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(57) Abstract :

A water saving faucet device, comprising a faucet body 101 with a conical structure, a plurality of small pores 102 for water passage, a manual control knob 103 for manual operation, at least one infrared (IR) proximity sensor to detect user proximity and to initiate automated water dispensing, a motorized solenoid valve 104, under electronic control, to open and close to regulate water flow, a plurality of miniature to precisely adjust plate 107 positions so as to vary an effective dispensing diameter between a narrowed focused stream and a widened coverage pattern, an artificial intelligence (AI) camera 108 to classify dishes in real time according to at least material, size, and shape, a speaker to notify a user when water quality falls below a predefined standard, and a utensil dryer unit 109 positioned so that freshly washed utensils are dried in place.

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