

Title (en)

OPERATOR'S ELEMENT FEATURING TILTING HAPTICS

Title (de)

BEDIENELEMENT MIT KIPPHAPTIK

Title (fr)

ELEMENT DE COMMANDE A SENSATION HAPTIQUE DE BASCULEMENT

Publication

EP 1966811 A2 20080910 (DE)

Application

EP 06776275 A 20060718

Priority

- EP 2006007044 W 20060718
- DE 102005033550 A 20050719
- DE 102006002634 A 20060119

Abstract (en)

[origin: WO2007009744A2] Disclosed is an operator's element (1, 13), especially a joystick, comprising tilting haptics for a motor vehicle, a tiltably mounted lever with a primary (2, 14) and at least one secondary (5, 10, 17) lever arm, and at least one pair of permanent magnets. One magnet of a pair of permanent magnets (6, 11, 18) is disposed on a secondary lever arm (5, 10, 17) while one magnet (7, 12, 19) is stationarily arranged in the operator's element such that non-identical poles of the magnets (6, 7, 11, 12, 18, 19) face each other at a distance from one another in the central position of the operator's element (1, 13).

IPC 8 full level

G05G 5/03 (2008.04); **G05G 5/05** (2006.01); **G05G 9/047** (2006.01); **H01H 3/50** (2006.01)

CPC (source: EP US)

G05G 5/03 (2013.01 - EP US); **G05G 5/05** (2013.01 - EP US); **G05G 2009/0477** (2013.01 - EP US); **H01H 2003/506** (2013.01 - EP US); **Y10T 74/20474** (2015.01 - EP US)

Citation (search report)

See references of WO 2007009744A2

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AL BA HR MK RS

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WO 2007009744 A2 20070125; **WO 2007009744 A3 20081113**; CN 101384975 A 20090311; CN 101384975 B 20120222; DE 102006002634 A1 20070208; DE 102006002634 B4 20091126; EP 1966811 A2 20080910; EP 1966811 B1 20160504; US 2008202278 A1 20080828; US 7944335 B2 20110517

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