

Title (en)
OPERATING ELEMENT HAVING IMPROVED TILTING HAPTICS

Title (de)
BEDIENELEMENT MIT VERBESSERTER KIPPHAPTIK

Title (fr)
ÉLÉMENT DE COMMANDE DOTÉ D'UN SYSTÈME HAPTIQUE DE BASCULEMENT AMÉLIORÉ

Publication
EP 2245517 A1 20101103 (DE)

Application
EP 08871105 A 20081209

Priority
• EP 2008010423 W 20081209
• DE 102008004909 A 20080118

Abstract (en)
[origin: WO2009089874A1] The invention relates to an operating element (20) for a motor vehicle, comprising an operating button, a bearing site (22) for the operating button located in a housing (29) of the operating element (20), an extension (23) permanently connected to the operating button, a first permanent magnet (27) attached to the extension (23), and a second permanent magnet (28) attached in the housing (29). The permanent magnets (27, 28) form a permanent magnet pair (27, 28). In a central position of the operating button, non-identical poles of the magnets are spaced opposite from each other. A magnetically conductive material (14, 15, 16, 17) is attached at least in some regions and at the circumference on the permanent magnet pair (27, 28).

IPC 8 full level
G05G 5/05 (2006.01); **G05G 9/047** (2006.01)

CPC (source: EP US)
G05G 5/05 (2013.01 - EP US); **G05G 2009/04766** (2013.01 - EP US); **Y10T 74/20582** (2015.01 - EP US)

Citation (search report)
See references of WO 2009089874A1

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Designated extension state (EPC)
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DOCDB simple family (publication)
WO 2009089874 A1 20090723; DE 102008004909 A1 20090730; DE 102008004909 B4 20100909; EP 2245517 A1 20101103; EP 2245517 B1 20140219; JP 2011510386 A 20110331; JP 5303574 B2 20131002; US 2010288071 A1 20101118; US 8284003 B2 20121009

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