

Search strategy

Query

(TAMPER AND EVIDENT AND CLOSURE AND DEFORM+ AND (GROOVE OR RECESS) AND CAP AND (INTERLOCK+ OR SNAP))/TI/AB/CLMS AND (B65D)/IPC/CPC

7 Documents

Publication numbers	Title	Current assignees
US5456374 A	Tamper evident container closure	INNOVATIVE PLASTIC TECHNOLOGY
FR2666307 A1	Tamper-evident stopper for bottles	GRUPO STEVI
EP-771290 A1	Tamper-evident closure system	WILDE
EP1392575 A1	Tamper-evident device	GUALA CLOSURES INTERNATIONAL
EP-682624 A1	Container closure device	TETRA PAK
EP2298663 A1	Closure device with an extensible tamper indicator	INOSTRANNOYE CHASTNOE PROIZVODSTVENNOYE UNITARNOYE PREDPRIYATIYE ALCOPACK
EP-270621 A1	Tamper -proof closure	NORBERT BAREIN

Family 1/7 - FAMPAT - ©Questel

Title

(US5456374)

Tamper evident container **closure****Publication numbers**

CA2153565

AU686428

AU3173895

CA2153565

US5456374

Publication dates

1999-01-05

1998-02-05

1996-04-04

1996-03-20

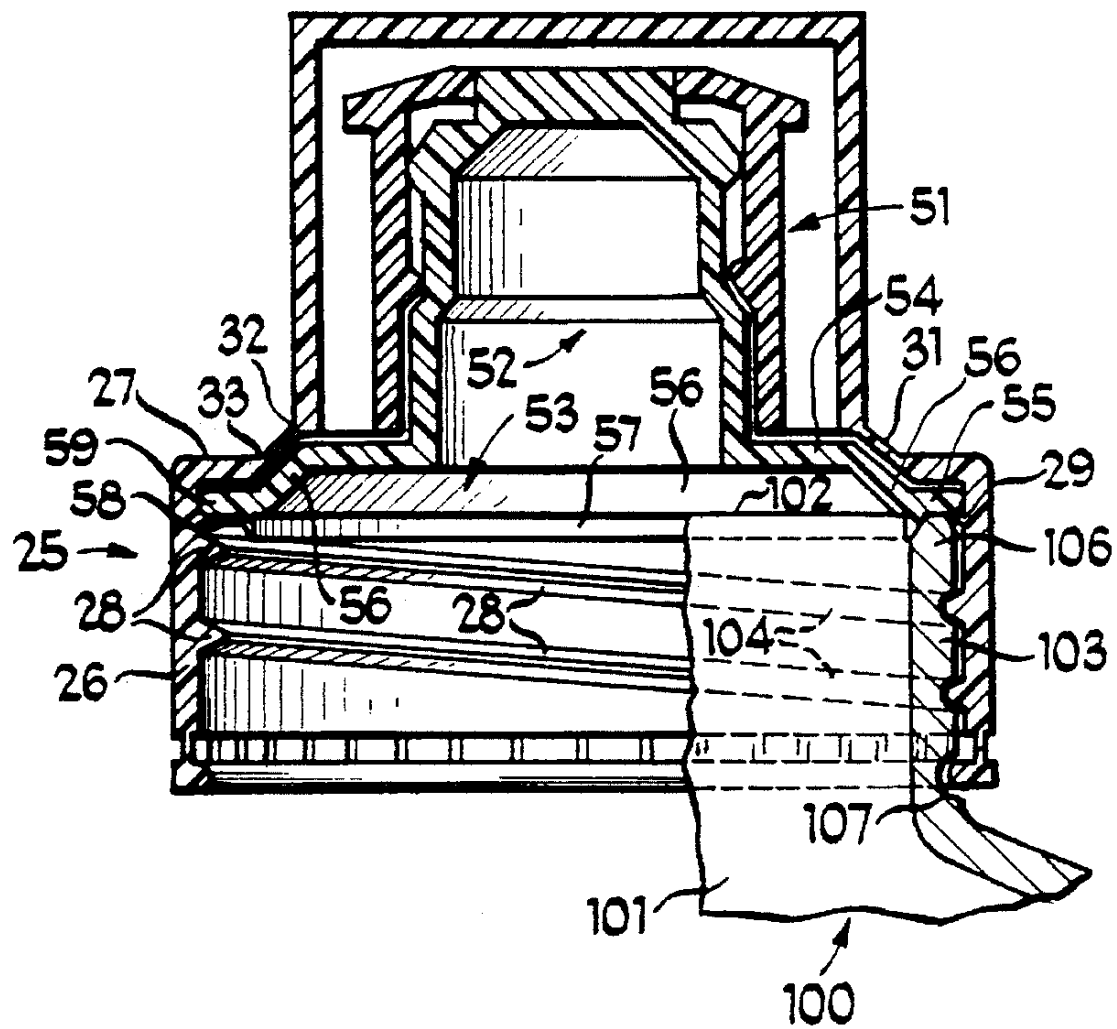
1995-10-10

Abstract

(US5456374)

A **tamper evident closure** construction is provided for use with a container of the type having a neck with a discharge orifice therein. The **tamper evident closure** construction includes a dispenser **cap** and a unitary, one-piece, **tamper evident closure** cover. The dispenser **cap** includes a base connected to the neck and a dispensing portion connected to the base. The **tamper evident closure** cover consists of an overcap and a container **closure cap** separated by frangible webs which, when permanently disengaged, allow access to the dispensing portion and provide a visual indication of tampering. The container **closure cap** is fastened directly to the neck of the container and includes a breakaway tamperband, or alternatively, a **snap-fit** abutment arrangement, which provides an indication of attempts to remove the container **closure cap** from the neck. The skirt of the container **closure cap** is directly coupled to the neck of the container, and includes an annular bead on an inside surface and an annular flange which cooperate to secure and seal the base of the dispenser **cap** against the neck around the discharge orifice.

Images



Family 2/7 - FAMPAT - ©Questel

Title

(FR2666307)

