

Title (en)  
Writing implement with two writing elements

Title (de)  
Handschreibgerät mit zwei Schreib- oder Auftragselementen

Title (fr)  
Instrument pour écrire avec deux éléments pour écrire

Publication  
**EP 0587103 B1 19971229 (DE)**

Application  
**EP 93114302 A 19930907**

Priority  
DE 4230432 A 19920911

Abstract (en)  
[origin: US5338123A] A double-ended pen has a pair of elongated liquid-holding reservoirs each having a rear end, a front end having a liquid-applying tip, an intermediate portion between the ends and having at the rear end a predetermined relatively small outside diameter, and a snap-type retaining formation. An intermediate coupling sleeve has a pair of oppositely open seats each receiving a respective one of the rear ends and provided with formations for retaining the respective rear ends securely against axial displacement. The sleeve also has a pair of axially opposite ends having axially oppositely directed end surfaces each having a portion extending at an acute angle to a plane perpendicular to the axis. The sleeve ends are of a diameter greater than the outside diameter of the intermediate portions and projecting radially therepast when the respective rear ends are fitted in the seats. A pair of respective caps each adapted to fit over a respective one of the reservoirs each have a rear end substantially of the same diameter as the respective rear end of the sleeve and having an end surface with a surface portion complementary to the inclined portion of the respective sleeve end surface and engageable flush and complementarily therewith in a mounted position of the cap on the respective reservoir. Each cap further has an internal snap-type retaining formation complementary to and engaged with the snap-type retaining formation of the respective reservoir in the mounted position of the cap.

IPC 1-7  
**B43K 23/00**; **B43K 23/12**

IPC 8 full level  
**B43K 27/00** (2006.01); **B43K 23/00** (2006.01); **B43K 23/06** (2006.01); **B43K 23/08** (2006.01); **B43K 23/12** (2006.01)

CPC (source: EP US)  
**B43K 23/06** (2013.01 - EP US); **B43K 23/12** (2013.01 - EP US)

Cited by  
EP0778160A4

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB GR IT LI NL SE

DOCDB simple family (publication)  
**US 5338123 A 19940816**; AT E161489 T1 19980115; DE 4230432 C1 19931007; DE 59307880 D1 19980205; EP 0587103 A1 19940316; EP 0587103 B1 19971229; ES 2112939 T3 19980416; JP 2503196 B2 19960605; JP H07290886 A 19951107

DOCDB simple family (application)  
**US 12089693 A 19930913**; AT 93114302 T 19930907; DE 4230432 A 19920911; DE 59307880 T 19930907; EP 93114302 A 19930907; ES 93114302 T 19930907; JP 22320193 A 19930908