



Device and Method for Motor Rehabilitation

Technology Reference

CV47

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Lead Inventor

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Field

Rehabilitative Health Care
Physical Therapy

Key Words

- movement therapy
- physical therapy
- rehabilitation
- movement disorders
- exercise
- mobility

Therapeutic Areas

- Rehabilitative Medicine
- Physical Therapy
- Physical Conditioning
- Health and Fitness

Stage of Development

An experimental prototype
has been developed

Status

Seeking Licensing Partner

- Exclusive
- Worldwide

Background

Various devices have been designed to provide movement therapy and conditioning. However, most of these devices require a direct contact of the user with the device, or they are cumbersome to use and difficult to adjust to particular treatment or exercise protocol. A need exists for a device that has the versatility to enable a user to perform a broad range of elements of movement therapy.

Description of Invention

The present invention can provide a wide spectrum of conditioning and motion therapy of the upper and lower extremities as well as entire body. The present invention can serve the motions lead to natural rhythmic movements, which involve specific elements of the body as well as the whole body. Such movements provide exercise effects on joints and muscles, in particular increasing mobility of joints, tendon and muscle strength, shape and tone the body. Using this device increases involvement of a user in motor activity, while improving movement performance, agility, quickness and timing of the individual.

A prototype has been developed and tested. Some data has been generated. The device may be used at the hospital, home, health club, physician's office, depending upon the purposes and results desired. It is portable, requires little space and can be operating easily. The device may be freely adjusted to variations in age, size, training level and medical condition of the individual. This device may also be an attractive toy for children and the basic technique of its use becomes immediately apparent to kids even at the pre-school age level.

Applications

The inventor believes that the device is a very good exercise and rehabilitation tool for rapid, safe, enjoyable, and appropriate therapy and conditioning, and has applications in the following markets: 1) rehabilitation and physical therapy of injured joints, neurological and age related movement disorders; 2) fitness, and aerobic exercise programs; 3) administration of movement therapy.