



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 470 932 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
27.10.2004 Bulletin 2004/44

(51) Int Cl.7: **B43M 11/06**

(21) Application number: **03025532.7**

(22) Date of filing: **07.11.2003**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PT RO SE SI SK TR**
Designated Extension States:
AL LT LV MK

(72) Inventor: **Pelosin, Luca**
20092 Cinisello Balsamo Milano (IT)

(74) Representative: **Cicogna, Franco**
Ufficio Internazionale Brevetti
Dott.Prof. Franco Cicogna
Via Visconti di Modrone, 14/A
20122 Milano (IT)

(30) Priority: **01.04.2003 IT mi20030147**

(71) Applicant: **Nuova Alpa Collanti S.r.L.**
20040 Colnago (Milano) (IT)

(54) **Plug for adhesive material holding casing**

(57) A plug construction (1) specifically designed for application to adhesive material holding sticks (2), comprises latching means (11) for latching the plug (1) to a bottom ring-nut (4) of an adhesive holding casing (2).

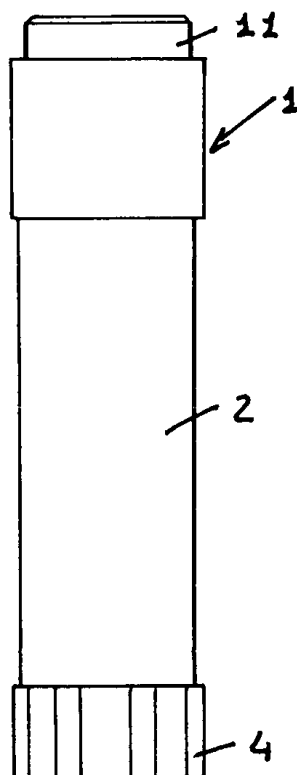


Fig. 1

EP 1 470 932 A1

Description

BACKGROUND OF THE INVENTION

[0001] The present invention relates to a plug construction, specifically designed for application to adhesive holding casings.

[0002] As is known, there are available on the market adhesive holding casings, the so called "sticks", which contain therein adhesive materials in a solid or paste status, said sticks being primarily used in office applications.

[0003] Said casings have a cylindrical configuration and conventionally comprise a top plug and a bottom ring-nut, which is rotated for causing the adhesive material to progressively project from the casing, for its application.

[0004] For using the adhesive material casing, it is necessary to remove therefrom a protective and closing plug which, as the adhesive material is not used, prevent said adhesive material from being dried upon contacting air, thereby losing its adhesive properties.

[0005] Prior adhesive material casings or sticks are affected by the drawback that they are provided with removable caps which, upon removal, must be held in a hand, or supported on a table surface or other supporting element, and this, frequently, at a place remote from the adhesive application place, typically for sealing envelopes or the like.

[0006] Thus, frequently an user can lose the casing plug, thereby leaving the adhesive material casing free of its covering plug, with the consequence that the adhesive properties of the adhesive material are negatively affected.

SUMMARY OF THE INVENTION

[0007] Accordingly, the aim of the present invention is to provide such a plug construction specifically designed for overcoming the above mentioned drawbacks affecting prior adhesive casings or sticks.

[0008] Within the scope of the above mentioned aim, a main object of the present invention is to provide such a plug construction which can be always held in a ready for use condition, without hindering the glueing operations.

[0009] Another object of the invention is to provide such a plug construction which can be made by using available materials and apparatus.

[0010] Yet another object of the present invention is to provide such a plug construction which is very competitive from a mere economic standpoint.

[0011] According to one aspect of the present invention, the above mentioned aim and objects, as well as yet other objects, which will become more apparent hereinafter, are achieved by a plug construction, for application to adhesive material holding casings, characterized in that said plug construction comprises remov-

able latching means, for removably latching the plug construction to a bottom ring-nut element of an adhesive material containing casing.