Tamper-evident stopper for bottles**Publication numbers**

ES2048039

ES2048039

JP07002264

ES2048039

PT98846

GB2249303

BR9103098

FR2666307

ITTO910669

GB9118768

ITTO910669

Publication dates

1995-10-16

1995-04-01

1995-01-06

1994-03-01

1993-10-29

1992-05-06

1992-04-28

1992-03-06

1992-03-04

1991-10-16

1991-09-03

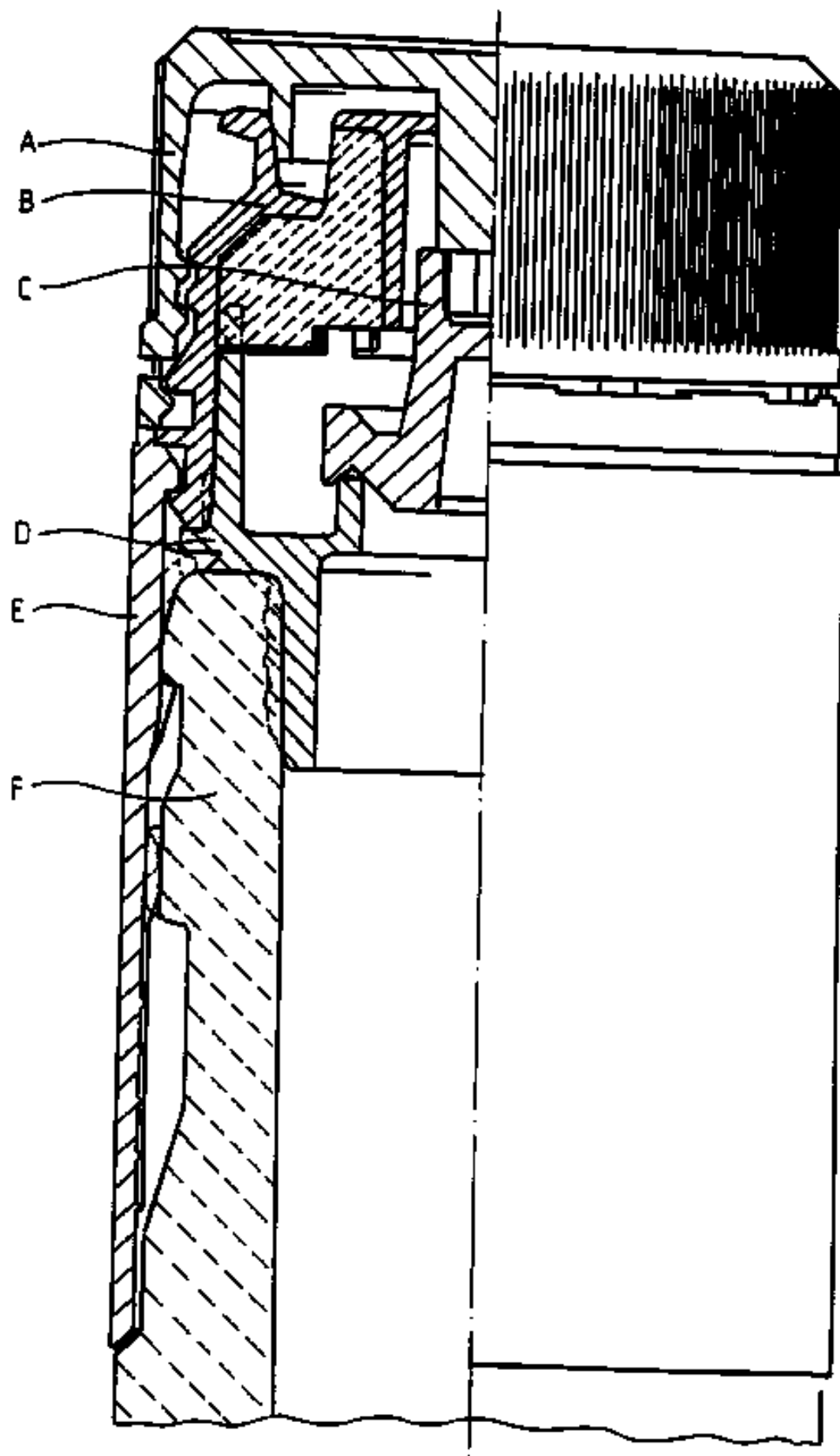
Abstract

(FR2666307)

Stopper for bottles or similar containers, comprising a screw **cap** of the **tamper-evident** type, an outlet, a seal and a cylindrical tube and, depending on the version, a **tamper-evident** ring. In certain versions, the **tamper-evident cap** comprises at its bottom a ring linked to the body of the **cap** by means of small segments or bridges which break when the **cap** is unscrewed for the first time, the fracture of these bridges remaining visible. In another version, the **tamper-evident** ring is not linked to the **cap** and breaks into two parts when the **cap** is unscrewed for the first time. In yet another version, the **tamper-evident** ring is divided into four sections which become detached from the stopper when the **cap** is unscrewed for the first time. The invention also proposes a stopper of the **tamper-evident** and anti-refilling type comprising, in addition to the above parts, a valve whose purpose is to allow the outlet of the liquid from inside the bottle or container and to prevent the entry of liquid, which results in the stopper, in addition to its **tamper**-evidence, preventing any new refilling.

<IMAGE>

Images



Family 3/7 - FAMPAT - ©Questel

Title

(EP-771290)

