

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 B1 20160504 (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)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**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

DOCDB simple family (application)

**EP 2006007044 W 20060718**; CN 200680026212 A 20060718; DE 102006002634 A 20060119; EP 06776275 A 20060718; US 1817408 A 20080122