June 2, 1931. B. I. MANGES 1,808,470

PEA SHUCKER

Filed May 15, 1930

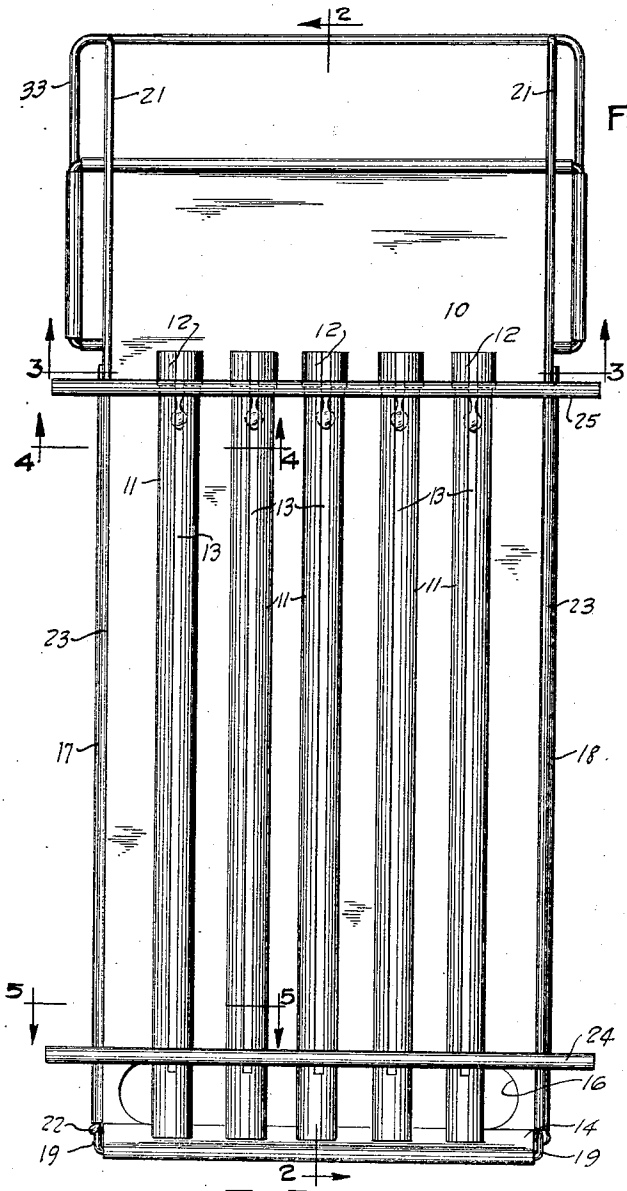


FIG. 1

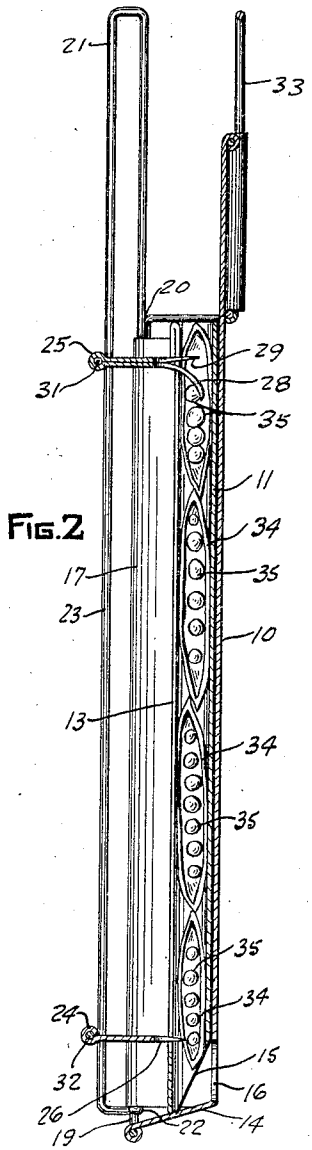


FIG. 2

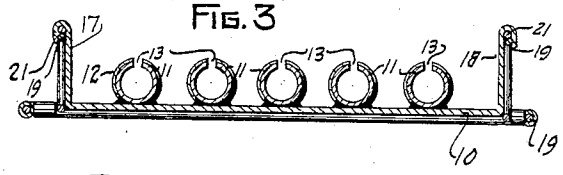


FIG. 3

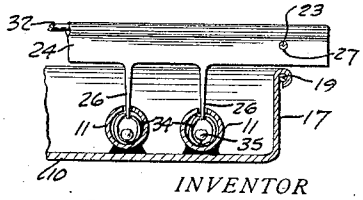


FIG. 4

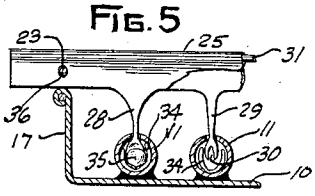


FIG. 5

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PEA SHUCKER

Application filed May 15, 1930. Serial No. 452,659.

This invention relates to pea shuckers, and it has for its purpose the provision of a utensil by means of which it will be possible to split the pea pods and remove the peas from the split pods in quick order, and with a minimum of labor.

The device is characterized by the simplicity of its structure, and the thoroughness in which it performs its functions.

