

Title (en)

Actuation device for a automobile clutch

Title (de)

Betätigungseinrichtung für eine Kupplung eines Kraftfahrzeugs

Title (fr)

Dispositif de commande pour un embrayage d'automobile

Publication

EP 1521004 B1 20070815 (DE)

Application

EP 04104695 A 20040927

Priority

DE 10345833 A 20031002

Abstract (en)

[origin: EP1521004A1] The road vehicle clutch actuating system incorporates a toggle spring. As the clutch pedal is depressed (Pedalweg) the force on the pedal (Pedalkraft) rises to a maximum (31) and then proceeds to fall (30) as the pedal is depressed further. The curve flattens, reaching an approximately constant value (32) at the end of the pedal travel. The characteristic curve exhibits hysteresis, with lower pedal force being experienced as the pedal is released. The spring for the clutch pedal may be a coil spring, with an additional shorter coil spring inside it.

IPC 8 full level

F16D 23/12 (2006.01); **G05G 1/30** (2008.04); **G05G 1/44** (2008.04); **G05G 1/46** (2008.04); **G05G 5/03** (2006.01); **G05G 7/04** (2006.01)

CPC (source: EP)

G05G 1/30 (2013.01); **G05G 1/44** (2013.01); **G05G 1/46** (2013.01); **G05G 5/03** (2013.01)

Cited by

FR2928750A1; CN100459003C; US11773992B2; US12000123B2; US8418828B2; FR3009357A1; US2023140314A1; US11821529B2; US2024093797A1; WO2015074654A1; US11795666B2; US11815424B2; US11674609B2; US11835147B2; USD1021000S

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1521004 A1 20050406; EP 1521004 B1 20070815; DE 10345833 A1 20050421; DE 502004004626 D1 20070927

DOCDB simple family (application)

EP 04104695 A 20040927; DE 10345833 A 20031002; DE 502004004626 T 20040927