

(54) Title of the invention : AUTOMATED SKATEBOARD MAINTENANCE DEVICE

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(57) Abstract :
 An automated skateboard maintenance device, comprising a housing 1 configured with a tray 2 positioned outside housing 1 for allowing a user to place skateboard, a touch enabled screen installed on housing 1 to give input commands for carrying out maintenance of skateboard, a pair of motorized sliding units 4 configured with tray 2 for translating and positioning tray 2 within housing 1, a camera 7 mounted within housing 1 for capturing multiple images of platform 6, a set of L-shaped telescopically operated pushers 8 to extend for gripping skateboard on platform 6, a first robotic arm 9 for unscrewing nuts fixed with wheels via wrench 10, a two-axis lead screw arrangement 14 for providing a suitable bi-directional motion to rod 12, and a second robotic arm 17 installed within housing 1 for scrubbing wheels via a brush 18.

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