

(54) Title of the invention : AUTOMATIC FRUIT JUICE EXTRACTING DEVICE

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(57) Abstract :

The present invention relates to an automatic fruit juice extracting device comprising of, a chamber 1 configured with a first sorter conveyer 2 provides a platform to place multiple fleshy fruits and sort the fruits based on predefined parameters, a moisture sensor for sensing moisture level of the fruitsThe present invention relates to an automatic fruit juice extracting device comprising of, a chamber 1 configured with a first sorter conveyer 2 provides a platform to place multiple fleshy fruits and sort the fruits based on predefined parameters, a moisture sensor for sensing moisture level of the fruits, a hyperspectral imaging sensor 3 for detecting quality of the fruits, a microcontroller on receiving combined signals from the sensors 3 generates a command to the sorter conveyer 2 to sorts the fruits, a peeler 4 in combination with a slicer 5 for peeling and slicing the sorted fruits, an enclosed vessel 6 integrated with motorized blade 7 and iris door 8 for extracting juice from the sliced fruits, wherein the iris door 8 prevents splashing of juice while the extraction, a collecting unit 9 for collecting the extracted juice Ref Figure 1 , a hyperspectral imaging sensor 3 for detecting quality of the fruits, a microcontroller on receiving combined signals from the sensors 3 generates a command to the sorter conveyer 2 to sorts the fruits, a peeler 4 in combination with a slicer 5 for peeling and slicing the sorted fruits, an enclosed vessel 6 integrated with motorized blade 7 and iris door 8 for extracting juice from the sliced fruits, wherein the iris door 8 prevents splashing of juice while the extraction, a collecting unit 9 for collecting the extracted juice Ref Figure 1

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