

Title (en)

A hinge for constraining a door to a support structure of the door

Title (de)

Scharnier zum Halten einer Tür an einer Tragstruktur

Title (fr)

Charnière pour mettre en contrainte une porte contre une structure de support

Publication

EP 0632180 B1 19960925 (EN)

Application

EP 93830291 A 19930702

Priority

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Abstract (en)

[origin: EP0632180A1] The invention relates to a hinge (4) for constraining a door (3) to a support structure (2), which hinge (4) is constituted by a first part (6) fixable to the support structure (2) and a second part (7) fixable to the door (3). The second part (7) is connected rotatably about a rotation axis (5) to an end of a lever (8), which with its other end associates rigidly but removably to the said first part (6), in such a way that the second part (7) can rotate in two directions about the rotation axis (5). Blocking-unblocking means (21) of the door (3) are provided, and elastic means (10) acting between both parts (6, 7) and determining in successive order, following deactivation of the blocking means (21) leaving the door (3) free, the application of at least a first moment to the second part (7) to determine a rotation of the second part (7) about the rotation axis (5) to produce at least a partial opening of the door (3), and the application of at least a second moment to brake the further rotation of the second part (7) about the rotation axis (5) due to the weight of the door (3) itself. <IMAGE>

IPC 1-7

E05F 1/12; **E05F 1/10**

IPC 8 full level

F24C 15/02 (2006.01)

CPC (source: EP)

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Cited by

EP2927603A1; US9157641B1; US5822925A; EP2905543A1; EP1909034A3; EP1431671A1; EP2243914A1; ITBO20090226A1; US2011037364A1; US9080364B2; US11191132B2; EP3421889A1; WO2015150050A1; US11920382B2; US8286306B2; US6789293B2; CN106460433A; AU2015239924B2; EP3542697A1; US7134169B2; US10876735B2; CN106974559A; EP3557139A1; EP3901522A1; US11536048B2; US12038218B2

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