

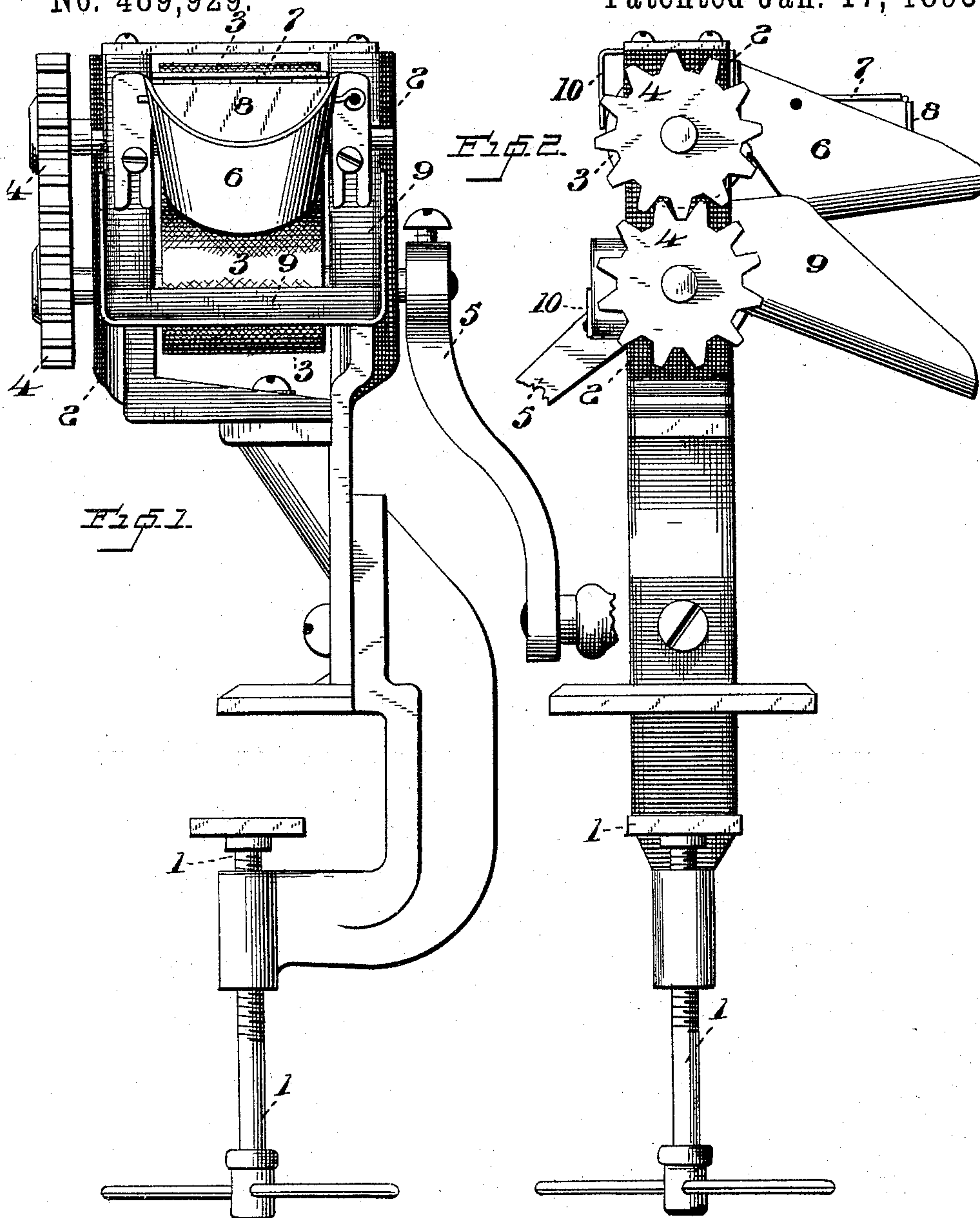
(No Model.)

2 Sheets—Sheet 1.

H. T. CLARK & C. B. RUSSELL.
PEA SHELLER.

No. 489,929.

Patented Jan. 17, 1893.



