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(57) Abstract :

An automated juice extraction device, comprising a housing 1 configured with a chamber 2, an opening for placing fruits/vegetables within chamber 2, a touch interactive display panel 3 for enabling user to input details regarding quantity of juice, a pair of robotic grippers 4 for gripping and positioning one of fruit/vegetable, an artificial intelligence based image capturing module 6 for capturing and processing images of fruit/vegetable, a telescopic rod 7 configured with a laser acuity sensor 16 for extending and positioning sensor 16 in close proximity to fruit/vegetable, an expandable ring 8 configured with plurality of sliding units 9 for extending/retracting to position sliding units 9 around fruit/vegetable, and a telescopic blade 11 for slicing peeled fruit/vegetable in two halves to grip and press halves against a pair of perforated conical members 12 for squeezing juice from vegetables/fruits that is further collected in a container 13.

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