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(54) Title of the invention : FRUIT SEGREGATION DEVICE

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(57) Abstract :
An automatic fruit segregation device, comprises of a housing 1 having a chamber 2 to store plurality of fruits of a similar type and installed with multiple motorized iris operated lids 3 that opens up for allowing moving out of fruits, a primary artificial intelligence enabled image capturing module 4 for capturing multiple images of different sized fruits, plurality of flexible funnel type members 5 installed with a hydraulic arrangement 6 to regulate widening gaps of members 5, plurality of conveyer belts 7 that are dedicated towards collection of segregated fruits and in turn facilitates dropping down of fruits upon loosening grip with members 5; and plurality of containers 8 arranged with secondary artificial intelligence cameras 9 to determine quality and ripening level of fruits and in case quality and further directs a telescopic gripper 10 to grip and poor quality and raw fruits into a vessel.

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