Tamper-evident closure system

Publication numbers

EP0771290

PL174528

AU691184

JPH10500650

HUT76599

EP0771290

PL317607

HU9603381

AU7057794

WO94/29186

Publication dates

1999-03-03

1998-08-31

1998-05-14

1998-01-20

1997-10-28

1997-05-07

1997-04-14

1997-01-28

1995-01-03

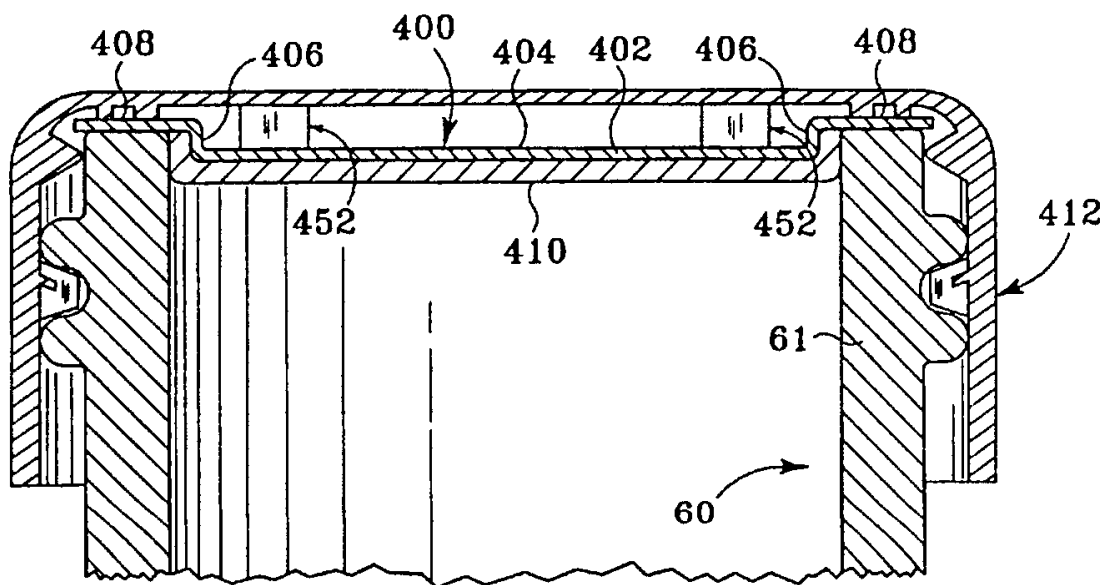
1994-12-22

Abstract

(EP0771290)

An inexpensive, multi-component **closure** for both pressurized and vacuum-packed containers (60), includes a **closure** disk (400) having a combination of features for forming an effective seal for the open mouth of such containers (60) and a screw **cap** (412), also with a combination of features, for carrying, by its rotation, the **closure** disk (400) into closing and sealing engagement with the open mouth (61) of the container (60). The **closure** disk (400) and screw **cap** (412), through their coaction, provide **tamper** evidence upon any subsequent counter-rotation of the screw **cap** (412), for example, as a user initiates opening of the container (60). Through their coaction, **closure** disk (400) and screw **cap** (412) also maintain an effective seal by controlling compression set of the seal, even if the **closure** is exposed to heavy top loads for long periods, such as in storage, and the subsequent removal of the load.

Images



Family 4/7 - FAMPAT - ©Questel

Title

(EP1392575)

