

Title (en)

AN IMPROVED HINGE, IN PARTICULAR FOR DOORS OF ISOTHERMAL CONTAINERS

Title (de)

VERBESSERTES SCHARNIER, INSBESONDERE FÜR TÜREN VON ISOTHERMISCHEN BEHÄLTERN

Title (fr)

CHARNIÈRE AMÉLIORÉE, EN PARTICULIER POUR PORTES DE CONTENEURS ISOTHERMES

Publication

EP 3384116 B1 20201014 (EN)

Application

EP 16820348 A 20161202

Priority

- IT UB20156278 A 20151203
- IB 2016057297 W 20161202

Abstract (en)

[origin: WO2017093956A1] An improved hinge (2), particularly for doors (4) of any isothermal containers (6), comprising a first hinge element (20) and a second hinge element (22), which are integral with the structure (6) of said isothermal container and said door (4), respectively, or vice versa, one of said two elements (22) being rotatable and axially sliding with respect to the other (20), and wherein: - said first hinge element (20) and said second hinge element (22) comprise two corresponding facing edges (31, 37) with respective cam-shaped profiles (35, 41) cooperating with each other to keep said door (4) in closed condition and automatically bringing it into such a condition due to a spring (24) acting on said first (20) or second element (22) and which can be urged by compression by the opening movement of the door (4), - the cam-shaped profile (35) of said first element (20) comprises two first stretches (50) inclined in opposite direction, which join at a first lower apex (36), - the cam-shaped profile (41) of said second element (22) comprises two second stretches (52) inclined in opposite direction, which join at a second lower apex (39), said hinge (2) being characterized in that said second hinge element (22) has, on the connection stretch (54) of the upper ends (53) of said second inclined stretches (52), in diametrically facing position with respect to said second lower apex (39), a single cavity (38) which can be engaged by the first lower apex (36) of said cam-shaped profile (35) of said first element (20) to bring/keep said door (4) in open configuration.

IPC 8 full level

E05F 1/06 (2006.01); **E05D 11/10** (2006.01); **E05F 1/12** (2006.01)

CPC (source: EP)

E05D 11/1014 (2013.01); **E05F 1/063** (2013.01); **E05F 1/1223** (2013.01); **E05D 11/1078** (2013.01); **E05Y 2201/638** (2013.01); **E05Y 2900/102** (2013.01); **E05Y 2900/31** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2017093956 A1 20170608; EP 3384116 A1 20181010; EP 3384116 B1 20201014; ES 2842284 T3 20210713; IT UB20156278 A1 20170603; PT 3384116 T 20210120

DOCDB simple family (application)

IB 2016057297 W 20161202; EP 16820348 A 20161202; ES 16820348 T 20161202; IT UB20156278 A 20151203; PT 16820348 T 20161202