

Title (en)
Hair clip with covered spring

Title (de)
Haarspange mit verdeckter Feder

Title (fr)
Pince à cheveux à ressort masqué

Publication
EP 1112703 B1 20040303 (FR)

Application
EP 00403504 A 20001213

Priority
FR 9916578 A 19991228

Abstract (en)
[origin: EP1112703A1] The hair pin (100) includes two jaws (110,120) articulated around a spindle (150). The jaws are returned by a helicoidal spring (140) threaded on the spindle. A spring masking part is arranged between the two gripping parts (111,121) so as to cover the part of the spring threaded on the spindle. The masking part comprises two juxtaposed parts (130) each of which are fixed to the gripping part of a jaw. Each end strand (141) of the spring is supported against each corresponding part of the masking part so that the place of displacement of the end strands is located under the masking part.

IPC 1-7
A45D 8/20

IPC 8 full level
A45D 8/20 (2006.01)

CPC (source: EP US)
A45D 8/20 (2013.01 - EP US); **Y10T 24/4447** (2015.01 - EP US)

Cited by
FR2991856A1; WO2013186730A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1112703 A1 20010704; EP 1112703 B1 20040303; AT E260582 T1 20040315; DE 60008685 D1 20040408; DE 60008685 T2 20050303; DK 1112703 T3 20040705; ES 2214238 T3 20040916; FR 2802785 A1 20010629; FR 2802785 B1 20020322; PT 1112703 E 20040630; US 2001006068 A1 20010705; US 6357452 B2 20020319

DOCDB simple family (application)
EP 00403504 A 20001213; AT 00403504 T 20001213; DE 60008685 T 20001213; DK 00403504 T 20001213; ES 00403504 T 20001213; FR 9916578 A 19991228; PT 00403504 T 20001213; US 74837900 A 20001227