided with sifter P, having perforations T, and upon its upper surface equidistant longitudinal and transverse grooves U, inclined toward said perforations at their intersecting points, substantially as and for the purpose shown and set forth.

2. The herein-described pea-huller, consist-

ing of the cylinder H, flat bridge N, hood Z, having apron *a*, reciprocating separator O, having perforated transversely and longitudinally grooved sifter P, oscillating straw-carrier *c*, and fan B, all constructed to operate substantially as and for the purpose shown and set forth.

In testimony that I claim the foregoing as

my own I have hereunto affixed my signature in presence of two witnesses.

WILLIAM TAYLOR ^{his} X CRUTCHFIELD.
mark.

Witnesses:

WILLIAM DINKINS,
O. Z. NASH.