

(54) Title of the invention : MODULAR STRETCHING EXERCISE ASSISTIVE DEVICE

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(57) Abstract :

A modular stretching exercise assistive device, comprising an elongated frame 1 hinged with a pair of horizontal platforms 2 such that a user sits on a central seating space 3 by aligning legs in support of the platforms 2, a display unit 4 for enabling the user to select option(s) regarding stretching exercises as per desired difficulty level, multiple electromagnetic modules for generating different intensity of force of attraction/repulsion between the platforms 2, an L-shaped telescopic member 7 for applying pushing force on user's back and assisting user in performing back stretching exercises, a pair of braces 6 supposed to be from by user and fabricated with multiple strain sensors for detecting muscular strain experienced by the user's back, a pair of telescopic supporters attached to the frame 1 for providing support to the user, an AI (Artificial Intelligence) based camera 5 for capturing continuous images of user.

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