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(57) Abstract :

A convertible walking assistance device for physically impaired characterizes a set of telescopic support rod 1 having handles 2 which is gripped by user for walking, an artificial intelligence camera 3 detects user's height for increasing/decreasing length of telescopic rod 1, a display unit 4 linked FBG sensor for detecting vital health parameters of user and displaying notification regarding change in configuration of rod 1, a rotatable disc 5 attached with a rubberized stopper 6 and wheel 7 assembled at base of rod for deploying stopper 6 when rods 1 are used as crutches, a pair of panels 8 hinged at side portions for deploying panels 8 perpendicular to each other, thereby forming a seating space for the user, and an electromagnetic module 10 attached to the panels 8 in combination with metallic element for locking the panels 8.

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