

ABSTRACT

KOAPT-Therapy-Based Treatment and Rehabilitation Device for Degenerative Knee Joint Disease

This invention discloses a device for treating and rehabilitating knee osteoarthritis based on KOAPT therapy, including a positive comfort relationship data acquisition component, motion quantity acquisition component, motion support component, control component, and feedback component. The positive comfort relationship data acquisition component is used to collect positive comfort relationship data of the user's usage status; the motion quantity acquisition component is used to collect motion quantity data of the user's usage status; the motion support component is used to provide trunk support and/or waist support and/or elbow support for the user; the control component is used to execute the KOAPT computer program deployed in the control device and output control commands; the feedback component is used to emit audio and/or video and/or tactile signals to the user based on the control commands. This invention standardizes the user's execution of the movement posture based on knee osteoarthritis pendulum therapy (KOAPT), helps patients overcome physical pain and psychological non-compliance, fundamentally solves the pain of KOA patients, and brings good news to knee joint degenerative disease patients around the world.

Figure 1