

Researchers:

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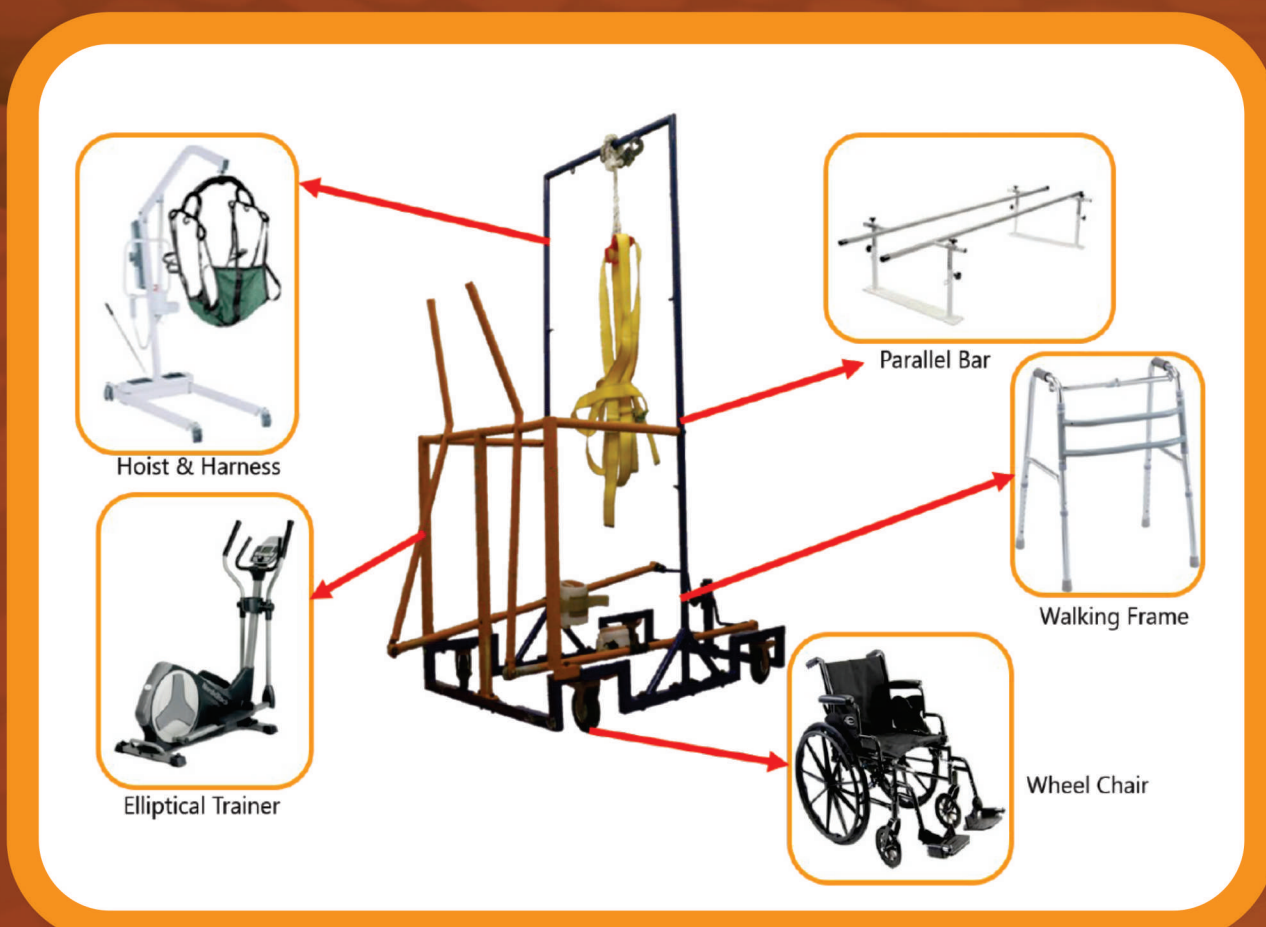
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PRO-Gait 17



Introduction

- Several diseases such as spinal cord injuries and stroke are common precursors for developing a physical impairment like walking disability.
- The conventional training methods with hands-on supervision by therapists is effective.
- Nevertheless, great labor intensive for the therapists to assist the patient

Problem Statement

- The customer complaints the quality of treatment they received
- Many patients took more than 12 months to recover.
- Analysis of the work satisfaction level amongst therapists at the Rehabilitation Service showed work burden scored the lowest.
- Gait training was done manually, separately and it took too much time

Inventiveness and Novelty

- PRO-Gait 17 is a combination of several walking tools such as a wheelchair, parallel bar, elliptical trainer and walking frame. The hoist and harness are embedded in PRO-Gait 17 to support patient and the application of elliptical movement to stimulate the patient to walk in a normal gait according to the standard gait phase. PRO-Gait 17 featured with a stable base, an ergonomic hand pedal, strong frame which can support weight over 200 kg, adjustable safety harness and wheels with safety brake for safety purpose, and an adjustable leg cuff to coordinate leg during walking treatment.

Intellectual Property Status

- Copyright filed : AR2017002403

Usefulness and Application

- 4 in 1 product- Eco-Saving, User-Friendly, Affordable, Portable

Status of Invention

- Prototype done
- Upgrading to semi-auto product

Commercial Potential

- The cost only RM3000, cheaper than other high technology machine for gait training

Potential Partners

- Community based-rehabilitation center
- Rehab center
- The social welfare service department
- Old folks home
- Industrial training and rehabilitation center
- Public and private hospital
- Pharmacy

Knowledge Management (Grant/Publication/etc.)

- Grant DIA USM

Impact of the Product

- Reduce time spent on gait training by 50%, Increase the level of the patient's balance, increase the efficiency rate of the therapist

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