Title (en)

TAMPER-PROOF

Title (de)

ORIGINALITÄTSVERSCHLUSS

Title (fr)

FERMETURE INVIOLABLE

Publication

EP 0859722 A2 19980826 (DE)

Application

EP 96945717 A 19961107

Priority

- DE 9602143 W 19961107
- DE 19541990 A 19951110

Abstract (en)

[origin: DE19541990A1] The invention concerns a tamper-proof seal intended to show the intact state of a container seal of a closure cap which bulges over a container wall and a container aperture provided in the container wall and capable of being detachably joined to the closure cap. In the closed state, the peripheral border of the closure cap is close to or in contact with the container. The proposed seal consists of at least one indicator element (4) which in the closed state is located between the container wall and the closure cap; a first end of the indicator element (4) projects radially underneath the closure cap towards the central line of the container and has a retaining element with a branch (43) extending upwards tranversely to the longitudinal axis of the indicator element (4), while a second end projects radially outwards. In order to simplify the fitting of such indicator elements and reduce the number of parts required, it is proposed that the indicator element (4) should be connected by its first end on the inner side of the closure cap (1) to at least one securing device and that the securing device should be located on the upper end of the retaining device.

IPC 1-7

B65D 55/06

IPC 8 full level

B65D 47/36 (2006.01); B65D 55/02 (2006.01); B65D 55/06 (2006.01)

CPC (source: EP US)

B65D 55/02 (2013.01 - EP US)

Citation (search report)

See references of WO 9717262A2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

DE 19541990 A1 19970515; BR 9611394 A 20000829; CA 2237175 A1 19970515; DE 59605071 D1 20000531; EP 0859722 A2 19980826; EP 0859722 B1 20000426; JP H11514956 A 19991221; US 6135302 A 20001024; WO 9717262 A2 19970515; WO 9717262 A3 19970619

DOCDB simple family (application)

DE 19541990 À 19951110; BR 9611394 À 19961107; CA 2237175 À 19961107; DE 59605071 T 19961107; DE 9602143 W 19961107; EP 96945717 À 19961107; JP 51775697 À 19961107; US 6861299 À 19990315