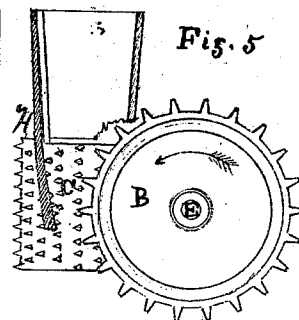
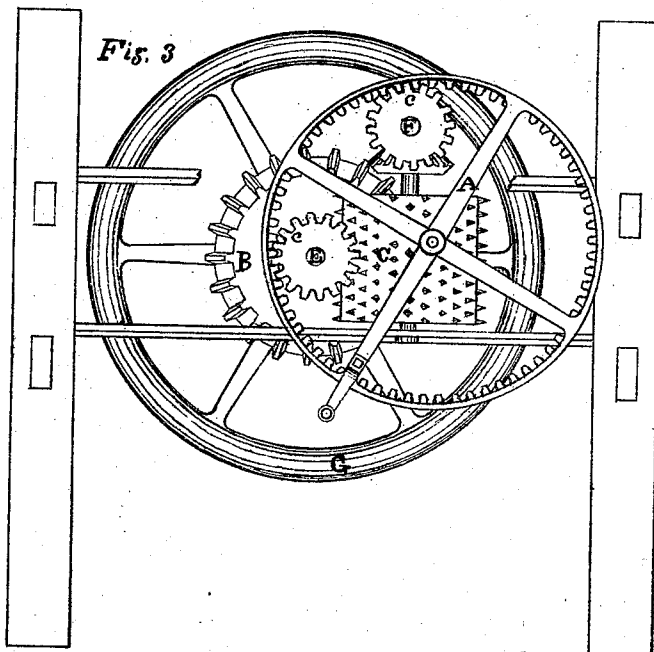
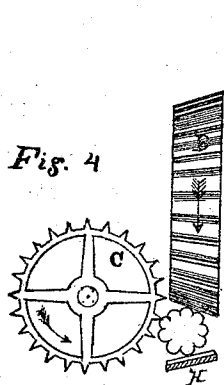
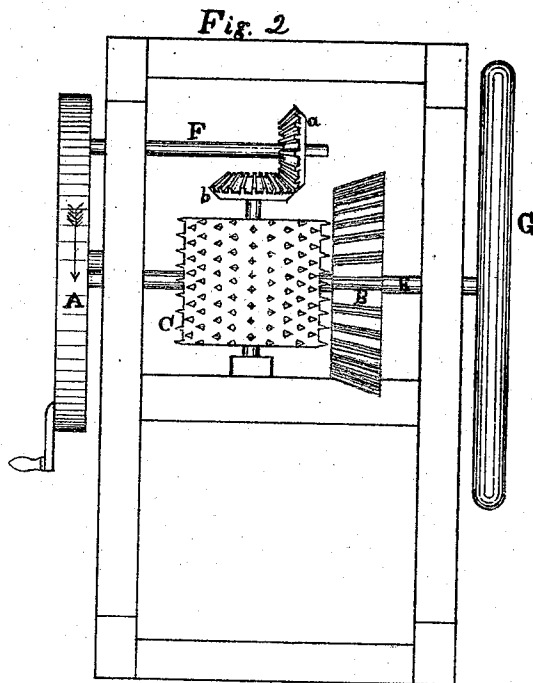
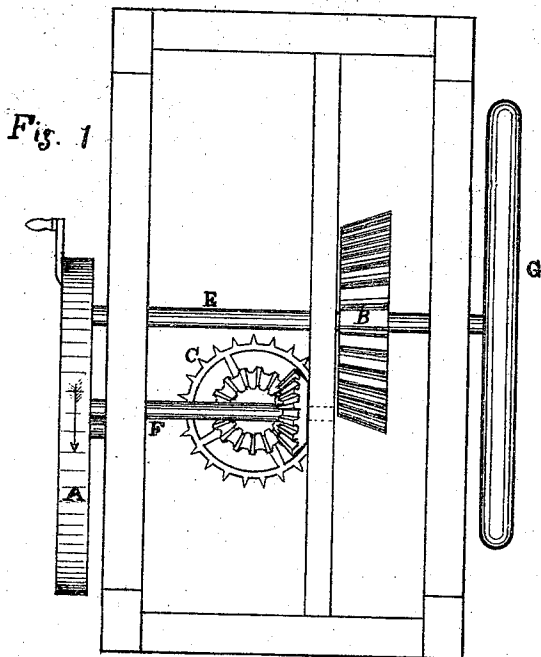


Sheet No. 1
HARMON W. CORNELL'S

IMPROVED CORN SHELLER.

