

Corn Sheller.

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Inventor:
H. W. Whitson
per *Mumford & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. WHITEROW, OF NEW ALBANY, ASSIGNOR TO HIMSELF AND
WILLIAM DETRICK, OF GREENCASTLE, INDIANA.

IMPROVEMENT IN CORN-SHELLERS.

Specification forming part of Letters Patent No. **81,121**, dated August 18, 1868.

To all whom it may concern:

Be it known that I, WILLIAM H. WHITEROW, of New Albany, in the county of Floyd and State of Indiana, have invented a new and Improved Corn-Sheller; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved device for shelling corn; and consists in the application of a shelling and feeding device to gearing, as hereinafter fully shown and described, whereby the desired work may be done very expeditiously and in a perfect manner.

In the accompanying sheet of drawings, Figure 1 is a rear view of a portion of the invention; Fig. 2, a side sectional view of the same, taken in the line *x x*, Fig. 3; Fig. 3, a front view of the same.

Similar letters of reference indicate corresponding parts.

A represents an upright, which is firmly secured to any proper fixture, and C is a driving-shaft, which has its bearing in the upright A, with a crank, D, at one end and a toothed wheel, E, at the opposite end.

In the upright A, some distance below the shaft C, there is fitted horizontally a metal tube, F, the rear end of which is flush with the rear side of the upright A, but the front end projects in front of the upright A, and is provided with a flange, *a*, which extends all around it to form a bearing for a toothed wheel, G, being allowed to turn freely on tube F, and the flange *a* retaining said wheel on said tube.

The wheel E gears into the wheel G, the former being of greater diameter than the latter, so that a requisite speed or motion may be given to G.

The wheel G is made or cast with a circular concentric opening, which is in line or concentric with the tube F, and to the outer or face side of the wheel G there are secured two bars,

H H, said bars being attached at one end to the wheel by pivots *b*, the pivot of one bar being opposite to the free or disengaged end of the other, as shown in Fig. 3.

Each bar H is formed with a projecting lip, *c*. These lips extend out obliquely from the face of the wheel G, and serve in the capacity of shellers, and they are kept in contact with the ear of corn being shelled by means of springs I, as will be fully understood by referring to Fig. 3. The bars H, at their inner edges, are of curved spiral form, as shown at *d*, and these parts *d* serve as feeders, to draw the ear of corn through the tube F.

In addition to the lips *c c*, there are two bars, J J, pivoted to the rear side of the upright A. (See Fig. 1.) These bars J J have springs *e* bearing against them, and the inner edge of each of these bars is provided with projecting edges, *f f*, which hold the ear of corn, and prevent it from turning, while the lips *c* shell the corn from the ear.

The invention is extremely simple and efficient, operates rapidly, and performs its work in a thorough manner, and a moderate amount of power only is required to operate it.

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

1. The shelling-lips *c*, and spiral feeding-edges *d*, the pivoted bars H H, and the wheel G, all constructed and arranged substantially as and for the purposes specified.

2. The bars J J, at the rear of the upright A, in connection with the bars H, provided with the shelling-lips and feeding-edges, all arranged substantially as and for the purpose specified.

3. The tube F, in combination with the bars J J, bars H H, and the wheels E G, all arranged and combined to operate in the manner substantially as and for the purpose set forth.

WILLIAM H. WHITEROW.

Witnesses:

DAVID R. SCOTT,
PELEG FISKE.