

Title (en)

GEAR SHIFT DRUM ASSEMBLY FOR A SHIFT DEVICE OF A TRANSMISSION UNIT, AND TRANSMISSION UNIT FOR A DRIVE TRAIN OF A MOTOR VEHICLE

Title (de)

SCHALTWALZENANORDNUNG FÜR EINE SCHALTVORRICHTUNG EINER GETRIEBEEINHEIT, SOWIE GETRIEBEEINHEIT FÜR EINEN ANTRIEBSSTRANG EINES KRAFTFAHRZEUGS

Title (fr)

ENSEMBLE TAMBOUR DE CHANGEMENT DE VITESSE POUR UN DISPOSITIF DE CHANGEMENT DE VITESSE D'UNE UNITÉ DE TRANSMISSION ET UNITÉ DE TRANSMISSION POUR UNE CHAÎNE CINÉMATIQUE D'UN VÉHICULE À MOTEUR

Publication

EP 4077979 A1 20221026 (DE)

Application

EP 20820397 A 20201204

Priority

- DE 102019220182 A 20191219
- EP 2020084763 W 20201204

Abstract (en)

[origin: WO2021122072A1] The invention relates to a gear shift drum assembly (32) for a shift device (30) of a transmission assembly (16), in particular for motor vehicles, comprising a gear shift drum body (34) and first shift elements (54a, 54b), as well as a second shift element (55), wherein the gear shift drum body (34) can be rotated about an axis of rotation (36) and has a plurality of first shift contours in the form of first gear shift drum grooves (52a, 52b) on the circumference of the outer surface, in which a respective one of the first shift elements (54a, 54b) engages, as well as a second circumferential shift contour, in which the second shift element (55) engages, wherein the first shift contours and the second shift contour are formed in an axial and/or radial direction, and wherein, as a result, the first shift elements (54a, 54b) or the second shift element (55) can be shifted in the axial direction of the gear shift drum body (34) by rotating the gear shift drum body (34) by means of the associated first shift contours or the second shift contour, and comprising a parking lock system (80) having a parking lock wheel (81), a parking lock pawl (84) and an actuation mechanism, wherein the actuation mechanism is coupled to the second shift element (55) in such a way that, with a predetermined shift angle, an adjusting of the parking lock pawl (84) from a release position (FP) into the locked position (SP), in which an immobilisation of the motor vehicle is achieved, can be brought about. The gear shift drum assembly also comprises a shiftable retaining system, which can be adjusted between a blocking position (AP) in which the parking lock pawl is blocked in the release position (FP) and an unlocked blocking position (eAP).

IPC 8 full level

F16H 63/18 (2006.01); **F16H 61/32** (2006.01); **F16H 63/34** (2006.01)

CPC (source: EP)

F16H 63/18 (2013.01); **F16H 63/3408** (2013.01); **F16H 63/3433** (2013.01); **F16H 61/32** (2013.01)

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

DE 102019220182 A1 20210624; **DE 102019220182 B4 20211118**; CN 114829809 A 20220729; CN 114829809 B 20240209; EP 4077979 A1 20221026; WO 2021122072 A1 20210624

DOCDB simple family (application)

DE 102019220182 A 20191219; CN 202080087829 A 20201204; EP 2020084763 W 20201204; EP 20820397 A 20201204