117607

PATENTED AUG 1 1871



Witnesses:
H. A. Brooks
Lymon J. Little

Inventor
Harmon W. Cornell

Harmon & Cornell's Corn Sheller

117607

Fig. 6

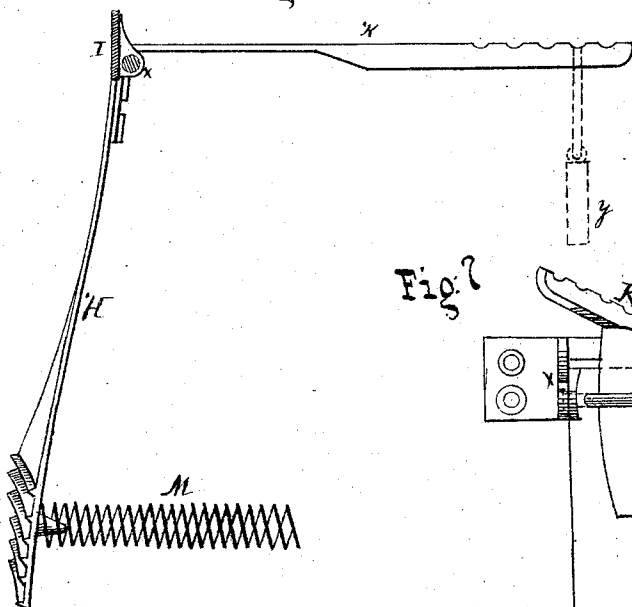
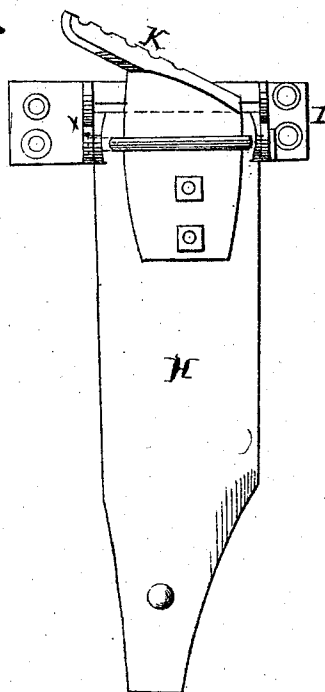


Fig. 7



Witnesses.

C. L. Erskine
C. N. Mann

Inventor.

Harmon & Cornell

UNITED STATES PATENT OFFICE.

HARMON W. CORNELL, OF OWEGO, NEW YORK.

IMPROVEMENT IN CORN-SHELLERS.

Specification forming part of Letters Patent No. 117,607, dated August 1, 1871.

To all whom it may concern:

Be it known that I, HARMON W. CORNELL, of Owego, in the county of Tioga and the State of New York, have invented certain Improvements in Corn-Shellers, of which the following is a specification:

The nature of my invention consists in the construction and arrangement of the parts of a corn-sheller, whereby an equal pressure is obtained on the ear and the corn shelled from the cob with rapidity, and without the clogging of the machinery or the dragging of the ear.

In the accompanying drawing, Figure 1 shows the top of the machine with the spout and spring removed. Fig. 2 is a vertical elevation of one end of the machine, clearly showing the wheels. Fig. 3 is a side of the machine with parts of the frame removed to show the gearing. Fig. 4 shows the top of the shelling-wheels and spring and the position of the corn in passing through. Fig. 5 is a vertical elevation of the same parts; also, showing the spring and part of the spout. Figs. 6 and 7 represent the specific presser-bar I prefer to use.

On a stud, attached to the side of a suitable frame, is hung the internal gear-wheel A, inside of which are two small pinions, *c c*, Fig. 3, on the ends of the horizontal shafts E and F. A small bevel-gear, *a*, is keyed on the shaft F near its end, inside the frame of the machine, which meshes in another gear, *b*, on the shaft through the vertical cylinder C. The shaft E passes entirely through the machine, and has attached to its end, outside the frame, the fly-wheel G. Inside the frame, on the shaft E, is the wheel B, the periphery of which is beveled, and furnished with small ribs or edges to draw corn through the machine and assist in shelling. As shown in Fig. 4, the side of the wheel B, running downward, is close to the side of the cylinder C, and the smallest end of wheel B is on a tangent with it. The vertical cylinder, with its pointed teeth, runs toward the ribbed edge of the wheel B, Fig. 4, the teeth turns the ears round and picks

off corn, while the ledges on the wheel B also rolls corn off the cob while drawing it through the machine. Corn is fed in through a spout and held up in the angle of the wheels B and C by a spring or equivalent device; and the combined action of the wheels so placed, both shelling and one drawing corn through, causes the work to be effectually as well as rapidly done.

It will be understood that the spring H, as shown in the drawing, is connected to the hopper by a hinge or otherwise, and may either act as a spring or a spring-bar. In some cases I may place an arm at the top of the bar and connect thereto a weight to control the bar and cause it to act against the ear of corn, or I may attach a coil-spring against the lower end of the bar for the same purpose, or both the spring and the weight may be used, if desired. In constructing the machine herein described, the cog-wheels which act upon and revolve the cylinder C and the beveled wheel B are both the same size, so that both are caused to revolve at the same speed to equalize the motion of the operating parts upon the ear of corn so as to prevent the choking or dragging of the ear when the corn is being shelled.

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

1. The combination of the spring-bar H, the vertically-operating toothed cylinder C, and the beveled wheel B having shelling-ribs on its periphery as described, all constructed and arranged to operate substantially as set forth.

2. The within-described corn-sheller, consisting of the toothed cylinder C, ribbed and beveled wheel B, spring-bar H, driving-wheel A, pinions *c c*, bevel-gears *a b*, and shafts E F, all mounted upon a suitable frame, and arranged to operate substantially as and for the purposes herein set forth.

HARMON W. CORNELL.

Witnesses:

H. A. BROOKS,
LYMAN SETTLE.