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(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Adarsh Giri
(33) Name of priority country	:NA	2)Yash Kumar Giri
(86) International Application No	:NA	3)Kaustav Pal
Filing Date	:NA	4)Avik Agarwala
(87) International Publication No	: NA	5)Alik Agarwala
(61) Patent of Addition to Application Number	:NA	6)Sagnik Bhattacharya
Filing Date	:NA	7)Soumyajit Ghosh
(62) Divisional to Application Number	:NA	8)Palash Das
Filing Date	:NA	9)Subrata Mondal
		10)Tanay Pramanik

(57) Abstract :

This idea presents a smart walker system that revolutionizes mobility aid for people with physical problems. Integrating cutting-edge technologies, the system provides a solution that addresses the limits of traditional mobility aids. Real-time health assistance, emergency help, navigation guidance, and integration with renewable energy are among the key features. Health assistance capabilities allow for continuous surveillance of vital health parameters like body temperature, heart rate, and oxygen levels, which aids in the early diagnosis of health problems. An automatic emergency alarm system immediately notifies caregivers in the event of a fall or a health issue, assuring rapid assistance. Sensors and audible alerts provide navigation help, which is especially useful for visually impaired users and improves mobility and independence in a variety of surroundings. Furthermore, renewable energy integration through solar panels powers the system in a sustainable manner, minimizing dependency on traditional power sources. This smart walker system improves mobility, safety, and autonomy for people with mobility issues, thereby dramatically increasing their quality of life. Its multipurpose design and innovative features mark a huge leap in assistive technology, offering an easier life for specially abled users worldwide.

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