Tamper-evident device

Publication numbers

DE60206374

BR0210018

IN257060

PL199890

CN1270941

DE60206374

ES2249582

DE60206374

IN1917/DELNP/2003

AT305420

EP1392575

US6908013

EA005536

MXPA03010696

PL367335

GB2377699

CN1524053

BR0210018

US20040129729

EA200301298

EP1392575

GB2377699

WO02/96771

GB0211569

GB0112726

Publication dates

2014-10-30

2013-12-24

2013-08-30

2008-11-28

2006-08-23

2006-07-13

2006-04-01

2006-02-09

2005-12-16

2005-10-15

2005-09-28

2005-06-21

2005-04-28

2005-03-07

2005-02-21

2005-01-05

2004-08-25

2004-08-10

2004-07-08

2004-06-24

2004-03-03

2003-01-22

2002-12-05

2002-06-26

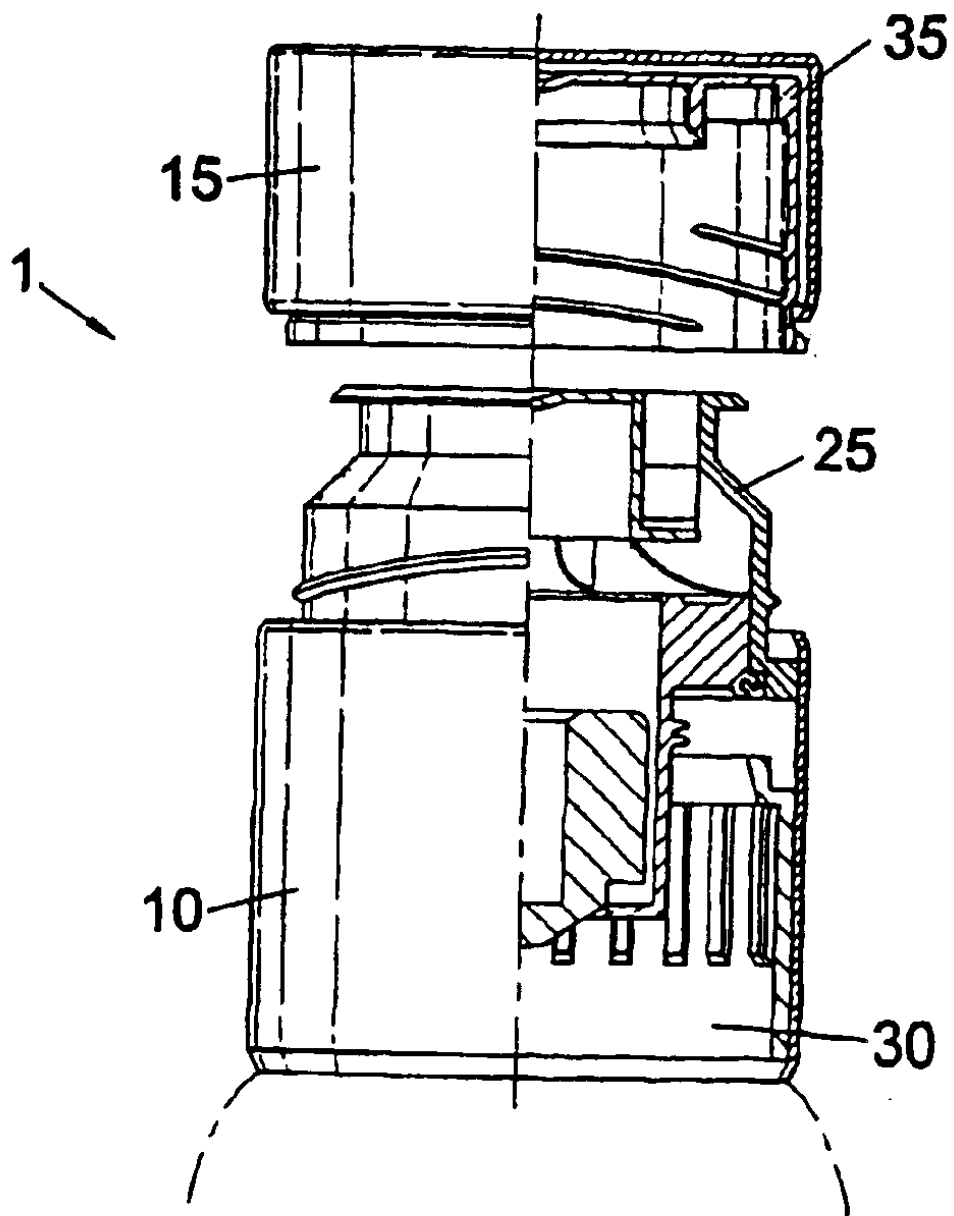
2001-07-18

Abstract

(EP1392575)

There is disclosed a **tamper-evident** device (1, 101, 201) for a **closure** assembly adapted to be applied to a mouth of a container (3), for example, a neck of a bottle. There has been identified a need for an improved **tamper-evident** device which does not have any parts which are removed upon initial opening and which are liable to be reattached by counterfeits or the like. Accordingly the present invention provides a **tamper-evident** device (1, 101, 201) comprising a sleeve member (5, 105, 205) which comprises a first portion (10, 110, 220) associated with a second portion (15, 115, 215) by means of a frangible portion (10, 110, 220) therebetween, and wherein said first portion (10, 110, 210) is adapted to be applied to a mouth and neck portion (4) of a container (3), and said second portion (15, 115, 215) is associated with a container **closure** member (35, 135, 235), and wherein an initial container opening operation causes said frangible portion (20, 120, 220) to fracture or break such that when the container (3) is reclosed said first and second portions (10, 110, 210) are located in a spaced apart relationship to one another.

