

L. Cutting

Pea Sheller

N^o 53956.

Patented Apr 17, 1866.

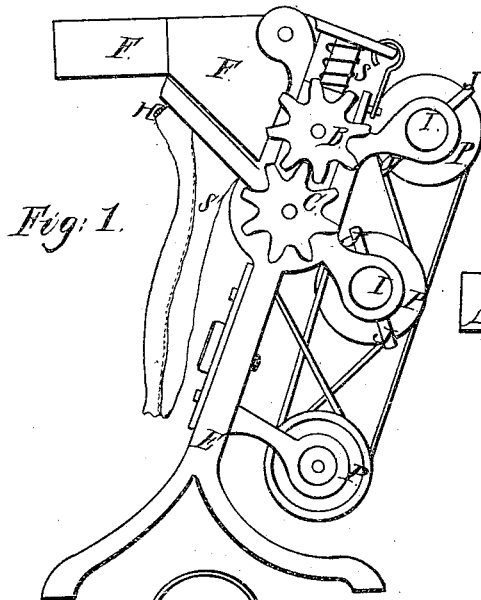


Fig: 1.

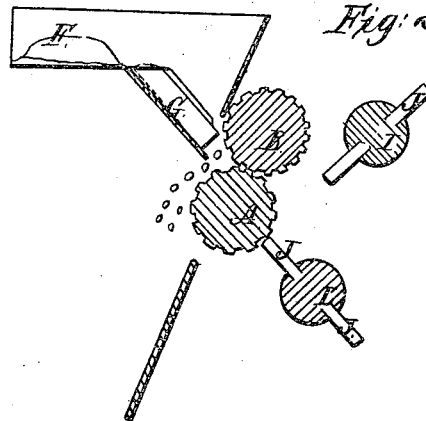


Fig: 2.

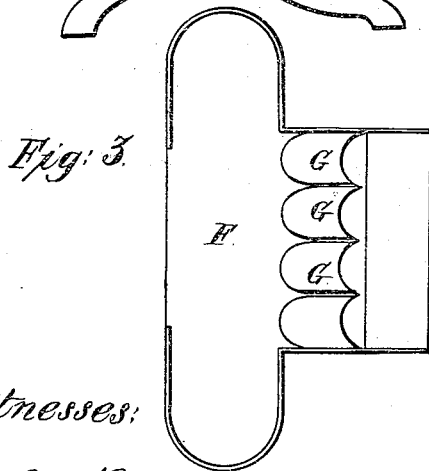


Fig: 3.

Witnesses:

C. W. Baynton
Wm Smith

Inventor:

Lewis Cutting
By his attys Dewey & Co

UNITED STATES PATENT OFFICE.

LEWIS CUTTING, OF SAN FRANCISCO, CALIFORNIA.

PEA AND BEAN SHELLER.

Specification forming part of Letters Patent No. 53,956, dated April 17, 1866.

To all whom it may concern:

Be it known that I, LEWIS CUTTING, of the city and county of San Francisco, State of California, have invented certain new and useful Improvements in Machines for Shelling Pease and Beans; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side view of my machine; Fig. 2, a section; Fig. 3, a view of feed-apron.

The nature of my invention relates to the employment of two rollers having hard surfaces corrugated or uneven. These rollers are connected by gearing with a shaft and crank, revolving brushes or cleaners being placed longitudinally with the rollers for the purpose of keeping them free from particles of pods which may by chance adhere to them.

To enable others skilled in the art to make and use my improved pea and bean sheller, I will proceed to describe its construction and operation, as follows—that is to say:

The machine consists substantially of a pair of hard rollers of the desired size—say six inches long and one inch in diameter—composed either of wood or metal, (shown in drawings by letters A B,) the former roller being driven by power and communicating motion to the latter, or B, by means of gearing C C.

The rollers are maintained in loose contact by means of springs ss acting upon the upper boxes, in which the rollers run. These rollers are mounted in a wooden frame, E, which supports also rollers I I and other appendages of the machine.

An apron, F, open at the back, receives the pods, which are thence fed into the grooves G G. These grooves are about one-fourth of an inch wide, more or less, and placed about one inch apart, constructed of iron, having type-metal cast upon them. They may, however, be made of other material. I prefer type-metal, as this composition does not gum up and is not affected by acids or rust, which greatly retard the operation of feeding.

The pods are fed into the machine by either of their ends, and, coming in contact with the rapidly-revolving rollers, are freed from all their berries, large and small, which fall back into a sack, S', attached to the hooks H H, while the pods pass through between the rollers and are delivered in front of them upon the floor of the room where the machine is operated.

The rollers I I driven by pulleys, P P P, and belts carry each two brushes, J J, of such length that their outer extremities come in contact at each revolution with the periphery of the rollers, and clear the corrugations of them from any particles of pods which may chance to adhere to them. These brushes revolve in opposite directions at a greater degree of speed than the rollers themselves. Consequently the rollers are constantly kept clean and free. The brushes may be made of broom-brush or bristles, or any other material of sufficient stiffness, or of any shape, if so be the desired object is accomplished. I prefer, however, to use bristles or broom-brush, as this is more convenient and desirable.

By the use of hard surfaces, corrugated or grooved, for my rollers, the small pease as well as the large ones are taken from the pods, while in other machines, where soft surfaces for rollers are made use of, the small pease are drawn in through the rollers and mashed or crushed with the pods, which is more especially the case on the Pacific coast, should such a machine with soft surfaces for rollers be put in operation there for the use above described, where in nearly every pod nearest to the stem small immature pease will be found, while at the opposite end of the same pod berries fully matured will be found.

I claim—

The combination and arrangement of the inclined feeding-apron F, rollers A and B, brushes J J, and sack S', the whole arranged for joint operation substantially as described, for the purpose set forth.

LEWIS CUTTING. [L. S.]

Witnesses:

C. W. M. SMITH,
ANSON F. CORNELL.