Witnesses
A. J. Tanner
C. M. Newman

Inventors,
Horace T. Clark,
Charles B. Russell
By *O. A. Hubbard*
Attorney

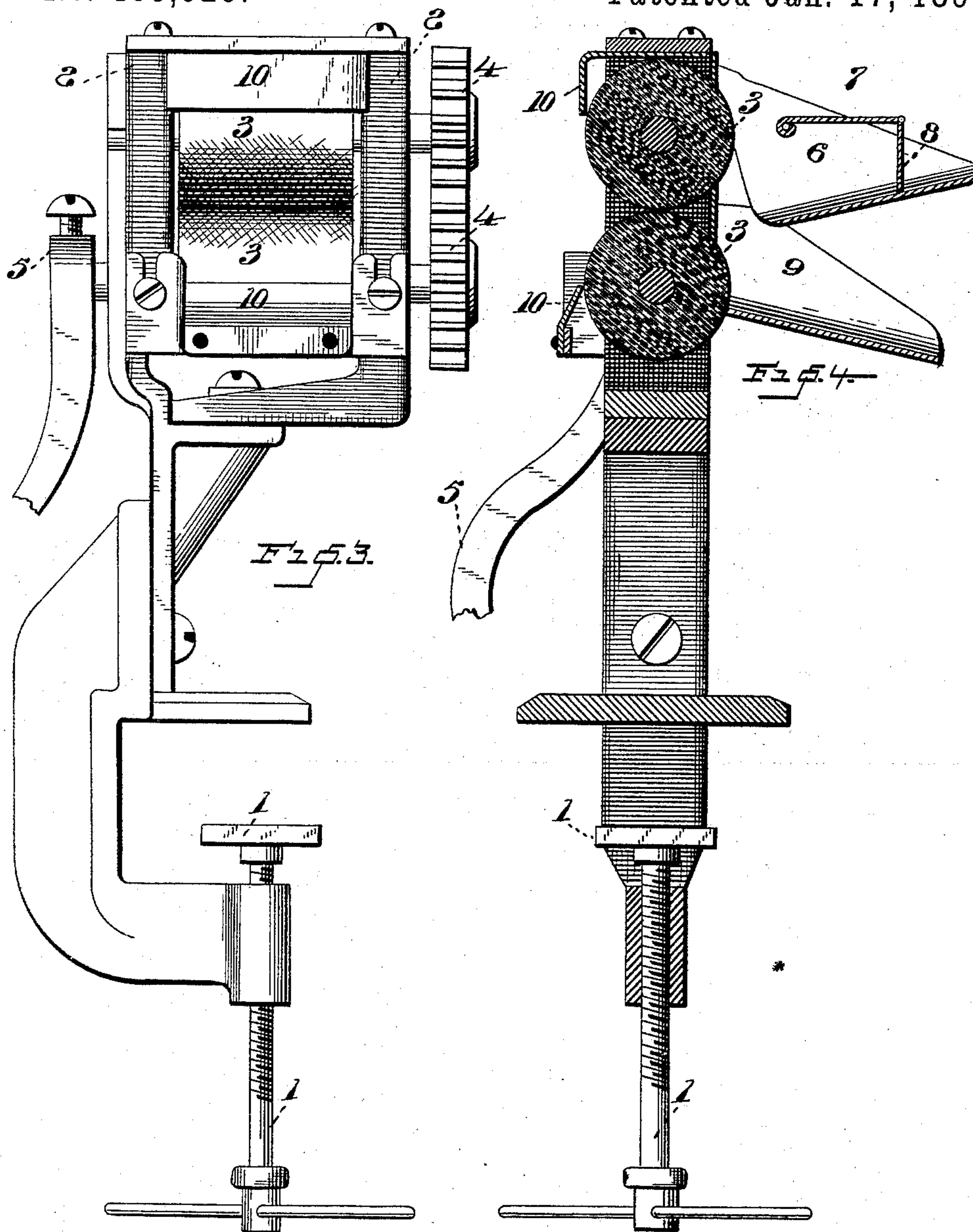
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UNITED STATES PATENT OFFICE.

HORACE T. CLARK AND CHARLES B. RUSSELL, OF BRIDGEPORT, CONNECTICUT.

PEA-SHELLER.

