

(54) Title of the invention : SOLAR POWERED LAWN MOWER DEVICE

<p>(51) International classification :A01D0034000000, H02S0020320000, G01S0015930000, G01S0007521000, B60L0008000000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)CGC Technical Campus Jhanjeri Address of Applicant :State Highway 12A Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307, India. Punjab India</p> <p>(72)Name of Inventor : 1)Shiv Shankar Pandey 2)Varinder Singh 3)Divyansh Singh Guleri 4)Sajan</p>
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(57) Abstract :

The present invention relates to a solar powered autonomous lawn mower device comprising of a chassis 1 made up of CPVC pipe to provide a platform for the device, a solar panel 7 mounted on the chassis 1 to absorb solar energy from the sun and generate electrical energy, wherein generated electrical energy is stored in a battery 8, a ultrasonic sensor for detecting obstacles in front of the device, a microcontroller 10 incorporated inside chassis 1 coupled with ultrasonic sensor to determine electronic data and direct actions accordingly, at least two DC motor electrically connected to microcontroller 10 to provide movement to the device, at least two ultrasonic sensor 6 paired with the microcontroller 10 to detect and sense obstruction and aid in maneuverability to the device and at least one spiral roller blade 5 connected to first DC motor to pull and chop grass into tinier pieces.

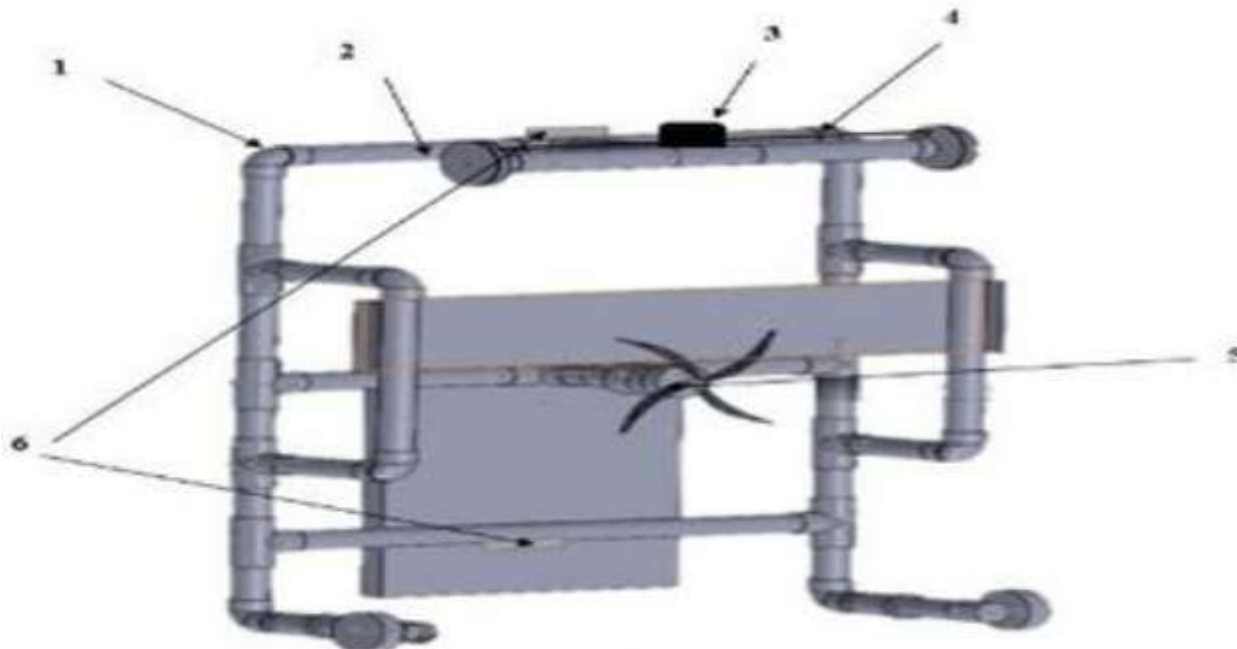


Figure 1