

Title (en)

Cap for writing instruments containing ink

Title (de)

Verschlusskappe für Schreibgeräte mit Tinte

Title (fr)

Capuchon pour instruments à écrire à encre

Publication

**EP 0433532 B1 19960703 (EN)**

Application

**EP 90104659 A 19900312**

Priority

- JP 14498989 U 19891218
- JP 32490189 A 19891216
- JP 32596089 A 19891218

Abstract (en)

[origin: EP0433532A1] Cap for writing instruments containing ink. The cap (1) is closed on all sides apart from an open insertion end (4) and comprises a safety ventilation device, which allows a flow of air along the cap (1), if the latter has lodged in a child's windpipe when swallowed accidentally. The safety ventilation device comprises an axial ventilation path (3, 6) on the outside of the cap, which along at least one part of its axial extent has an open cross-sectional configuration, so that a covering placed around the cap (1), corresponding to the windpipe, is prevented from pressing along the entire periphery of the cap (1) against its surface. On the contrary, at any axial point of the cap (1), a free cross-sectional area remains for the ventilation with a throughflow capacity which corresponds to the air requirement of a person. The ventilation path may comprise an axial perforation (3) in the base region (12) of a retaining clip (2) and the gap (6) between the retaining clip (2) and outer surface of the cap (1). It may also be formed by ribs extending axially and projecting radially from the outer surface of the cap (1) or by axial grooves in the surface of the cap. The cap (1) effectively prevents drying up of the tip (10) of the writing instrument (8) supplying ink. <IMAGE>

IPC 1-7

**B43K 23/12**

IPC 8 full level

**B43K 23/12** (2006.01)

CPC (source: EP)

**B43K 23/124** (2013.01); **B43K 23/126** (2013.01)

Cited by

DE9115124U1; US5632565A; EP0481479A1; US5316402A

Designated contracting state (EPC)

CH DE ES FR GB IT LI

DOCDB simple family (publication)

**EP 0433532 A1 19910626; EP 0433532 B1 19960703**; DE 69027657 D1 19960808; DE 69027657 T2 19961031; DE 69031182 D1 19970904; DE 69031182 T2 19980108; DE 69031741 D1 19980102; DE 69031741 T2 19980409; EP 0630761 A2 19941228; EP 0630761 A3 19950201; EP 0630761 B1 19971119; EP 0679538 A1 19951102; EP 0679538 B1 19970730; ES 2088912 T3 19961001; ES 2105796 T3 19971016; ES 2111222 T3 19980301

DOCDB simple family (application)

**EP 90104659 A 19900312**; DE 69027657 T 19900312; DE 69031182 T 19900312; DE 69031741 T 19900312; EP 94113647 A 19900312; EP 95103513 A 19900312; ES 90104659 T 19900312; ES 94113647 T 19900312; ES 95103513 T 19900312