

Title (en)
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EP 0114041 B1 19860528 (DE)

Application
EP 84100003 A 19840102

Priority
DE 3300331 A 19830107

Abstract (en)

[origin: EP0114041A1] 1. Door, especially up-and-over articulated door (1), with door panels which are arranged one above the other and are connected pivotably to one another, with a counterforce which balances out the weight of the door and which counteracts the closing of the door, and acts on a counter weight shaft (4) which is connected to the door and on which a anti-fall device (9) is arranged which consists of a ratchet wheel (12) arranged on the counterweight shaft (4) to be fast in rotation therewith and having radially open spaces (15), formed by supporting surfaces (14), for detent elements (16) mounted therein, and which comprises a stationary housing (11) motionless relatively to the counterweight shaft (4), the inner side of said housing covering the ratchet wheel (12) at a spacing which is smaller than the radial diameter of each detent element (16), and said housing comprising abutments for the detent elements (16), characterized in that a) the abutments are constructed as recesses (23) in the form of quater-sphere sections, b) on the inner side of the housing (11) there are arranged grooves (21) which are open towards the inner surface (20) of the housing (11) and in the rear wall (22) of which the forwardly and radially open quarter-sphere recesses (23) are formed, c) a counterhousing (18) is provided which is connected to the counterforce (5) and which is freely rotatable on the counterweight shaft (4), d) on the inner surface (19) of the counterhousing (18) projections (24) are provided, with radially inwardly open quater-sphere-shaped recesses (25) for the detent elements (16), theses engaging in the grooves (21) of the housing (11) and having a shorter length (1) as viewed in the circumferential direction than the grooves (21), and e) the arrangement of the recesses (23, 25) in the grooves and in the projections (24) is such that when the counterhousing (18) rotates relatively to the housing (11) the quarter-sphere recesses (23, 25) can form a hemispherical recess, the circumference of the ratchet wheel (12) from the lowest part of the hemispherical recesses (23, 25) to the entry of the detent elements (16) in the event of the locking of the counterweight shaft (4) having a distance which is smaller than the diameter of the detent elements (16).

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IPC 8 full level
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CPC (source: EP)
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