पेटेंट कार्यालय शासकीय जर्नल

OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 13/2022 ISSUE NO. 13/2022

शुक्रवार FRIDAY दिनांकः 01/04/2022

DATE: 01/04/2022

पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

(19) INDIA

(22) Date of filing of Application :25/03/2022

(43) Publication Date: 01/04/2022

(54) Title of the invention: SYSTEM AND METHOD FOR AUTOMATED CLEANING OF DISHES

(51) International classification (A47L0015000000, H01R0012520000, B28B0011040000, A21C001500000, B28B0011040000, A21C0015000000, B08B0001000000 (86) International Application ·PCT// No :01/01/1900 Filing Date (87) International Publication : NA (61) Patent of Addition to :NA Application Number :NA Filing Date (62) Divisional to Application :NA Number ·NA Filing Date

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Exemplary embodiments of the present disclosure are directed towards a system for automated cleaning of dishes with a programmable open-source microcontroller board to take the instructions from the system by connecting with digital input pins and digital output pins and analog pins; a liquid-crystal display (LCD) which is a flat-panel display and an electronically modulated optical device that uses the light-modulating properties of liquid crystals combined with polarizers to display the relevant data in the front of the system; an infrared sensor with its signal conditioning circuit to sense some aspects of the surroundings and the sensor measures the heat of an object as well as detects the motion and the infra-red radiation is measured and the signal conditioning circuit is used for counting the uncleaned dishes that have been placed in the dishwasher and the location accuracy of their placement is sensed; a water pump connected to the open-source microcontroller board 104, whereby water is supplied with pressure and sprinkled with great force on the unclean dishes loaded; and a DC motor connected to the programmable open-source microcontroller board and the DC motor works to run a conveyor belt and a scrubber and cleaner where the conveyor belt consists of plurality of pulleys with a closed loop that rotates about them and helps in carrying the uncleaned dishes and the scrubber and cleaner are put to work with the help of the DC motor to scrub and clean the plurality of unclean dishes, FIG. 1

No. of Pages: 17 No. of Claims: 5