

Title (en)
ELECTRIC BED

Title (de)
ELEKTRISCHES BETT

Title (fr)
LIT ÉLECTRIQUE

Publication
EP 2752136 B1 20160427 (EN)

Application
EP 12838567 A 20120801

Priority
• JP 2011219647 A 20111003
• JP 2012069595 W 20120801

Abstract (en)
[origin: EP2752136A1] [Problem to be solved] In the conventional motor-driven bed, the degree of freedom of design including the location where the crank handle is installed is low, and the object of the present invention is to increase the degree of freedom. [Solution] The present invention is a motor-driven bed, in which the bed bottom is vertically moved and pivotally moved by using an actuator (9) having a rotation-linear motion converting mechanism, characterized in that the rotation side of the rotation-linear motion converting mechanism of the actuator comprises a DC motor and a speed reducing mechanism, and that the power is supplied to the DC motor selectively by either a controller (18) connected with the commercial power supply or a manual power generator (1) driven by a crank handle (7). The manual power generator is configured to ensure that a DC motor capable of acting reversely and a speed increasing mechanism are respectively housed in a device body (5), and that a crank handle connected with the input shaft of the speed increasing mechanism and a power supply cable (8) are provided outside the device body, and the speed increasing mechanism is configured as a worm gear mechanism provided with a worm wheel on the crank handle side and a worm as a multiple-threaded screw on the DC motor side, in order to greatly decrease the size and weight.

IPC 8 full level
A47C 20/04 (2006.01); **A47C 19/04** (2006.01); **A61G 7/018** (2006.01)

CPC (source: EP)
A47C 19/045 (2013.01); **A47C 20/041** (2013.01); **F04C 2270/0421** (2013.01)

Cited by
CN107669014A; CN107467953A; CN108175214A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2752136 A1 20140709; **EP 2752136 A4 20150225**; **EP 2752136 B1 20160427**; CN 103167817 A 20130619; CN 103167817 B 20160511; JP 2013078451 A 20130502; JP 5665133 B2 20150204; WO 2013051332 A1 20130411

DOCDB simple family (application)
EP 12838567 A 20120801; CN 201280003305 A 20120801; JP 2011219647 A 20111003; JP 2012069595 W 20120801