

Title (en)

DYNAMICALLY BALANCED, MULTI-DEGREES-OF-FREEDOM HAND HELD CONTROLLER

Title (de)

DYNAMISCH AUSGEGLICHENES, HANDHALTBARES STEUERGERÄT MIT MEHREREN FREIHEITSGRADEN

Title (fr)

DISPOSITIF DE COMMANDE MANUEL À PLUSIEURS DEGRÉS DE LIBERTÉ, À ÉQUILIBRAGE DYNAMIQUE

Publication

**EP 3701359 A4 20210929 (EN)**

Application

**EP 18871801 A 20181026**

Priority

- US 201715796744 A 20171027
- US 201815964064 A 20180426
- US 201816114190 A 20180827
- US 2018057862 W 20181026

Abstract (en)

[origin: WO2019084504A1] A controller is capable of controlling an asset or target in physical and/or virtual three-dimensional space using a single hand by generating control inputs in four or more degrees of freedom while also limiting cross-coupling (unintended motions). The controller includes a first control member is configured to be gripped in a user's single, second control member is disposed on or near a top end of the first member movable with at least one degree of freedom independently of the movement of the first control member, and a third control member positioned on the first member for displacement by one or more digits of the user's single hand and coupled with the second member to move in opposition to movement of the second control member.

IPC 8 full level

**G06F 3/0338** (2013.01); **A63F 13/20** (2014.01); **A63F 13/235** (2014.01); **A63F 13/24** (2014.01); **G05G 9/047** (2006.01); **G06F 1/16** (2006.01); **G06F 3/01** (2006.01); **G06F 3/0346** (2013.01); **G06F 3/038** (2013.01); **H01H 25/04** (2006.01)

CPC (source: EP KR)

**A63F 13/20** (2014.09 - EP); **A63F 13/235** (2014.09 - EP); **A63F 13/24** (2014.09 - EP); **B64C 13/00** (2013.01 - KR); **G05G 9/04737** (2013.01 - EP); **G06F 1/1694** (2013.01 - EP KR); **G06F 3/014** (2013.01 - EP); **G06F 3/016** (2013.01 - EP KR); **G06F 3/017** (2013.01 - EP KR); **G06F 3/0338** (2013.01 - EP); **G06F 3/0346** (2013.01 - EP KR); **G06F 3/0383** (2013.01 - EP KR); **B64U 2201/20** (2023.01 - EP KR); **G05G 9/04788** (2013.01 - EP); **G05G 2009/04707** (2013.01 - EP); **G05G 2009/04774** (2013.01 - EP); **G05G 2009/04777** (2013.01 - EP); **G06F 2203/015** (2013.01 - EP KR)

Citation (search report)

- [A] US 2017133175 A1 20170511 - LIN YU-YU [TW], et al
- See references of WO 2019084504A1

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)

**WO 2019084504 A1 20190502**; CN 111527469 A 20200811; EP 3701359 A1 20200902; EP 3701359 A4 20210929; KR 20200090786 A 20200729

DOCDB simple family (application)

**US 2018057862 W 20181026**; CN 201880083478 A 20181026; EP 18871801 A 20181026; KR 20207014969 A 20181026