

A Soft Robotic Device, Kit and System for Limb Rehabilitation

Abstract

The present invention relates to a lower or an upper limb rehabilitation system; the limb rehabilitation system includes assisted-ankle or assisted-wrist rehabilitation device **(300)** and an intermittent pneumatic compression (IPC) device **(305)**; the limb rehabilitation device **(300)** made up of soft extension actuator assemblies **(410)** are operable to minimise joint contracture, whilst the IPC device **(305)** is operable to increase venous blood flow in at-risk patients to help prevent deep vein thrombosis and pulmonary embolism. For lower limb rehabilitation, the rehabilitation device **(300)** provides assisted ankle dorsiflexion-plantarflexion and eversion-inversion to improve users' ankle mobility.

(Figures 3A-3B for publication)