

Title (en)  
OPERATING DEVICE

Title (de)  
BEDIENVORRICHTUNG

Title (fr)  
DISPOSITIF DE COMMANDE

Publication  
**EP 2737380 B1 20160525 (DE)**

Application  
**EP 12740343 A 20120720**

Priority  
• DE 102011079863 A 20110726  
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Abstract (en)  
[origin: WO2013014087A1] The invention relates to an operating device, comprising a handle (1) that can be manually deflected from a rest position relative to an axis (2), wherein the handle (1) can be rotated about the axis (2) and/or moved axially with respect to the axis (2) and/or can be tilted relative to the axis (2) and/or can be moved perpendicularly to the axis (2), a sensor system for detecting the deflection of the handle (1), and a haptic apparatus, by means of which a haptically detectable effect can be applied to the handle (1) according to the deflection of the handle (1). The handle (1) is rigidly connected to an actuator (3), by means of which the handle (1) can be driven such as to be movable alternately in one degree of freedom by a motion travel < 1 mm according to the deflection of the handle.

IPC 8 full level  
**G05G 9/047** (2006.01)

CPC (source: EP US)  
**G05G 1/10** (2013.01 - US); **G05G 5/03** (2013.01 - US); **G05G 9/047** (2013.01 - EP US); **Y10T 74/2051** (2015.01 - EP US)

Citation (opposition)  
Opponent : Preh GmbH  
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• WO 03085481 A2 20031016 - IMMERSION CORP [US], et al  
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Cited by  
DE102017114591A1; DE102017114593A1; WO2019002126A2; WO2019002131A2; DE102017114593B4

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