Images



Family 5/7 - FAMPAT - ©Questel

Title

(EP-682625)

Container **closure** device

Publication numbers

DE69424149

ES2146252

DE69424149

AT192107

EP0682624

DE69415655

ES2127378

RU2126351

DE69415655

AT175165

EP0682625

CN1040311

AU696551

PL174688

PL173080

RU2094343

AU676009

JPH08509188

JPH08509189

CZ204095

NZ261329

SK98895

SK98995

CN1117722

CN1117723

BR9406401

KR19967000181

KR19967000182

KR960700181

CZ204195

BR9406119

EP0682624

EP0682625

PL309921

PL309922

NO952383

FI952691

NO952382

FI952690

NO952382

NO952383

FI952690

FI952691

FR2701248

US5402901
MX9306225
MX9306232
AU6002994
AU6003094
CA2151923
WO94/18084
WO94/18085
FR2701248
CA2107041
CA2107055

Publication dates

2000-11-16
2000-08-01
2000-05-31
2000-05-15
2000-04-26
1999-06-17
1999-04-16
1999-02-20
1999-02-11
1999-01-15
1998-12-30
1998-10-21
1998-09-10
1998-08-31
1998-01-30
1997-10-27
1997-02-27
1996-10-01
1996-10-01
1996-08-14
1996-05-28
1996-05-08
1996-05-08
1996-02-28
1996-02-28
1996-01-30
1996-01-19
1996-01-19
1996-01-19
1995-12-13
1995-12-12
1995-11-22
1995-11-22
1995-11-13
1995-11-13
1995-08-09
1995-08-08

