

Title (en)  
LEVER OPERATION DEVICE

Title (de)  
HEBELBEDIENVORRICHTUNG

Title (fr)  
DISPOSITIF D'OPÉRATION DE LEVIER

Publication  
**EP 3264217 B1 20220413 (EN)**

Application  
**EP 17174011 A 20170601**

Priority  
JP 2016120450 A 20160617

Abstract (en)  
[origin: EP3264217A2] A guide hole (22a) of an operation portion (22) of an operation body (20) is inserted with a tactile pin (23) having, at a top end, an abutting-end portion (23a) abutting an abutting-target surface of a cam (12) in a casing (11). When a lever (21) of the operation body (20) is operated to change a position of a top end portion of the operation portion (22), the abutting-end portion (23a) slides on the abutting-target surface. The tactile pin (23) has, on an outer peripheral surface, a first inclined surface (pin outer periphery inclined surface (23b)). The guide hole (22a) has, on an inner peripheral surface, at a position facing the first inclined surface, a second inclined surface (guide hole inner periphery inclined surface (22b)). Normal directions of the first inclined surfaces (23b, 23f, 23g) and second inclined surfaces (22b, 22f, 22g) are inclined with respect to operation directions of the lever (21). The tactile pin (23) is biased in the guide hole (22a) so that the first and second inclined surfaces abut each other.

IPC 8 full level  
**G05G 1/04** (2006.01); **G05G 5/05** (2006.01)

CPC (source: EP)  
**G05G 1/04** (2013.01); **G05G 5/05** (2013.01); **G05G 5/03** (2013.01)

Citation (examination)  
EP 1612103 A1 20060104 - VALEO SCHALTER & SENSOREN GMBH [DE]

Cited by  
EP3901730A1; IT202100000875A1; CN110043646A; US11372440B2

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