

Title (en)
IMPROVED HAPTIC CONTROLLER

Title (de)
VERBESSERTES HAPTISCHES STEUERGERÄT

Title (fr)
CONTROLEUR HAPTIQUE AMELIORE

Publication
EP 3824460 A1 20210526 (FR)

Application
EP 19753176 A 20190718

Priority
• FR 1856663 A 20180718
• FR 2019051811 W 20190718

Abstract (en)
[origin: WO2020016536A1] The invention relates to a haptic controller (1) comprising: a base (2); a plurality of actuators (3), each actuator (3) being mounted such that it pivots in relation to the base (2) about a pivoting axis (4) perpendicular to the main direction; a plurality of damping elements (5), each one being positioned so as to dampen a rotational movement of an actuator (3), said damping elements (5) being elastically deformable between an initial configuration and an end configuration, each damping element (5) comprising a body (51) consisting of a deformable material, said body (51) having at least one recess (55, 57), characterised in that each of said actuators (3) has a protuberance (315) suitable for coming into contact with the associated damping element (5), each protuberance (315) having a free end (316) defining a contact with the associated damping element (5) in its initial configuration.

IPC 8 full level
G10H 1/34 (2006.01)

CPC (source: EP US)
G10H 1/346 (2013.01 - EP US); **G10H 2220/275** (2013.01 - EP); **G10H 2220/311** (2013.01 - US)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020016536 A1 20200123; CN 112740320 A 20210430; EP 3824460 A1 20210526; FR 3084200 A1 20200124; FR 3084200 B1 20210618; JP 2021531501 A 20211118; JP 7426981 B2 20240202; US 11398211 B2 20220726; US 2021280159 A1 20210909

DOCDB simple family (application)
FR 2019051811 W 20190718; CN 201980061027 A 20190718; EP 19753176 A 20190718; FR 1856663 A 20180718; JP 2021502582 A 20190718; US 201917260629 A 20190718