Title (en)

DUAL MAGNETIC ACTUATION SYSTEM FOR OPTOMECHANICAL SYSTEM OF AN ELECTRONIC DEVICE

Title (de)

DOPPELMAGNETBETÄTIGUNGSSYSTEM FÜR OPTOMECHANISCHES SYSTEM EINER ELEKTRONISCHEN VORRICHTUNG

Title (fr)

SYSTÈME D'ACTIONNEMENT MAGNÉTIQUE DOUBLE POUR SYSTÈME OPTOMÉCANIQUE D'UN DISPOSITIF ÉLECTRONIQUE

Publication

EP 4045958 A1 20220824 (EN)

Application

EP 19831617 A 20191212

Priority

EP 2019084948 W 20191212

Abstract (en)

[origin: WO2021115606A1] A dual actuation system (1) having one actuation axis (A) and comprising a first magnet (2), a second magnet (3), a first coil (4), and a second coil (5). The first magnet (2), the second magnet (3), the first coil (4), and the second coil (5) are arranged in an at least partially overlapping arrangement in a direction perpendicular to the actuation axis (A). Manipulating electrical current in the first coil (4) generates a first movement (M1) along the actuation axis (A) and manipulating electrical current in the second coil (5) generates a second movement (M2) along the actuation axis (A). The first movement (M1) and the second movement (M2) are generated independently of each other. By overlapping the coils and magnets of the dual actuation system, a very compact solution is provided, which has a positive influence on the form factor of the optomechanical system and the electronic device into which it is to be arranged.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2021115606A1

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