

Title (en)  
COMPACT AND DAMPENED HINGE DEVICE

Title (de)  
KOMPAKTE UND GEDÄMPFTE SCHARNIERVORRICHTUNG

Title (fr)  
DISPOSITIF DE CHARNIÈRE COMPACT ET AMORTI

Publication  
**EP 3969708 A1 20220323 (EN)**

Application  
**EP 20732492 A 20200515**

Priority  
• IT 201900006985 A 20190517  
• EP 2020063738 W 20200515

Abstract (en)  
[origin: WO2020234198A1] A compact and dampened hinge device includes a first connection means (3) assigned to be fixed to a hatch or shutter for the rotation of the latter between closed and fully opened conditions of a respective appliance or household appliances. This first attachment means is swivelling connected, through a hinge pin (4), to a second connection means (5) assigned to be fixed to a structure or frame of said appliance or household appliances. The device (1) comprises at least a first elastic means (7) interconnected between the first (3) and second (5) connection means to transmit to the first (3) connection means an elastic torque directed towards the closed condition of the hinged device (1). Said device (1) comprises a damper element (11) of a linear type having a longitudinal geometric axis and a first end connected to at least one of the first (3) or second (5) connection means directly or by means of an element connected thereto (3, 5). The other and second end of the damper element (11) is assigned to meet with an abutment element (13) slidable in a sliding direction aligned or parallel to the axis of the damper element (11) due to the effect of a translating means (15) sliding in said sliding direction and actuated, at least in the terminal closing phase of the hatch, by at least one offset element (17) fixed to the second connection means (5) at a respective predetermined distance from the hinge pin (4). In at least one angular sector of the door rotation, the offset element (17) meets with the translating means (15) sliding it together with the abutment element (13) in the sliding direction compressing the damper element (11) which brakes the rotation of the door in such angular sector.

IPC 8 full level  
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