

Title (en)  
DEVICE FOR AXIALLY ADJUSTING AT LEAST ONE PLATE-TYPE SHIFTING ELEMENT

Title (de)  
EINRICHTUNG ZUR AXIALEINSTELLUNG WENIGSTENS EINES LAMELLENSCHALTELEMENTES

Title (fr)  
DISPOSITIF DE RÉGLAGE AXIAL D'AU MOINS UN ÉLÉMENT DE COMMANDE À LAMELLES

Publication  
**EP 2021646 A1 20090211 (DE)**

Application  
**EP 07729512 A 20070525**

Priority  
• EP 2007055083 W 20070525  
• DE 102006025061 A 20060530

Abstract (en)  
[origin: WO2007138002A1] The invention relates to a device for axially adjusting at least one plate-type shifting element comprising a pivoting wheel (89) and an adjoining ball ramp disc (91), the pivoting wheel (89) being axially fixed and rotatably mounted and the ball ramp disc (91) being non-rotatably mounted and axially displaceable. The pivoting wheel (89) co-operates with the ball ramp disc (91) by means of anti-friction bodies (97), which are situated in grooves (95) of differing depths in the pivoting wheel (89) and corresponding grooves (93) of the ball ramp disc (91), the gradient of said grooves (93, 95) varying over their length. According to the invention, starting from the initial position of the anti-friction bodies (97) when the plate-type shifting element is open, the grooves (93, 95) have an initial gradient of between 10° and 25° in a clearance area (130) of the plate-type shifting element in a first displacement direction (I) of the pivoting wheel (89) and a gradient of at least 1,4° in a working area (132) of the plate-type shifting element.

IPC 8 full level  
**F16D 27/00** (2006.01)

CPC (source: EP)  
**F16D 28/00** (2013.01); **F16H 48/08** (2013.01); **F16H 48/11** (2013.01); **F16H 48/22** (2013.01); **F16H 48/295** (2013.01); **F16H 48/30** (2013.01); **F16H 48/34** (2013.01); **F16H 48/40** (2013.01); **F16H 2048/204** (2013.01); **F16H 2048/343** (2013.01); **F16H 2048/423** (2013.01)

Citation (search report)  
See references of WO 2007138002A1

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**DE 102006025061 A1 20071206**; EP 2021646 A1 20090211; WO 2007138002 A1 20071206

DOCDB simple family (application)  
**DE 102006025061 A 20060530**; EP 07729512 A 20070525; EP 2007055083 W 20070525