Title (en)

LOCKING DEVICE FOR VEHICLES, WITH AN OVERLOAD BLOCKING MECHANISM

Title (de)

EINE ÜBERLASTSPERRE AUFWEISENDE VERSCHLUSSVORRICHTUNG FÜR FAHRZEUGE

Title (fr)

DISPOSITIF DE FERMETURE A CLIQUET ANTI-SURCHARGE POUR VEHICULES

Publication

EP 1268960 B1 20040915 (DE)

Application

EP 01938044 A 20010324

Priority

- DE 10015690 A 20000329
- EP 0103389 W 20010324

Abstract (en)

[origin: WO0173246A1] The inventive locking device has an overload blocking mechanism comprising a spring-loaded radial slider (60) and locking means. The overload blocking mechanism is intended to prevent damage to the inner components in the event that a tool for breaking in is inserted in a rotor (10) instead of a key and turned with force. The rotor (10) is rotationally mounted in a sleeve (20) and the sleeve (20) is positioned in a stationary housing (30). Under normal circumstances, the radial slider (60) is used to transmit the key actuation of the rotor (10) to a carrier, which interacts with the lock mechanisms. In order to obtain a space-saving embodiment, the invention provides that a spring mechanism (51) belonging to the overload blocking mechanism is connected to the sleeve (20) in a rotationally fixed manner. Under normal circumstances, said spring mechanism (51) engages in an outer radial extension (32) as a result of being spring-loaded, but is lifted out of said radial extension in the free-running mode. The spring mechanism (51) hereby performs a radial stroke, which is used to steer the radial slider (60) out of its coupling position and into its decoupling position.

IPC 1-7

E05B 17/04

IPC 8 full level

E05B 17/04 (2006.01); E05B 17/00 (2006.01)

CPC (source: EP)

E05B 17/04 (2013.01); E05B 17/0058 (2013.01)

Cited by

CN109184328A

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

WO 0173246 A1 20011004; AU 6380801 A 20011008; DE 10015690 A1 20011018; DE 50103626 D1 20041021; EP 1268960 A1 20030102; EP 1268960 B1 20040915; ES 2223865 T3 20050301

DOCDB simple family (application)

EP 0103389 W 20010324; AU 6380801 A 20010324; DE 10015690 A 20000329; DE 50103626 T 20010324; EP 01938044 A 20010324; ES 01938044 T 20010324