

Title (en)
WIDE OPENING SIMPLIFIED SOFT-CLOSE HINGE

Title (de)
VEREINFACHTES SCHARNIER MIT WEITER ÖFFNUNG

Title (fr)
CHARNIÈRE LARGE OUVERTURE SIMPLIFIÉE SOFT-CLOSE

Publication
EP 4223966 A1 20230809 (EN)

Application
EP 23153626 A 20230127

Priority
IT 202200002207 A 20220208

Abstract (en)
Wide opening simplified soft-close hinge (11) suitable to be arranged between a fixed part of a cabinet (M), such as an upper wall (16) of an inner compartment (V) of the cabinet (M), and a moving part of a cabinet for closing the compartment, such as a door (15), wherein the hinge comprises- a mounting plate (12) to said fixed part of the cabinet M and a fastening plate (14) to said moving part for closing the compartment, such as the door (15), wherein- said mounting plate (12) is provided with two extensions (21), spaced from each other and directed towards the fastening plate (14), wherein said two extensions (21) are each provided with a through hole (22), where each through hole is aligned with the other to receive a rotation pin (18) of the hinge,- said fastening plate (14) is also provided with two extensions (28), arranged at an end of the fastening plate (14), facing the mounting plate (12) and spaced from each other so as to be able to be placed side by side with the two extensions (21) of the mounting plate (12) and each also provided with a through hole (29) suitable to be placed side by side and aligned with the holes (22) of the mounting plate (12) and to receive the rotation pin (18) of the hinge,- said mounting plate (12) is also provided, in the body thereof in a position between said two extensions (21), with a soft-close cylinder (26);- said fastening plate (14) is further provided, in the body thereof in a position between said two extensions (28) thereof, with a cam element (3) for operating said soft-close cylinder (26) and springs (38) for the return and stable positioning of the hinge, and a snap action and return pin (19) inserted passing through slots (34) obtained on opposite sides of said fastening plate (14) and in a slot (33) of said cam element (30);- wherein said fastening plate (14) can rotate between a hinge open position and a hinge closed position relative to said mounting plate (12) through an angle of 90° or greater relative to each other, there being provided in said two positions at least two rounded seats or recesses (23, 24) to be able to house at least part of said snap action and return pin (19) .

IPC 8 full level
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E05D 3/02 (2013.01); **E05D 5/046** (2013.01); **E05D 11/1064** (2013.01); **E05F 1/1253** (2013.01); **E05F 3/20** (2013.01); **E05F 5/10** (2013.01); **E05Y 2201/256** (2013.01); **E05Y 2201/264** (2013.01); **E05Y 2201/41** (2013.01); **E05Y 2201/638** (2013.01); **E05Y 2201/682** (2013.01); **E05Y 2800/676** (2013.01); **E05Y 2900/20** (2013.01)

Citation (applicant)
JP 2009121169 A 20090604 - NAKAO SEISAKUSHO KK

Citation (search report)
• [A] JP 2009121169 A 20090604 - NAKAO SEISAKUSHO KK
• [A] WO 2021023587 A1 20210211 - SALICE ARTURO SPA [IT]
• [A] EP 3181787 A1 20170621 - SYSTEM HOLZ S R L [IT]
• [A] WO 2021039254 A1 20210304 - SUGATSUNE KOGYO [JP]

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