1995-08-08

1995-08-07

1995-06-16

1995-06-16

1995-06-02

1995-06-02

1995-04-28

1995-04-04

1994-08-31

1994-08-31

1994-08-29

1994-08-29

1994-08-18

1994-08-18

1994-08-18

1994-08-12

1994-08-10

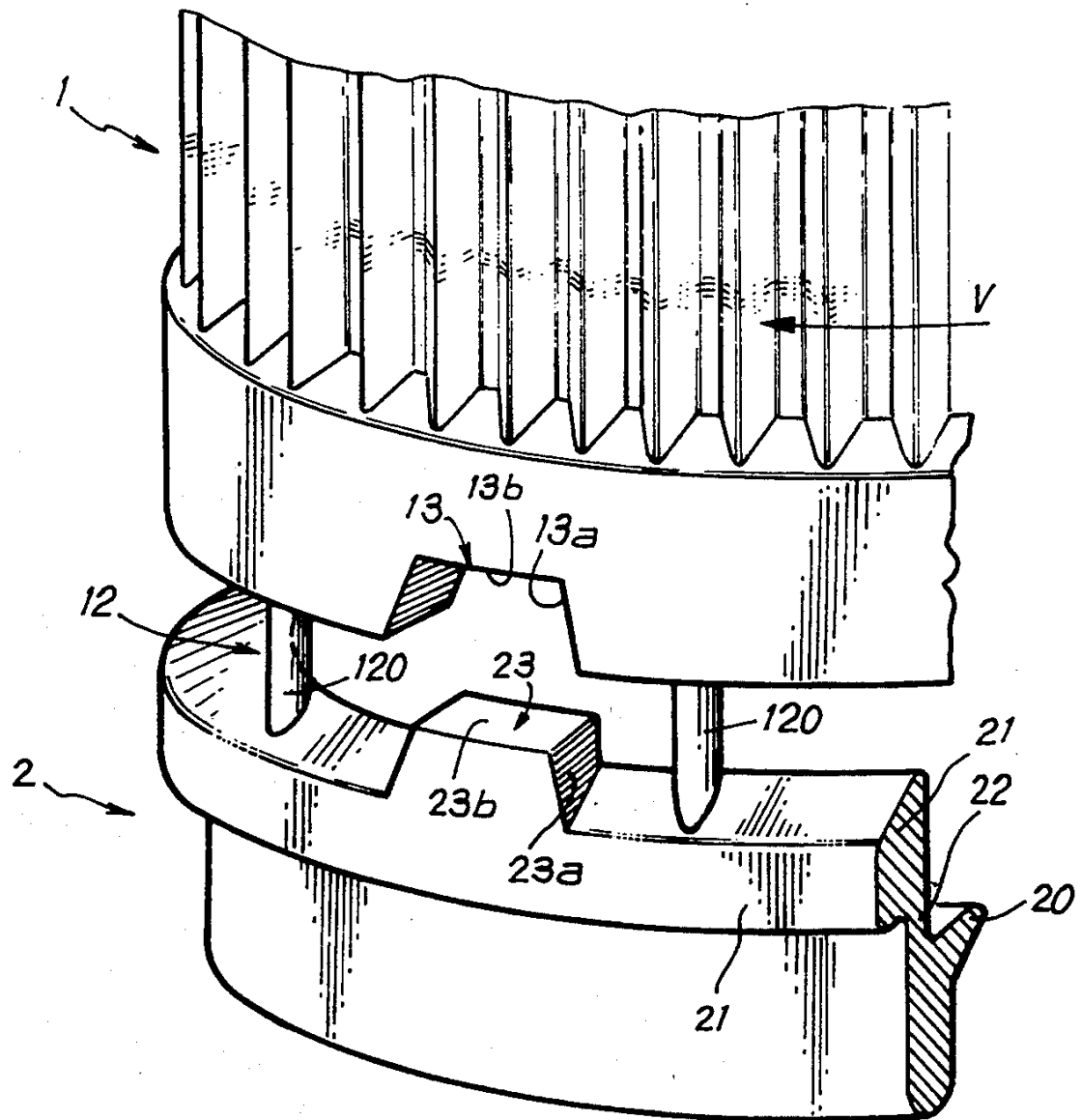
1994-08-10

Abstract

(EP0682625)

A **closure** device for a container with a threaded neck (G), including a threaded **cap** (1) with its lower portion connected to a **tamper**-proof strip (2) via a frangible portion (12), said strip (2) having a resiliently **deformable** inner ring-shaped rib (20) which snaps onto a fastening flange (C) around the lower circumference of the neck when the **cap** (1) is tightly screwed on (V), as well as an outer peripheral projection (21) separated from said rib by a controllable resiliently **deformable** portion (22). The upper surface of the projection (21) and the lower edge of the side wall of the **cap** (1) comprise at least one tooth (23) and/or at least one **recess** (13), said tooth being releasably engageable in said **recess** (13) when the **cap** is screwed on (V) and the rib (20) abuts the fastening flange (C) so that any relative movement of the **cap** (1) and strip (2) is prevented and the force required to **snap** on the **cap** is transferred without damaging said frangible portion (12).

Images



Family 6/7 - FAMPAT - ©Questel

Title

(EP2298663)

