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(57) Abstract :

The present invention relates to an adaptive exercise assistive device comprising a frame 1 installed with a pair of legs 2 mounted with a platform 3 for accommodating a user, a semicircular rack 4 integrated on the legs 2 for providing a guided path for the user, a pair of primary telescopic rods integrated within the legs 2 for raising/declining the platform 3 at varied heights, multiple hinge joints integrated in between the platform 3 and leg for tilting the platform 3, a foot placing unit 5 configured at one end of the platform 3 for accommodating the user's feet to enabling bending of the user's leg, a voice module arranged on the leg 2 for receiving voice command of the user regarding type of exercise, a microcontroller associated with the device for governing movement of the joints and a sensing module for analyzing the user's performance.

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