

Title (en)

ACTUATION UNIT FOR AN ELECTROMECHANICALLY ACTUATED DISK BRAKE

Title (de)

BETÄTIGUNGSEINHEIT FÜR EINE ELEKTROMECHANISCH BETÄTIGBARE SCHEIBENBREMSE

Title (fr)

UNITÉ D'ACTIONNEMENT POUR UN FREIN À DISQUE À ACTIONNEMENT ÉLECTROMÉCANIQUE

Publication

EP 2536610 A1 20121226 (DE)

Application

EP 11703419 A 20110203

Priority

- DE 102011002565 A 20110112
- DE 102010001986 A 20100216
- EP 2011051503 W 20110203

Abstract (en)

[origin: WO2011101247A1] The invention relates to an actuation unit for an electromechanically actuated disk brake, especially for motor vehicles, which is mounted on a brake caliper (50) in which two brake linings interacting with respective lateral faces of a disk brake can be displaced to a limited extent, one of the brake linings being engageable with the brake disk directly and the other brake lining by the effect of a reactive force produced by the brake caliper (50), when the actuation unit is actuated by means of an actuation element. The actuation unit comprises a motor and a reduction gear operatively arranged between the motor and the actuation element, said reduction gear having a threaded spindle (17) that can be driven by the motor, the threaded spindle being axially supported on the brake caliper (50). A rolling bearing (42) and a force measuring device (40) having a deformable element (43), which is deformed under the impact of the force to be determined, are arranged in the force flow between the threaded spindle (17) and the brake caliper (50), said threaded spindle (17) being supported on the deformable element of the force measuring device (40) via the rolling bearing (42).

IPC 8 full level

B60T 13/74 (2006.01); **F16D 65/18** (2006.01); **F16D 65/14** (2006.01)

CPC (source: EP US)

B60T 13/741 (2013.01 - EP US); **F16D 65/18** (2013.01 - EP US); **F16D 2066/005** (2013.01 - EP US); **F16D 2121/24** (2013.01 - EP US); **F16D 2125/40** (2013.01 - EP US); **F16D 2125/50** (2013.01 - EP US)

Citation (search report)

See references of WO 2011101247A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 102011002565 A1 20110818; CN 102762426 A 20121031; CN 102762426 B 20160203; EP 2536610 A1 20121226; KR 20130004295 A 20130109; US 2012298455 A1 20121129; WO 2011101247 A1 20110825

DOCDB simple family (application)

DE 102011002565 A 20110112; CN 201180009784 A 20110203; EP 11703419 A 20110203; EP 2011051503 W 20110203; KR 20127024139 A 20110203; US 201113577339 A 20110203