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Patent Search

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Abstract:

The present invention generally relates to the field of agriculture and in particularly relates to a method and device that used for tea harvesting. In an embodiment, a for plucking natural leaves is provided. The apparatus includes the steps of: a first section comprising a horizontal top portion fixedly placed between a first and second aligned portions; a first blade is securely positioned between lower ends of the first and second vertically aligned portions and parallel to the horizontal top portion; a second section in a form of a handle is fixedly coupled to the first section along the first vertically aligned portion; a slider crank mechanism positioned between the first and second section, wherein the slider crank mechanism comprising a crank coupled to a crank shaft coupled to the second section, a connecting rod having a first end coupled to a first end of a second blade, wherein the second blade reciprocates over the first blade when the slider crank mechanism is in operation; said reciprocation causes plucking of the leaves from the stem; and a blower machine configured to deliver regulated air flow toward the first blade and the second blade. A plurality of nozzles positioned on a bottom surface of the horizontal top portion.

Complete Specification

Claims:We claim:

1. An apparatus for plucking natural leaves, the apparatus comprising:
 - a first section comprising a horizontal top portion fixedly placed between a first and second vertically aligned portions;
 - a first blade is securely positioned between lower ends of the first and second vertically aligned portions and parallel to the horizontal top portion;
 - a second section in a form of a handle is fixedly coupled to the first section along the first vertically aligned portion;
 - a slider crank mechanism positioned between the first section and the second section, wherein the slider crank mechanism comprising a crank coupled to a crank pin coupled to the second section, a connecting rod having a first end coupled to the crank and a second end coupled to a first end of a second blade, wherein the second blade reciprocates over the first blade when the slider crank mechanism is in operation and said reciprocation causes plucking of the leaves from the stem; and
 - a blower machine configured to deliver regulated air flow toward the first blade and the second blade through a plurality of nozzles positioned on a bottom surface of the horizontal top portion.
2. The apparatus as claimed in claim 1, wherein the second blade has a second end and the lower end of the first section has an opening to support a movable coupler wherein the movable coupler is adapted to hold the second end of the second blade.

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