April 8, 1947. G. D. EVERNDEN 2,418,581

BEAN AND PEA POD SPLITTER

Filed Oct. 10, 1945

Fig. 1.

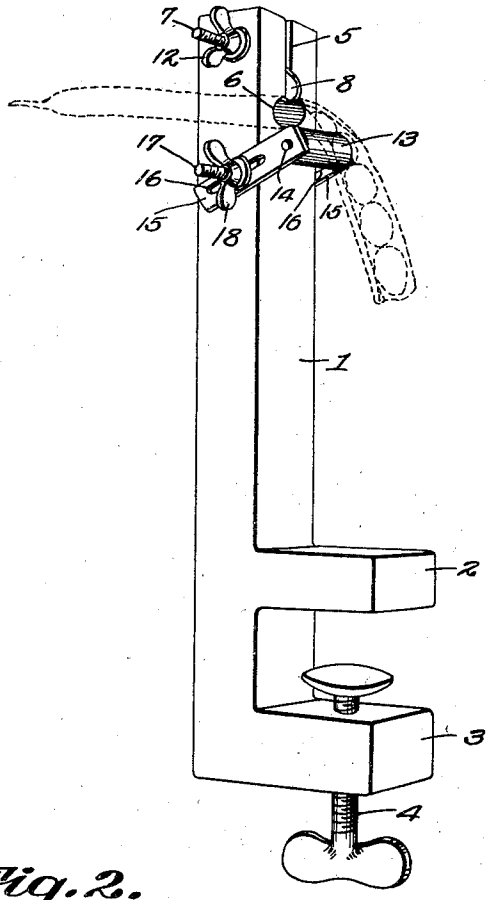
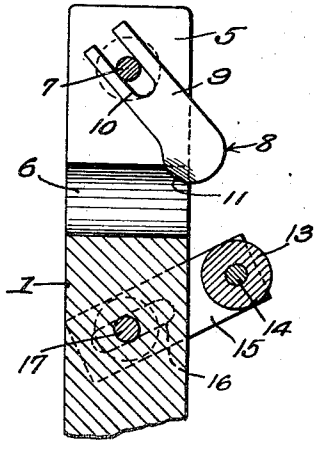


Fig. 2.



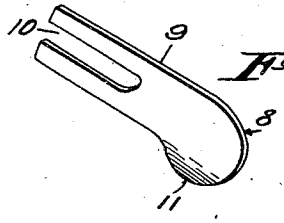


Fig. 3.

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BEAN AND PEA POD SPLITTER

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1 Claim. (Cl. 130—30)

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The present invention is directed to improvements in bean and pea pod splitters to expedite the shelling thereof.

The primary object of the invention is to provide a device of this character so constructed that bean or pea pods may be expeditiously split in order that the kernels may be conveniently removed, and without injury thereto.

Another object of the invention is to provide a device of this nature so constructed that it can be conveniently clamped on a table, and when thus mounted the bean or pea pods can be successively passed through a feed opening and subjected to the splitting action of a blade.

Another object of the invention is to provide a device of this type wherein the splitting blade may be conveniently adjusted as desired.

Still another object of this invention is to provide a device of this character wherein a roller is adjustably mounted adjacent the exit end of the feed opening in order that the pods passing therefrom will be compelled to pass thereover so that they may be grasped and pulled downwardly, when being subjected to the splitting action of the blade.

Still another object of the invention is to provide a novel form of splitting blade.

Figure 1 is a perspective view of the device.

Figure 2 is a partial vertical sectional view through the upper portion of the blade supporting post.

Figure 3 is a detail view of the splitting blade.

Referring to the drawing, 1 designates a post having jaws 2 and 3 formed thereon, the latter having a clamping screw 4 carried thereby in order that the post can be clamped upon a table or other suitable support.

The post 1 has formed in its upper end a slot 5, the lower end of which opens into the feed opening 6 which extends transversely of the post.

A clamping bolt 7 is engaged in the post adjacent its upper end and is disposed at right angles to the axis of the feed opening 6, the purpose of which will appear later.

The splitting blade 8 comprises a shank 9 having formed therein a slot 10. The shank 9 has formed therein an arcuate cutting or splitting edge 11, which when in its operative position is disposed at the discharge end of the feed opening 6.

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To install the blade it is only necessary to place the shank thereof in the slot 5 and pass the clamping bolt 7 through the slot 10. Obviously upon manipulating the wing nut on the bolt 7 the blade may be held in various adjusted positions.

A roller of suitable material 13 is provided and is journaled on a spindle 14, said spindle having its ends rotatable in the free ends of the supporting plates 15, said plates having formed therein longitudinal slots 16.

Passing through the post 1 below the feed opening 6 is a clamping bolt 17, said bolt being engaged in the slots 16 of the respective plates 15, there being a wing nut 18 on said bolt and manipulatable to hold the plate in various clamped positions on the opposite sides of the post 1.

The post 1 may be formed of any suitable material such as plastic, metal or wood.

To adjust the splitting blade 8 it is only necessary to swing the same to selected position of adjustment and due to the inherent resiliency of the post in the area of the slot 5, said blade can be firmly clamped upon manipulating the wing nut 12 on the bolt 7 in an obvious manner.

To adjust the position of the roller 13 relative to the opening 6, the plates 15 are swung to selected positions and upon manipulating the wing nut 18 the plates 15, and thus the roller will be maintained in a firm position of adjustment.

The device is particularly designed for splitting the pods of beans or peas which are oftimes twenty inches in length, and to shell species of this kind solely by hand is a tedious and slow operation, and it is to overcome such objections that the present invention has been devised.

Briefly the operation is as follows:

The pods to be split are successively forced through the feed opening 6 and as they pass therethrough they are split lengthwise along the uppermost surfaces by the arcuate splitting adge 11. As they pass from the feed opening 6 they engage the upper periphery of the roller 13 and as they leave the opening they are grasped and pulled downwardly which operation tends to fully open the pod in order that the kernels may then be quickly and conveniently removed.

From the foregoing it will be seen that a device has been provided whereby beans and peas can be easily and quickly shelled in an extremely practical and simple manner.

What is claimed is:

A device of the class described, comprising a post having a central feed opening extending transversely therethrough, said post having a longitudinal slot therein above and opening at its lower end into the feed opening, a pair of parallel plates slidably and adjustably mounted on opposite sides of the post in a plane parallel to the axis of the feed opening, a roller outside of the post and journaled between the plates and extending transversely of the feed opening adjacent the lower edge of the same, a splitting blade having a cutting edge mounted in the slot of the post, and means for holding the blade in adjusted positions in the slot with its cutting edge extending into the upper portion of the feed opening at a point opposed to said roller, said blade operating to split an article as it passes from the feed opening and engages the roller.

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