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(57) Abstract :

A reliable pouring assistive device, comprises of a circular platform 1 developed to be positioned in proximity to a container having a circular mouth portion, an artificial intelligence-based imaging unit 2 for capturing and processing multiple images in vicinity of the platform 1, a motorized expandable pulley arrangement 3 to expand/retract as per the determined dimensions of the container, plurality of suction cups 4 for securing the container on the platform 1, a conical member 5 having plurality of plates 6 for increasing/decreasing length of the member 5, multiple motorized hinges 7 to provide converging/diverging movement to the plates 6, an iris lid 9 to get opened/closed for allowing liquid stored in the container to get poured in the tray 8, plurality of Peltier units 10 to provide an optimum heating effect to the container.

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