SPECIFICATION forming part of Letters Patent No. 489,929, dated January 17, 1893.

Application filed August 1, 1892. Serial No. 441,312. (No model.)

To all whom it may concern:

Be it known that we, HORACE T. CLARK and CHARLES B. RUSSELL, citizens of the United States, residing at Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Pea-Shellers; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in machines for shelling peas, beans and the like, but is more particularly designed and intended for shelling such vegetables in their green state; and the objects of the invention are to provide a simple and compact machine of novel construction through which the pod may be run and whereby the peas will be removed from the pods and deposited in a suitable receptacle, the pods being separately ejected, and with these ends in view our invention consists in the construction and combination of elements as will be hereinafter fully described and then recited in the claims.

In order that those skilled in the art to which our invention appertains may fully understand its construction and method of operation we will describe the same in detail, reference being had to the accompanying drawings which form a part of this specification, and in which,

Figure 1, is a front elevation, Fig. 2, a side elevation. Fig. 3, a rear elevation. Fig. 4, a vertical section.

The same numerals denote the same parts in each of the figures.

While the machine may be mounted upon any kind of a base, we prefer to provide it with a screw clamp 1 whereby it may be attached to a bench or table, and upon this clamp we secure the frame of the machine which consists of a pair of vertical standards 2 between which is journaled a pair of rollers 3 preferably of rubber. The faces of these rollers are very close together and their shafts at one side are geared together, as shown at 4, so that they will revolve at equal speeds. A cranked handle 5 attached to one of the shafts serves to operate the machine.

Secured to the face of the standards is a

hopper 6 whose open inner end is in reasonably close proximity to the meeting faces of the rolls, thereby serving as a guideway whereby the peas are conducted to said rolls. Inside this hopper, which is trough-shaped, is pivoted a gate consisting of two flaps 7 and 8 which are pivotally connected, the former serving as a sort of cover for the hopper, and the latter being adapted to swing vertically so that the pods may pass freely under it, but so that it will prevent the egress of the shelled peas. Beneath this hopper and also attached to the standards is a chute 9 into which the peas fall and whereby they are conducted to a box or other vessel adapted to receive them. I provide each roller with a scraper 10 located at the rear side of the machine with its edge lying in contact with the periphery of the roller, the purpose of this being to cleanse the rollers of any juice or pulp which they may express from the pod and which may adhere to them.

The operation of our invention is as follows: As the rollers are revolved by means of the crank the pea pods are shoved one after the other into the hopper in such manner that their ends will catch between the rollers which then draw the pod in. As the pod passes through between the rollers it is of course flattened and the peas forcibly ejected for the reason that they are of considerable size and will be separated from the pod by the expressing action rather than drawn through the rollers. As they are detached and separated they fall into the chute and thence are conducted to the pan or bowl arranged to receive them. The expressing of the peas is facilitated by the crushing of the pod whose inner surfaces become moist and slippery. The purpose of the gate is to arrest such peas as are thrown violently outward by the rollers and which rebound from the gate and roll down the hopper into the chute instead of flying upward and outward through the hopper onto the floor or table. The pods pass onward through the rollers and drop on the other side.

By means of this machine not only are the peas or beans separated from the pod without crushing or damage, but the operation is very quickly and easily done, saving much time over the common hand process of shelling.

Furthermore the peas and the pods are deposited in separate places and therefore require no sorting.

We claim,

- 5 1. In a pea-shelling machine, the frame, the standards 2 upon said frame, the flexible pea-shelling rolls 3 secured between said standards, and mechanism to rotate them, in combination with the feeding hopper 6 having the
10 gate pivoted therein, consisting of the two flaps pivoted together as and for the purpose described, and the delivering chute 9 located beneath the hopper 6, all combined substantially as and for the purpose specified.

2. In a pea-shelling machine, having the 15 flexible rolls 3, hopper 6, with the two-part hinged gate 7, 8, and the chute 9, the combination with the rolls, of scrapers 10 bearing against said rolls to dislodge any adhering substances, substantially as and for the pur- 20 pose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

HORACE T. CLARK.

CHARLES B. RUSSELL.

Witnesses:

S. H. HUBBARD,

A. J. TANNER.