B. C. COONS.

PARING MACHINE.

APPLICATION FILED SEPT. 28, 1916.

1,269,390. Patented June 11, 1918.

Fig. 1.

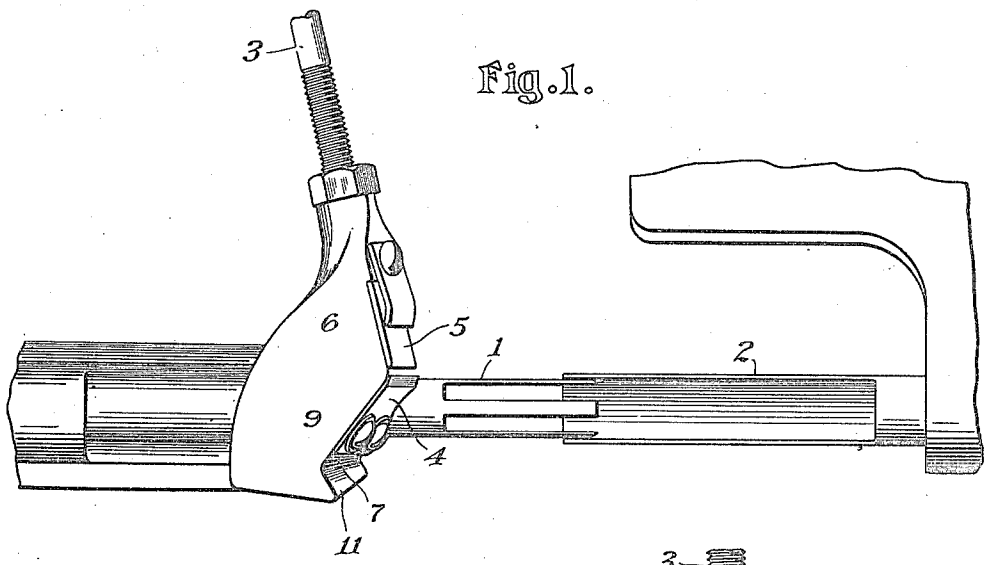


Fig. 2.

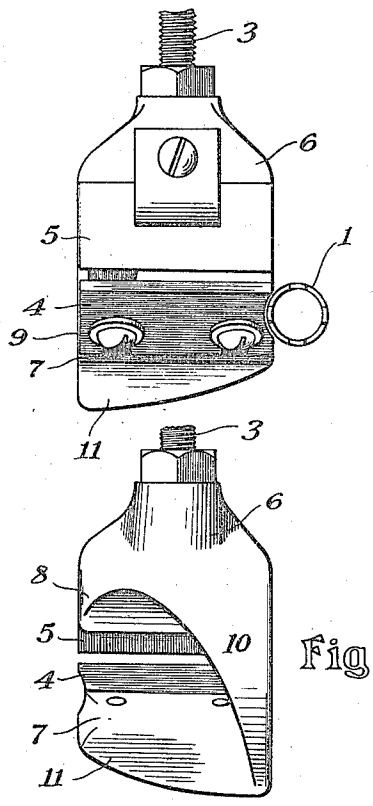


Fig. 3.

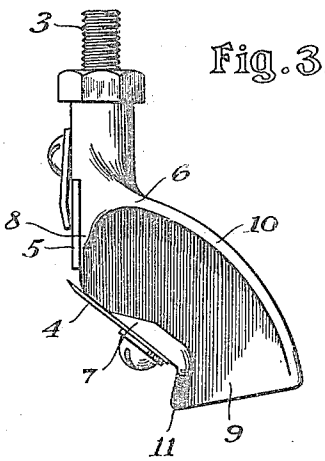


Fig. 4.

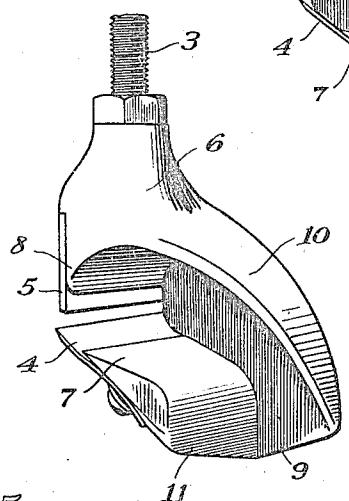


Fig. 5.

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UNITED STATES PATENT OFFICE.

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PARING-MACHINE.

1,269,390. Specification of Letters Patent. Patented June 11, 1918.

Application filed September 28, 1916. Serial No. 122,641.

To all whom it may concern:

Be it known that I, BURTON C. COONS, a citizen of the United States, and resident of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Paring-Machines, of which the following is a specification.

The present invention relates to paring machines and more particularly to the type in which the article to be pared is supported on a rotary fork or other device and is acted upon by a knife which travels in a curved path while the fork is turning so that all portions of the article are caused to be operated upon by the knife, a machine of this kind being disclosed in my prior Patent #1,168,788, dated January 18, 1916.

