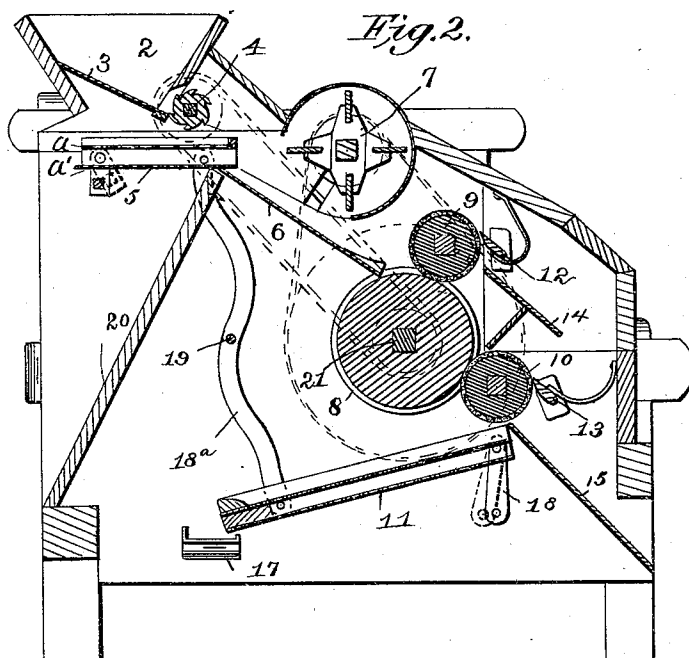
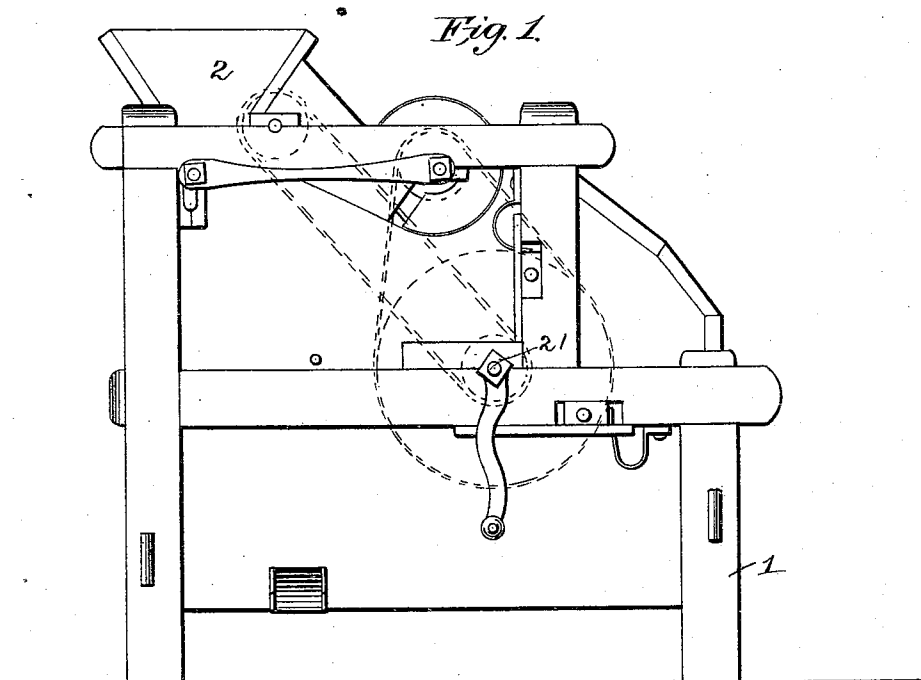


(No Model.)

J. RUDASILL.
MACHINE FOR CLEANING WHEAT.

No. 478,469.

Patented July 5, 1892.



Witnesses:

Jno. E. Jones
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Inventor.

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UNITED STATES PATENT OFFICE.

JACOB RUDASILL, OF CHERRYVILLE, NORTH CAROLINA.

MACHINE FOR CLEANING WHEAT.

SPECIFICATION forming part of Letters Patent No. 478,469, dated July 5, 1892.

Application filed October 29, 1890. Serial No. 369,748. (No model.)

To all whom it may concern:

Be it known that I, JACOB RUDASILL, of Cherryville, in the county of Gaston and State of North Carolina, have invented a new and
5 Improved Grain-Separator, of which the following is a specification.

The invention relates to improvements in grain-separators.

The object of the present invention is to
10 provide comparatively simple and effective means whereby cockle may be separated from wheat.

The invention consists in the construction and novel combination and arrangement of
15 parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended.

In the drawings, Figure 1 is an elevation of a grain-separator constructed in accordance with this invention. Fig. 2 is a vertical
20 sectional view of the same.

Referring to the accompanying drawings, 1 designates a frame provided at its top with a hopper 2, which has an inclined bottom 3.
25 Its contents are fed by a grooved feed-roller 4 upon a screen 5 and an inclined chute 6, and coarse trash is separated from the wheat by the shaking-screen 5 and by a fan 7, arranged opposite the screen or sieve 5 and below the
30 feed-roller 4. The wheat is separated from cockle by means of a large sheet-metal-covered roller 8 and small rubber or cloth covered rollers 9 and 10, arranged above and below the sheet-metal roller 8. The cockle adheres to the small rollers, and is thereby separated from the wheat, which falls upon a reciprocating grader 11, and the cockle is removed from the rollers 9 and 10 by scrapers
35 12 and 13 and is directed by inclined boards 14 and 15 through an opening of the frame at the end opposite to that from which the wheat is discharged. The scrapers which scrape the cockle from the small rollers are attached to springs, which are secured to the
40 frame. The grader 11 is inclined and discharges into a chute 17 and has one end supported at each side by an oscillating hanger 18, and its other end is supported by a curved bar 18^a, which is pivoted at 19 at a point in-

termediate its ends and has its lower end 50 pivotally connected to the grader and its upper end similarly attached to the shaking screen or sieve 5. The trash from the latter is directed by the inclined board 20 from the machine. Motion is transmitted from the
55 shaft 21 of the large roller 8 to the fan and to the feed-roller by belts, as illustrated by dotted lines in Fig. 2 of the accompanying drawings, and the grader and the shaking sieve or screen 5 are actuated by any suitable
60 connection.

The screen 5 comprises, respectively, an upper coarse sieve *a* and a lower finely-perforated sieve *a'*. The coarse-meshed sieve *a* is designed to remove sticks, gravel, garlic, oats, and kindred foreign substances. The finely-
65 perforated sieve *a'* is provided to remove sand and dirt. By having the fan 7 arranged directly opposite the screen 5 and between it and the cockle-separator all foreign matter—
70 such as sticks, gravel, sand, dust, &c.—is removed from the grain by the combined action of the sieves *a* and *a'* and the fan before the wheat passes to the cockle-separator, thereby preventing the rubber or cloth covered rolls
75 9 and 10 from being cut or worn by the silica, &c., contained in the uncleaned wheat.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will
80 be readily understood.

What I claim is—

In a grain-separator, the combination of a hopper, a cockle-separator consisting of metal and elastic faced rollers and scrapers
85 to remove the cockle from the said elastic-faced rollers, and a series of sieves and a fan intermediate the hopper and cockle-separator to remove the light trash, sand, dust, and material specifically heavier and smaller than
90 wheat from the latter before it passes to the said cockle-separator, substantially as and for the purpose described.

JACOB RUDASILL.

Witnesses:

J. B. WHITE,
W. A. RUDISILL.