

Title (en)
Pen with closing cap

Title (de)
Stift mit Verschlusskappe

Title (fr)
Crayon doté d'un clapet de fermeture

Publication
EP 2184180 A3 20120912 (DE)

Application
EP 09167608 A 20090811

Priority
DE 102008041282 A 20080815

Abstract (en)
[origin: US2010040404A1] A pen includes a shank that has a reservoir and an applicator tip for an application fluid that includes a solvent that is volatile at room temperature. The pen also includes a closure cap that is fitted onto the shank. The closure cap has a cavity that accommodates the applicator tip. The closure cap includes a storage chamber for accommodating a sacrificial liquid that is volatile at room temperature. The closure cap also has a connecting channel that communicates with the storage chamber and the cavity.

IPC 8 full level
B43K 23/12 (2006.01); **A45D 34/00** (2006.01)

CPC (source: EP US)
B43K 23/12 (2013.01 - EP US); **A45D 34/04** (2013.01 - EP US); **A45D 2034/002** (2013.01 - EP US); **A45D 2200/1018** (2013.01 - EP US)

Citation (search report)

- [X] US 5971647 A 19991026 - LOULOURGAS DEMETRE [US]
- [A] US 6102602 A 20000815 - KAGEYAMA HIDEHEI [JP], et al
- [A] DE 202005005043 U1 20060810 - SCHWAN STABILO COSMETICS GMBH [DE]
- [A] DE 3441435 A1 19850801 - PELIKAN AG [DE]

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
US 2010040404 A1 20100218; US 8282302 B2 20121009; DE 102008041282 A1 20100225; DE 102008041282 B4 20170119; EP 2184180 A2 20100512; EP 2184180 A3 20120912; EP 2184180 B1 20150225; ES 2534236 T3 20150420

DOCDB simple family (application)
US 54224509 A 20090817; DE 102008041282 A 20080815; EP 09167608 A 20090811; ES 09167608 T 20090811