In the use of such machine it has been found that the knife becomes clogged by parings and stems due to the collection of the latter in the narrow space or throat between the blade and the guard and as a consequence the action of the knife becomes defective and does not properly pare the apples. Another disadvantage of previous knives is that the discharged parings in their fall are not controlled and as a consequence it is impossible to maintain them separated from the pared apples.

This invention has for an object to provide a construction in which the paring and the stems will not clog the knife, thus insuring a more perfect paring action. Another object of the invention is to provide a knife that will direct the parings downwardly so that they will be discharged to one side of the point of discharge of the apples or other pared articles.

To these and other ends, the invention consists of parts and combinations of parts, all of which will be hereinafter described, the novel features being pointed out in the appended claims.

In the drawings:—

Figure 1 is a view showing the position of the knife as it starts on its curved path, the corer and rotary supporting fork being also shown;

Fig. 2 is a front view of the knife;

Fig. 3 is a side view of the open side of the knife;

Fig. 4 is a perspective view of the knife on the open side; and

Fig. 5 is a rear view of the knife.

Referring more particularly to the drawings, 1 indicates the rotary fork which turns the apple during the paring, and 2 the corer which penetrates the apple after the paring and carries the apple from the fork, all of which are known in this art. The knife is supported by a stem 3 which is moved in any suitable manner to carry the knife in a curved path, as for instance in the manner shown in my prior patent previously mentioned.

The knife comprises a blade 4, and a guard 5 arranged in slightly spaced relation to the blade and at a slight angle to the latter, both of said elements being supported by a head 6 which forms the feature of this invention. This head is so formed that a passageway is provided at one side through which stems and parings may pass from one end of the blade.

In this embodiment of the invention, this head comprises a blade supporting portion 7 and a guard supporting portion 8 connected together at one end in spaced relation by an end wall 9 and unconnected at their other ends. The side wall 9 extends rearwardly from both the blade supporting portion and the guard supporting portion, and a deflector 10 extends rearwardly and downwardly from the guard supporting portion to a point below the throat between the blade supporting portion and the guard supporting portion, said deflector 10 having one side joining with the side wall 9 and its other side converging toward said side wall. A strengthening rib 11 may be provided along the lower edge of the blade supporting portion 7, this rib converging toward the free end of the blade supporting portion and having its other end connected to the side wall 9. The form and the arrangement of the deflector 10, the side wall 9, and the blade supporting wall 8 are such that a chute is provided which discharges the parings downwardly. This chute opens laterally so that parings and stems will not collect therein or in the space between the knife and the guard. Although the blade support is only supported at one end it connects with the end wall 9 in such a manner that great strength is secured.

The passageway for the parings and stems is preferably provided on that side of the knife which coöperates with the inner end of the fork 1, as the stem end of the apple is usually placed on the fork first, leaving the blossom end at the outer end of the fork,

It is also preferred to notch or recess the blade 4 at the side having the passageway and project the notched end of the blade beyond the blade support. This permits the blade to snugly fit about the fork with its upper edge substantially in line with the uppermost line of the fork.

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

1. In combination in a knife for paring machines, a head having a throat provided with a mouth which opens at one side of the head, the opening in said side being as wide as the mouth, a guard detachably secured to the exterior of the head and projecting over the mouth, and a blade detachably secured exteriorly of the throat and projecting over the mouth, the guard and the blade extending to the open side of the head.

2. In combination with a fork on which the article to be pared is supported, a knife movable in a curved path from the inner end to the outer end thereof, and comprisng a blade, a guard and a head supporting the guard and the head having an opening in the side which coöperates with the inner end of the fork, through which opening the parings and stems may pass.

3. The combination in a knife for paring machines, a head having a guard supporting portion and a blade supporting portion spaced apart between their ends and also at one of their ends, the distance between the ends of said portions being at least as great as any portion between their ends; a flat guard secured to the guard supporting portion to overhang said space, and a flat blade secured to the blade supporting portion to overhang said space.

4. In combination in a knife for paring machines, a head having a guard supporting portion and a blade supporting portion spaced apart between their ends and also at one of their ends, their other end being connected, a guard on the guard supporting portion, and a blade on the blade supporting portion projecting slightly beyond the free end of said portion and formed with a notch to fit snugly about the fork of a paring machine.

5. In combination in a knife for paring machines, a head comprising a guard supporting portion, a blade supporting portion spaced from the guard supporting portion between its ends, and also at one end, a side wall connecting the other ends of the guard and the blade supporting portion and extending rearwardly from said parts, and a deflector extending rearwardly and forwardly from the guard supporting portion and connected at one side of the side wall, a flat guard secured to the guard supporting portion to overhang the space and extending at least to the free end of the supporting portion; and a flat blade secured to the supporting portion to overhang the space and extend at least to the free end of the blade supporting portion.

BURTON C. COONS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."