

Title (en)  
A door hinge

Title (de)  
Türscharnier

Title (fr)  
Charnière de porte

Publication  
**EP 1431671 B1 20060913 (EN)**

Application  
**EP 02425779 A 20021217**

Priority  
EP 02425779 A 20021217

Abstract (en)  
[origin: EP1431671A1] A hinge for oven doors comprising a first box-shaped structure fixed to the oven frame and a second box-shaped structure fixed to the door, a lever connecting the first and second structures which pivots on a pin integral with the lever and turns about the pin between an oven closed and an oven open position; the second structure comprising a spiral spring for adjusting door opening and able to generate a moment which opposes door opening and an elastic element, consisting of metal wire and U-shaped, whose middle portion is connected to the second box-shaped structure and supports, at the ends of the two arms, each comprising a bending spiral spring, a roller which slides on a cam profile of the lever, to generate a moment which facilitates door opening through an angle of given amplitude and prevailing over the first moment. <IMAGE>

IPC 8 full level  
**F24C 15/02** (2006.01); **A47L 15/42** (2006.01)

CPC (source: EP)  
**A47L 15/4261** (2013.01); **E05F 1/1276** (2013.01); **F24C 15/023** (2013.01); **E05Y 2201/22** (2013.01); **E05Y 2201/426** (2013.01); **E05Y 2201/499** (2024.05); **E05Y 2600/33** (2013.01); **E05Y 2600/46** (2013.01); **E05Y 2900/304** (2013.01); **E05Y 2900/308** (2013.01)

Cited by  
EP1619442A1; ES2385688A1; EP2620576A3; EP2128369A3; CN102400623A; CN112154247A; CN110051311A; KR102329487B1; GB2410766A; GB2410766B; EP2060851A1; EP2119969A3; EP2905543A1; IT202000003242A1; US10551070B2; US10352073B2; EP2634336A2; WO2009116094A1; EP3546688A1; EP3546689A1; CN111919063A; AU2019242977B2; EP1909034B1; US11116049B2; US11751294B2

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