

Limb Brace Device And System

ABSTRACT

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There is provided a limb brace device and a limb brace system, the limb brace device comprising one or more receiving portions to support one or more parts of a limb, such that at least one part of the limb is rotatable with respect to one or more limb joints; one or more driving motors; one or more gear engagement systems, each gear engagement system comprising at least one translator member capable of engaging or disengaging the respective gear engagement system to said one or more driving motors; one or more torque adjustable mechanisms coupled to the one or more receiving portions; wherein during engagement of at least one of the one or more gear engagement systems to the one or more driving motors, the engaged gear engagement system is capable of transmitting torque to the one or more receiving portions for movement with respect to the one or more limb joints; and further wherein during disengagement of the one or more gear engagement systems to the one or more driving motors, the one or more torque adjustable mechanisms is capable of affecting the one or more receiving portions for movement with respect to the one or more limb joints.

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FIG. 3