

Title (en)  
Cartridge

Title (de)  
Kartusche

Title (fr)  
Cartouche

Publication  
**EP 1849529 A1 20071031 (EN)**

Application  
**EP 07007992 A 20070419**

Priority  
GB 0608096 A 20060425

Abstract (en)  
A cartridge arrangement (10) comprises a frangible portion (12) and a guide tube (14). The frangible portion (12) being substantially housed within the guide tube (14) with an end (22) of the frangible portion (12) being seated by a clip (24). A cap (16) attaches to an end of the guide tube (14) by a screw thread. Unscrewing of the cap (16) urges arms (50,52), having a portion seated behind the clip (24), away from the guide tube (14) thereby opening the frangible portion (12).

IPC 8 full level  
**B05C 17/005** (2006.01)

CPC (source: EP GB US)  
**B05C 17/005** (2013.01 - GB); **B05C 17/00583** (2013.01 - EP US); **B65D 83/0072** (2013.01 - EP US); **B65D 75/58** (2013.01 - EP US)

Citation (search report)

- [DX] EP 0754633 A2 19970122 - EXCHEM PLC [GB]
- [X] US 4340154 A 19820720 - VANMANEN DICK T
- [X] EP 0541972 A1 19930519 - THERA GES FUER PATENTE [DE]
- [A] US 6158621 A 20001212 - KELLER WILHELM A [CH]
- [A] DE 29813684 U1 19981217 - VOCO GMBH [DE]
- [A] WO 9806506 A1 19980219 - MUEHLBAUER ERNST [DE]
- [A] EP 0941941 A1 19990915 - SICPA HOLDING SA [CH]
- [A] EP 0319666 A1 19890614 - KNIERIEM GUNTHER
- [A] DE 3500625 A1 19850829 - KNIERIEM GUENTER DIPL ING FH [DE]

Cited by  
EP1854737A3

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1849529 A1 20071031**; GB 0608096 D0 20060531; GB 2437596 A 20071031; US 2007257068 A1 20071108

DOCDB simple family (application)  
**EP 07007992 A 20070419**; GB 0608096 A 20060425; US 73892207 A 20070423