

Title (en)
Dispenser

Title (de)
Auftraggerät

Title (fr)
Applicateur

Publication
EP 1602298 B1 20121003 (DE)

Application
EP 04013254 A 20040604

Priority
EP 04013254 A 20040604

Abstract (en)
[origin: EP1602298A1] The dispenser has a storage for containing a product (12) in the free-form, and an outlet (18) for discharging the product. A plug (20) completely closes a straight way of the product from the storage to the outlet in one operating condition. The plug includes a wall that traverse to the straight way, and a passage that traverse to the wall. The passage is closed in the condition and is partially opened in another operating condition.

IPC 8 full level
A45D 34/04 (2006.01); **A45D 40/20** (2006.01); **A45D 40/26** (2006.01); **B05C 11/00** (2006.01); **F04B 1/00** (2006.01)

CPC (source: EP US)
A45D 34/04 (2013.01 - EP US); **A45D 40/20** (2013.01 - EP US); **A45D 40/205** (2013.01 - EP US); **A45D 40/26** (2013.01 - EP US);
A45D 2040/207 (2013.01 - EP US)

Citation (examination)
US 5490736 A 19960213 - HABER TERRY M [US], et al

Cited by
DE102006013787B4

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

DOCDB simple family (publication)
EP 1602298 A1 20051207; EP 1602298 B1 20121003; US 2005281609 A1 20051222; US 7396180 B2 20080708

DOCDB simple family (application)
EP 04013254 A 20040604; US 14413605 A 20050602