

Title (en)

HAIR HOLDING DEVICE WITH CONCEALED SPRING

Title (de)

HAARHALTEVORRICHTUNG MIT VERSTECKTER FEDER

Title (fr)

DISPOSITIF DE MAINTIEN DES CHEVEUX DOTE D'UN RESSORT DISSIMULE

Publication

EP 1596684 A2 20051123 (EN)

Application

EP 04707420 A 20040202

Priority

- US 2004002916 W 20040202
- US 44577303 P 20030207

Abstract (en)

[origin: US2004154633A1] A hair holding device and spring concealment mechanism including a pair of opposed, hingedly connected body members adapted to pivot about a hinge axis between closed and open positions. A torsion biasing spring biases the device into a predetermined position. The spring is concealed in multiple casings, which are unattached to either body member of the hair holding device. The casings do not bear any torque exerted by the spring and do not encase the entireties of the spring's first and second projecting arms. Consequently, they can be made relatively thin-walled and compact to closely conform to the size and shape of the coil portion of the spring. The thin walls and small diameter of the spring casings minimize the extent to which the casings protrude from the hair holding device, thereby improving its aesthetic appeal.

IPC 1-7

A45D 8/20

IPC 8 full level

A45D 8/20 (2006.01)

CPC (source: EP KR US)

A45D 8/02 (2013.01 - KR); **A45D 8/14** (2013.01 - KR); **A45D 8/20** (2013.01 - EP US)

Citation (search report)

See references of WO 2004071233A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2004154633 A1 20040812; AU 2004210656 A1 20040826; CA 2513688 A1 20040826; CN 1747669 A 20060315; EP 1596684 A2 20051123; JP 2006517833 A 20060803; KR 20050103905 A 20051101; MX PA05008381 A 20060313; RU 2005125615 A 20060127; WO 2004071233 A2 20040826; WO 2004071233 A3 20050623

DOCDB simple family (application)

US 77006004 A 20040202; AU 2004210656 A 20040202; CA 2513688 A 20040202; CN 200480003662 A 20040202; EP 04707420 A 20040202; JP 2006503248 A 20040202; KR 20057013312 A 20050719; MX PA05008381 A 20040202; RU 2005125615 A 20040202; US 2004002916 W 20040202