

Title (en)

Refill cartridge for refilling rotative adhesive sticks

Title (de)

Nachfüllkartusche zum Wiederauffüllen drehbar gelagerter Klebestifte

Title (fr)

Cartouche-recharge pour réapprovisionnement de bâtons adhésifs rotatifs

Publication

EP 0697182 A3 19991103 (DE)

Application

EP 95112414 A 19950807

Priority

DE 4429226 A 19940818

Abstract (en)

[origin: EP0697182A2] Inside the cartridge sleeve (8) at an open end is an integral holder (1) with bristles (3) for the adhesive mass. The holder has a central inner thread (6) for engaging the central threaded spindle of the original glue pen (14). The adhesive mass in the cartridge sleeve has a central recess for inserting the threaded spindle. The sleeve can be connected to the holder by at least two pref. six plastics ribs (4) arranged on the inner wall. The ribs can be ideal break points between the sleeve and holder.

IPC 1-7

A45D 40/04; **A45D 40/16**

IPC 8 full level

B43M 11/00 (2006.01); **A45D 40/04** (2006.01); **A45D 40/16** (2006.01)

CPC (source: EP)

A45D 40/04 (2013.01); **A45D 40/16** (2013.01); **A45D 2040/0062** (2013.01)

Citation (search report)

- [PX] DE 9413203 U1 19941006 - UHU GMBH [DE]
- [X] FR 1008965 A 19520523
- [X] DE 9217456 U1 19930225
- [A] DE 4120969 A1 19920521 - HENKEL KGAA [DE]
- [A] DE 9209241 U1 19921029
- [A] DE 9201987 U1 19930609
- [A] US 4890944 A 19900102 - COUSINS MICHAEL A [US], et al

Cited by

EP4108131A1; EP1769698A1; US11213108B2; US9950854B2; WO2007093286A3; WO2018049039A1; WO0203830A1

Designated contracting state (EPC)

AT ES FR GB IT NL

DOCDB simple family (publication)

EP 0697182 A2 19960221; **EP 0697182 A3 19991103**; **EP 0697182 B1 20020109**; AT E211627 T1 20020115; DE 4429226 A1 19960222; JP H0858293 A 19960305; PL 177043 B1 19990930; PL 309805 A1 19960219

DOCDB simple family (application)

EP 95112414 A 19950807; AT 95112414 T 19950807; DE 4429226 A 19940818; JP 21074895 A 19950818; PL 30980595 A 19950727