Title (en)

LOCK FOR VEHICLE DOORS OR LIDS

Title (de)

SCHLOSS FÜR TÜREN ODER KLAPPEN AN FAHRZEUGEN

Title (fr)

SERRURE DE PORTIERE OU DE HAYON DE VEHICULES A MOTEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: US7341290B2] According to the invention, when the door is locked, a locking part (10) is displaced into a rotary latch (20), which is first pivoted from its open position into a preliminary detent position. The rotary latch (20) is spring-loaded (25) in the direction of its open position and is usually supported on a catch (30) by means of an initial detent section (21). The rotary latch (20) is then rotated further by means of a motor-driven closing aid with the aid of a drive mechanism (53) and an eccentric element (50), until it reaches a primary detent position, in which the catch (30) rests on a primary detent section of the rotary latch (20). To obtain a reliable lock that can be universally used, a toggle-joint lever pair (40) and a spring-loaded follower (33) are provided between the eccentric element (50) and the rotary latch (20). One fixed end (41) of said toggle-joint lever pair (40) is rotatably mounted in a locally fixed bearing (14) and the other free end (42) is forcibly guided by guide elements (15) and simultaneously supports the spring-loaded follower (33). The toggle-joint lever pair (40) is supported on a control curve (51) of the eccentric element (50). The closing displacement is attained by the extension and/or bending of the toggle-joint lever pair. The follower then seizes the rotary latch (20) and propels it in a motor driven manner from its preliminary detent position into its primary detent position.

IPC 8 full level

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