Closure device with an extensible **tamper** indicator

Publication numbers

AT549263

EP2275359

EP2298663

EP2275359

EP2298663

EP2275359

WO2010/066259

WO2010/066260

WO2010/066261

WO2010/066262

WO2010/066263

EA012805

EA200802321

Publication dates

2012-03-15

2012-03-14

2011-08-10

2011-05-25

2011-03-23

2011-01-19

2010-06-17

2010-06-17

2010-06-17

2010-06-17

2010-06-17

2009-12-30

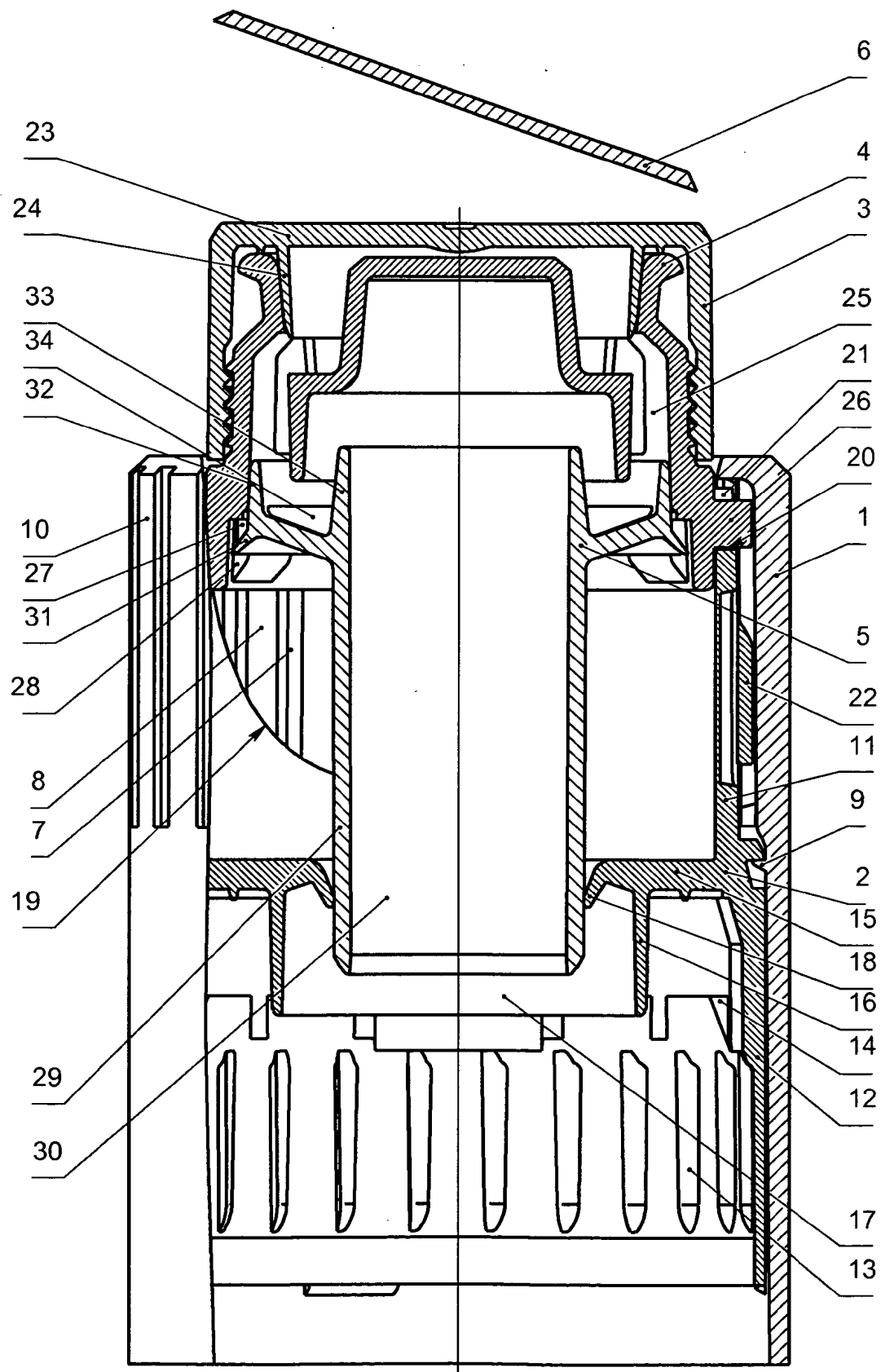
2009-12-30

Abstract

(EP2298663)

The **closure** with extensible **tamper-evident** means comprises an external sleeve made with fastening means to be fixed on the bottle, a base for a tight fitting in the bottleneck hole, and lifting bevel surfaces, whereas the exterior cylindrical surface of the discharge sleeve is furnished with guiding projections for axial advance along said bevel surfaces in direction of opening so as to enable it come outside the shutoff sleeve relative to the decorative casing, indicating thereby first opening of the bottle.

Images



Family 7/7 - FAMPAT - ©Questel

Title

(EP-270621)

Tamper-proof closure

Publication numbers

DE3782806

AT82730

EP0270621

AU608229

EP0270621

WO87/07584

AU7516887

WO87/07584

Publication dates

1993-01-07

1992-12-15

1992-11-25

1991-03-28

1988-06-15

1988-01-14

1988-01-11

1987-12-17

Abstract

(EP0270621)

Tamper-proof closure (1) consisting of a **closure cap** (2) with an internal thread and capable of being screwed on to a receptacle neck designed with a complementarily arranged matching thread and with an annular projection, particularly a transfer ring, provided under the matching thread, and consisting of a safety ring (10) which with its upper edge is joined via connection points and/or fracture points to the lower edge of the **closure cap** (2) in which **closure** at least two possibly mutually linked locking catches (17), which have ribs on their outer surfaces according to especially preferred designs, are extended, in the manufacturing position, downwards over the lower side of the safety ring (10) and whereby each locking catch (17) is connected individually with the lower side of the safety ring (10) by means of a hinge or film hinge (27). According to a preferred design the hinges or film hinges (27) are characterized in that the inner diameter of the locking catches (17) is slightly smaller than the outer diameter of the safety ring (10). The locking catches (17) are oriented inwards in order to engage the annular projection, in particular the transfer ring, said orienting being effected in particular by a specially-designed punch preferably between two defined end positions, whilst producing a pivoting resistance past a dead point; The locking catches, in this relative position, have, as a result of especially preferred designs, means which ensure the inward opening-out of the locking catches (17).

Images

