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(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Sarabjit Singh
(33) Name of priority country	:NA	2)Kushdeep Singh
(86) International Application No	:NA	3)Anikate Gupta
Filing Date	:NA	4)Kuldeepak Saini
(87) International Publication No	: NA	5)Arvind Kumar
(61) Patent of Addition to Application Number	:NA	6)Pardeep Kumar
Filing Date	:NA	7)Nanish Magotra
(62) Divisional to Application Number	:NA	8)Saurabh Patel
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(57) Abstract :

An automatic tire cleaning device, comprising a platform 1 fabricated with a primary artificial-intelligence enabled image-capturing module 2 in synchronization with an ultrasonic sensor 3 for detecting a tire's 12 location, a set of motorized omnidirectional wheels 4 arranged underneath the platform 1 for maneuvering, multiple nozzles 5 incorporated to platform 1 for spraying cleaning solution, a pole 7 including a slit is secured on the platform 1 enclosing a lead screw arrangement 8 associated with a motorized linear actuator 9 that allows translation of a bar 10 configured to actuator 9 over the arrangement 8 to align the bar 10 in proximity to the tire 12, a secondary module 13 arranged on the bar 10 detects diameter of wheel, a pair of telescopic rods 14 configured on bar 10 secures cleaning head having combination of bristles 15 and sponge 16 for cleaning of tire 12.

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