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| (51) International classification             | :A01D<br>34/00,<br>H02J 7/35,<br>B25J 11/00,<br>B25J 5/00,<br>A01D<br>34/63 | (71)Name of Applicant :<br><b>1)RATHINAM ANGAMUTHU</b><br>Address of Applicant :Ammamet, Salem Tamil Nadu India<br><b>2)Paavai Engineering College</b><br><b>3)Dr.Balaji G</b> |
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| (32) Priority Date                            | :NA                                                                         | <b>2)Vinayaga Murthy J</b>                                                                                                                                                     |
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| (61) Patent of Addition to Application Number | :NA                                                                         | <b>7)Kumarakrishnan V</b>                                                                                                                                                      |
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(57) Abstract :

This invention introduces a solar-powered autonomous grass removal robot that integrates renewable energy with intelligent automation to provide a sustainable solution for lawn and agricultural maintenance. The robot is equipped with solar panels, rechargeable batteries, sensors, and cutting blades, enabling it to operate independently without human supervision. It navigates autonomously, detects obstacles, and trims grass efficiently while maintaining eco-friendly operation. Designed for versatility, the robot is suitable for residential, commercial, and agricultural applications, offering reduced costs, minimal environmental impact, and enhanced convenience. Its innovative combination of solar energy utilization and robotic automation makes it a significant advancement in sustainable agricultural and landscaping technology.

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