

Title (en)

DOOR LOCK, ESPECIALLY FOR MOTOR VEHICLES

Title (de)

TÜRSCHLOSS, INSBESONDERE FÜR KRAFTFAHRZEUGE

Title (fr)

SERRURE DE PORTE, EN PARTICULIER POUR VEHICULES AUTOMOBILES

Publication

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Application

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Abstract (en)

[origin: US6648380B1] A rotary latch (11) of a door lock is retained in a detent position by a spring-mounted retainer (20). A motor-driven working member (47) is provided for lifting said retainer (20). An energy-storing device (30) subjects a storing member (22) to a force and hereby serves to lift the retainer (20) out of its detent position in the rotary latch (11). To this end, the storing member (22) has a control surface against which the working member (47) travels in a first motor phase in order to load the energy-storing device (30). A counter-control surface (29) against which the working member (47) travels when lifting the retainer (20) in a staggered second motor phase is also provided. The aim of the invention is to provide a reliable door lock which will also function in the event of an accident. To this end, both the control surface (23) and the counter-control surface (29) are located on the storing member (22). The additional force required for lifting the retainer (20) acts on said retainer indirectly through the storing member (22). As a result, the quantities of energy produced one after the other in the two motor drive phases can be transmitted spontaneously from the shoulder (32) of the storing member (22) to the counter-shoulder (33) of the retainer (20).

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