The above named and other features and advantages of the invention will more fully appear from the following specification, reference being had to the accompanying drawings, in which:

Fig. 1 is a top plan view of the invention.

Fig. 2 is a sectional view taken on line 2—2 of Fig. 1.

Fig. 3 is a transverse section taken on line 3—3 of Fig. 1.

Fig. 4 is a partial section taken on line 4—4 of Fig. 1.

Fig. 5 is a partial section taken on line 5—5 of Fig. 1.

Referring to the drawings: The frame of the invention comprises a back plate designated at 10, mounted upon which are a number of hollow tubes 11 soldered or otherwise fastened in a fixed position, and the said tubes 11 are reinforced at the upper end by a downturned portion 12, the whole tube then being slotted at 13 from the top to within say an inch of the lower end which rests against the inner wall of the upturned flange 14 of the plate 10, and the lower end of the tube 11 is angularly cut away on the under side at 15 and directly over a slot 16 in the plate 10. Side walls of the plate are also upturned as at 17 and 18, and the entire frame is reinforced by the wire 19 which is held in position by peening the edges of the plate 10, bottom flange 14 and the side walls 17 and 18 over the wire and soldering it in place. The wire 19 bends downward at 20 to enclose the upper portion of the plate 10 and a second wire 21 is attached to the reinforcing wire 19 at 20 and is then carried up to beyond the plate 10 then bent upwards and backward to the base of the plate 10 where it is again fastened to the reinforcing wire 19 at 22, thus forming guides 23 upon which the pod opener 24 and the releaser 25 are mounted.

The pod opener 24 is formed from a flat sheet of metal cut at sufficient intervals to form the cutting points 26 which fit within the slots 13 in the top of the tubes 11 the said pod opener 24 being mounted on the guides 23 which extend through the apertures 27 in the pod opener 24 thus allowing the pod opener to move freely upon the said guides.

The releaser 25 is formed of a double sheet of metal one portion forming spoon shaped projections 28 cut out the same number of times as the pod opener 24 and fitting within the slots 13 in the same manner only nearer the top of the guides 23. The other portion of the releaser 25 is shaped in a similar manner except that the projections 29 are shorter, more straight and split at the end 30 thus forming a prong for the removal of the empty pods.

The releaser 25 and the pod opener 24 are each turned over a reinforcing wire 31 and 32 at the top.

A secondary wire 33 is attached to the reinforcing wire 19 within the peened over edge of the plate 10 and projects out beyond the plate 10 to the same distance as the guides 23, forming a handle.

In operation the pods 34 are thrust into the tubes 11 by the downward motion of the hand, the releaser 25 is pressed down to keep pods intact during operation of the pod opener 24. The pod opener 24 which rests at the base of the tubes 11 is then drawn upward slitting the pods 34 and coming to rest below releaser 25. Both are then drawn downward, the spoon shaped projections or fingers 28 scooping the peas 35 from the pods 34 and dropping them through the slot 16. The releaser 25 is then pivoted as far backward as possible on the guides 23 by means of the slot 36 in the releaser 25, thus moving the spoon shaped projections 28 up out of the way and pushing the prongs 29 downward, then as the releaser is again pushed up to the first position the prongs engage the empty pods and draw them upward and out at the top, discharging them from the tubes 11.

I claim:

1. A pea shucker comprising a frame having guides at the sides, a set of slotted tubes fixed to the frame, a slitter extending across the tubes and movable along said guides and having points projecting through the slots into the tubes to split pods therein, and a discharger extending across the tubes and movable along the guides and having fingers projecting through the slots to discharge peas from the split pods.

2. A pea shucker as in claim 1, the discharger also having prongs engageable with the pods to dislodge the same from the tubes by reverse movement of the same.

3. A pea shucker comprising an elongated slotted tube capable of holding a plurality of pea pods in line, a slitter movable along the tube and projecting through the slot to slit all the pods at one stroke, and a discharger movable along the tube and having a projection extending through the slot to remove the peas from the pods when moved in one direction, the discharger also having a prong projecting through the slot and engageable with the pods to dislodge the same from the tube when moved in the opposite direction.

4. A pea shucker comprising a plurality of elongated parallel slotted tubes in each of which a plurality of pea pods may be placed, a slitter extending across the tubes and having a plurality of cutting points extending through the slots in the tubes respectively to split pods therein, said slitter being movable lengthwise along the tubes, and a discharger extending across the tubes and movable lengthwise thereof and having fingers projecting through the slots to dislodge peas from the pods by movement in one direction, the discharge also having prongs projecting through the slots and adapted to discharge pods from the tubes by reverse movement of the discharger.

5. A pea shucker comprising a frame having a pair of spaced parallel guides, a plurality of parallel elongated slotted tubes between said guides, a slitter plate movable along the guides in front of the tubes and having points projecting through the slots to slit pods in the tubes, and a discharger plate movable along the guides in front of the tubes and having fingers working through the slots to discharge the peas from the pods.

6. A pea shucker as in claim 5, the discharger plate also having prongs projecting through the slots and adapted to discharge pods from the tubes by reverse movement of the plate.

In testimony whereof, I do affix my signature.

BEATRICE I. MANGES.