

Title (en)  
Closure for vial

Title (de)  
Verschluss für Phiolen

Title (fr)  
Fermeture pour flacons

Publication  
**EP 1182143 A3 20020508 (EN)**

Application  
**EP 01120237 A 20010823**

Priority  
JP 2000254854 A 20000825

Abstract (en)  
[origin: EP1182143A2] A closure (10) for a vial (20) includes a head portion (11) and a stem portion (12) which projects from a lower surface of the head portion (11), the stem portion (12) being inserted in an opening (21) of a vial (20); wherein the stem portion (12) is provided with a small diameter portion (15) and a seal portion (13), in that order from the lower surface of the head portion (11), the diameter of the small diameter portion (15) being smaller than the diameter of the seal portion (13). The entirety of the small diameter portion (15) and the seal portion (13) are substantially uniformly fitted in the opening (21) of the vial (20). <IMAGE>

IPC 1-7  
**B65D 39/00**; **B65D 39/16**

IPC 8 full level  
**A61J 1/05** (2006.01); **B01L 3/14** (2006.01); **B65D 39/16** (2006.01)

CPC (source: EP US)  
**B01L 3/50825** (2013.01 - EP US); **B65D 39/0023** (2013.01 - EP US); **B65D 39/16** (2013.01 - EP US)

Citation (search report)

- [X] DE 8716988 U1 19890420
- [X] US 4230231 A 19801028 - BURNETT ROBERT R, et al
- [X] US 3136440 A 19640609 - KRUG ALBERT E, et al
- [X] US 4444330 A 19840424 - KASAI MASAOKI [JP], et al

Cited by  
CN103211702A

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**EP 1182143 A2 20020227**; **EP 1182143 A3 20020508**; CA 2354874 A1 20020225; JP 2002065809 A 20020305; US 2002023893 A1 20020228

DOCDB simple family (application)  
**EP 01120237 A 20010823**; CA 2354874 A 20010808; JP 2000254854 A 20000825; US 93206601 A 20010817