

Title (en)
A simplified-assembly ball point pen.

Title (de)
Kugelschreiber mit vereinfachter Montage.

Title (fr)
Stylo à bille à assemblage simplifié.

Publication
EP 0624484 A1 19941117 (EN)

Application
EP 94105441 A 19940408

Priority
IT TO930331 A 19930512

Abstract (en)
The ball point pen comprises an elongate, hollow barrel (10), a tubular element (12) arranged coaxially within the upper portion of the barrel (10), a writing point (18) and a push-button (22) arranged to control the extension/withdrawal of the writing point (18) relative to the barrel (10). At least one longitudinal rib (40) and an annular projection (42) are formed either on the inner surface of the sleeve (24) of the push-button (22) or on the outer surface of the tubular element (12) and, correspondingly, at least one raised, shaped element (44) is formed either on the outer surface of the tubular element (12) or on the inner surface of the sleeve (24) so as to interfere radially with the annular projection (42) and to define at least one longitudinal groove (46) adapted to form a seat for the rib (40) when the sleeve (24) is fitted onto the tubular element (12). <IMAGE>

IPC 1-7
B43K 24/08

IPC 8 full level
B43K 24/08 (2006.01); **G09F 23/00** (2006.01)

CPC (source: EP)
B43K 24/084 (2013.01); **G09F 2023/0016** (2013.01)

Citation (search report)

- [Y] EP 0538503 A1 19930428 - KOTOBUKI & CO LTD [JP]
- [Y] US 3318289 A 19670509 - WILLIAM MARYNISSEN
- [A] US 4991988 A 19910212 - SNELL THOMAS G [US], et al
- [A] US 5004364 A 19910402 - TOMURA YOSHIHIRO [JP], et al
- [A] FR 1439827 A 19660527 - FAGARD A J & CIE

Cited by
FR2890198A1; WO0148859A1; WO9847199A1

Designated contracting state (EPC)
AT CH DE ES FR GB LI NL

DOCDB simple family (publication)
EP 0624484 A1 19941117; EP 0624484 B1 19970723; AT E155746 T1 19970815; DE 69404378 D1 19970904; DE 69404378 T2 19971113; ES 2105395 T3 19971016; HK 1013051 A1 19990813; IT 1270936 B 19970516; IT TO930331 A0 19930512; IT TO930331 A1 19941112; SI 0624484 T1 19980430

DOCDB simple family (application)
EP 94105441 A 19940408; AT 94105441 T 19940408; DE 69404378 T 19940408; ES 94105441 T 19940408; HK 98114211 A 19981221; IT TO930331 A 19930512; SI 9430064 T 19940408