

Title (en)
A door hinge

Title (de)
Türscharnier

Title (fr)
Charnière de porte

Publication
EP 1431671 A1 20040623 (EN)

Application
EP 02425779 A 20021217

Priority
EP 02425779 A 20021217

Abstract (en)
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>

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F24C 15/02; **A47L 15/42**

IPC 8 full level
A47L 15/42 (2006.01); **F24C 15/02** (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 2600/46** (2013.01); **E05Y 2900/304** (2013.01); **E05Y 2900/308** (2013.01)

Citation (search report)

- [DA] EP 0632180 A1 19950104 - NUOVA STAR SRL [IT]
- [A] FR 1157256 A 19580528 - ANT COSTE CAUMARTIN SA DES ETS
- [A] FR 1453388 A 19660603 - CSF
- [A] FR 2170070 A1 19730914 - NEFF WERKE [DE]
- [A] EP 0748987 A1 19961218 - FARINGOSI HINGES SRL [IT]
- [A] US 3820866 A 19740628 - KALDENBERG H

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

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