

Title (en)
SAFETY DEVICE FOR VEHICLE DOOR HANDLE

Title (de)
SICHERHEITSVORRICHTUNG FÜR EINEN FAHRZEUGTÜRGRIF

Title (fr)
DISPOSITIF DE SÉCURITÉ POUR POIGNÉE DE PORTE DE VÉHICULE

Publication
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Application
EP 12731366 A 20120621

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Abstract (en)
[origin: WO2012175599A1] The invention relates to a safety device for a vehicle door handle, in particular in order to avoid unsolicited opening of said door during a side crash scenario. Vehicle door handle movement prevention device, comprising : - a damped inertia! system (17), mobile in rotation around a rotation axis (A) between a locking position domain (B) in which mechanical means (29) of said damped inertial system (17) interfere with an opening mechanism (9) to prevent actuating the door handle (1), and a rest position domain (a) in which the door handle (1) can be freely actuated, - elastic means (21) configured to bring the damped inertial system (17) back to its rest position domain (a) in absence of acceleration, Wherein the damped inertial system (17) comprises : - a cylindrical body (23) hinged on the rotation axis (A), - an arm (25) fixed to the cylindrical body (23), and extending radially from the rotation axis (A), - an inertial mass (27) supported at the free end of said arm (25), configured to bring the inertial system (17) in locking position when inertial forces due to accelerations caused by a side crash of the vehicle are applied on said inertial mass (27), and in that the damped inertial system (17) further comprises a rotational damper (37) integrated in the cylindrical body (23) around rotation axis (A), the rotational damper (37) being configured to temporize the return of the inertial system (17) from the locking position domain (B) to the rest position domain (a).

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