

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 A1 19950104 (EN)**

Application

**EP 93830291 A 19930702**

Priority

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Abstract (en)

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 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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Citation (search report)

- [XAY] EP 0014114 A1 19800806 - ESSWEIN SA [FR]
- [YA] DE 2720102 A1 19781116 - BOSCH SIEMENS HAUSGERAETE
- [A] US 3450125 A 19690617 - HOPKINS LELAND G
- [A] US 4817240 A 19890404 - SOVIS JR MILO D [US], et al
- [A] DE 4108816 A1 19920924 - BOSCH SIEMENS HAUSGERAETE [DE]

Cited by

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

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