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(57) Abstract :

The present invention relates to a walking aid device comprising a body 1 having a pneumatically operated rod 2 integrated with Velcro strap 3 operated by user for securing the body 1 on thigh portion of user by fastening the strap 3, body 1 installed with AI image capturing module 4 on rod 2 for capturing images of user to detect height in order to extract and retract rod 2, motorized slider 5 arrange on rod 2 integrated with foot supporting unit 6 that is utilized for placement of foot in case of elevated pathway, , an ultrasonic sensor arranged on the body 1 actuated through microcontroller to determine texture of surface on which user walks, by detected surface microcontroller regulates rod 2 extract and retract to provide smoothly walking experience, FBG sensor 7 is arranged on the strap 3 for determining vital parameter of user.

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