

Title (en)

Fastening device

Title (de)

Befestigungsvorrichtung

Title (fr)

Dispositif d'attache

Publication

**EP 2119858 A1 20091118 (EN)**

Application

**EP 08156194 A 20080514**

Priority

EP 08156194 A 20080514

Abstract (en)

The invention relates to a ball lock, for use in, for instance, shoplifting detection tags, wherein the uncoupling function is spatially separated from the clamping device. As a result, a longer pin (10) can be utilized, so that thicker products can be protected and the uncoupling properties can be adjusted per type of uncoupling device. Owing to the construction of the ball lock, it has become very difficult to remove the fastening of the pin through cutting open or burning open with a flame. Through adjustment of the uncoupling part and/or through the coil spring (6) of the ball lock, the force that an uncoupling apparatus is to apply to the lock for uncoupling this can be optimized.

IPC 8 full level

**E05B 73/00** (2006.01); **E05B 47/00** (2006.01)

CPC (source: EP)

**E05B 73/0017** (2013.01); **E05B 73/0052** (2013.01)

Citation (applicant)

- EP 1091063 A2 20010411 - NEDAP NV [NL]
- NL 1003781 C2 19980220 - NEDAP NV [NL]
- EP 1391574 A2 20040225 - SKJELLERUP JOHAN [US]

Citation (search report)

- [XY] DE 8903818 U1 19890518
- [YA] WO 2006015499 A1 20060216 - STOBA AG [CH], et al
- [A] US 4590461 A 19860520 - COOPER MICHAEL N [US]
- [DA] NL 1003781 C2 19980220 - NEDAP NV [NL]

Cited by

CN113789997A; CN107165511A; CN110043139A; EP4310282A3; WO2015055017A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2119858 A1 20091118**

DOCDB simple family (application)

**EP 08156194 A 20080514**