

Title (en)
ROTARY ACTUATOR ASSEMBLY

Title (de)
DREHENDES STELLGLIED

Title (fr)
ENSEMBLE ACTIONNEUR ROTATIF

Publication
EP 3144766 A1 20170322 (EN)

Application
EP 15185537 A 20150916

Priority
EP 15185537 A 20150916

Abstract (en)
A rotary actuator assembly comprises a knob and an electric motor for providing a haptic effect at the knob and/or for driving the knob. The electric motor comprises a shaft, a gear assembly rotationally coupling the knob to the shaft of the electric motor, the gear assembly including a rotary oil damper damping the rotation of the knob. The rotary actuator assembly further comprises an optical rotation detection device for detecting direction, speed and/or angle of rotation of the knob and/or of the electric motor, wherein the optical rotation detection device is detecting the rotation of an element on the shaft.

IPC 8 full level
G05G 1/08 (2006.01); **G05G 5/03** (2008.04)

CPC (source: EP)
G05G 1/08 (2013.01); **G05G 5/03** (2013.01)

Citation (search report)

- [I] US 2005259088 A1 20051124 - OGASAWARA SATORU [JP], et al
- [A] DE 102004049011 A1 20060406 - KOSTAL LEOPOLD GMBH & CO KG [DE]
- [A] DE 10341740 A1 20050331 - KOSTAL LEOPOLD GMBH & CO KG [DE]
- [A] EP 1283534 A1 20030212 - ALPS ELECTRIC CO LTD [JP]
- [A] EP 1734437 A1 20061220 - ALPS ELECTRIC CO LTD [JP]

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CN111512260A; EP3734400A4; US10107386B2; EP3770718A4; US11604488B2; WO2024084834A1

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

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