BRIEF DESCRIPTION OF THE DRAWINGS

[0012] Further characteristics and advantages of the present invention will become more apparent hereinafter from the following detailed disclosure of a preferred, though not exclusive, embodiment of the invention, which is illustrated, by way of an indicative but not limitative example, in the accompanying drawings, where:

Figure 1 is a side elevation view of an adhesive material casing or stick including the plug construction according to the present invention, shown in a closed condition thereof;

Figure 2 is a further side elevation view, as partially cross-sectioned, of an adhesive casing or stick, including that same plug construction, shown in its open condition;

Figure 3 is a perspective view of the casing-plug assembly, with the plug being shown in a closure condition thereof;

Figure 5 is a further perspective view of the casing-plug assembly, the plug being shown in an opened position thereof; and

Figure 5 is an exploded perspective view of the casing-plug assembly according to the invention.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0013] With reference to the number references of the above mentioned figures, the plug construction, according to the present invention, which has been generally indicated by the reference number 1, has been specifically designed for application to an adhesive material casing or stick 2, comprising a cylindrical hollow casing body, for holding therein an adhesive material 3, in a paste or solid condition.

[0014] The casing 2 comprises, at the bottom thereof, a hollow ring-nut 4 which can be rotated for causing a screw element, not shown, to affect the adhesive material 3 to cause the latter to exit from the top of the casing.

[0015] As shown, the ring-nut 4 is provided with an inner cylindrical seat or recess 5, possibly provided with longitudinal ridges 6.

[0016] At the top thereof, the cylindrical body 2 comprises a cylindrical cut-out 7 including a ring-like ridge 8, thereby firmly and removably receiving the plug 1.

[0017] According to the invention, the plug 1 comprises, at the top thereof, a cylindrical portion 11 which has a diameter similar to that of the cylindrical inner seat or recess 5 of the ring-nut 4, thereby, upon removing the plug 1 from the top of the casing, said cylindrical portion 11 can be engaged in the inner cylindrical seat 5 to removably connect the plug 1 to the bottom ring-nut 4.

[0018] Thus, it is possible to conventionally use the

adhesive casing for performing any desired glueing operation, while holding its plug connected thereto.

[0019] It has been found that the invention fully achieves the intended aim and objects.

[0020] In fact, the invention provides a plug construction which is always held connected to its casing, even in the operating condition of the latter, without preventing the casing from being properly used. 5

[0021] In particular, upon ending the glueing operation, the plug can be removed from the ring-nut and applied to the top of the casing to reclose it. 10

[0022] In practicing the invention, the used materials, as well as the contingent size and shapes, can be any, depending on requirements and the status of the art. 15

Claims

1. A plug construction, specifically designed for application to adhesive material holding casings, **characterized in that** said plug construction comprises removable latching means for removably latching said plug construction to a bottom ring-nut element of the adhesive holding casing. 20
2. A plug construction, according to Claim 1, **characterized in that** said casing comprises a casing cylindrical hollow body, for holding therein an adhesive material, in a paste or solid condition, and comprising, at the bottom thereof, a ring-nut element, also of hollow shape, which can be rotated for causing the adhesive material to exit the top of the casing, said ring-nut element having a cylindrical inner seat and said plug construction comprising, at the top thereof, a cylindrical plug portion having a diameter similar to that of said cylindrical inner seat or recess of said ring-nut element thereby, upon removing said plug construction from the top of said casing, said cylindrical portion can be engaged in said cylindrical inner seat to removably connect said plug construction to said bottom ring-nut element. 25 30 35 40
3. A plug construction, according to Claim 2, **characterized in that** said cylindrical inner seat of said ring-nut element comprises longitudinal ridge elements. 45
4. A plug construction, according to one or more of the preceding claims, **characterized in that**, at a top thereof, said cylindrical body comprises a cylindrical cut-out having a ring-like ridge, to firmly and removably engage therein said plug construction. 50
5. A plug construction, according to one or more of the preceding claims, **characterized in that** said plug construction comprises one or more of the disclosed and/or illustrated features. 55

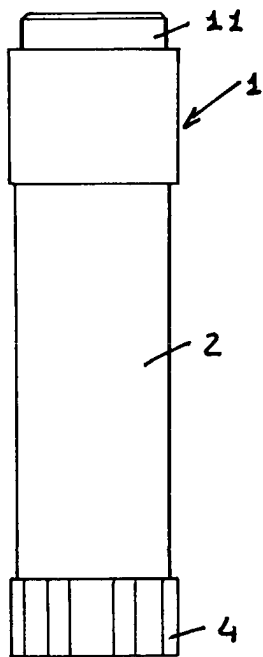


Fig. 1

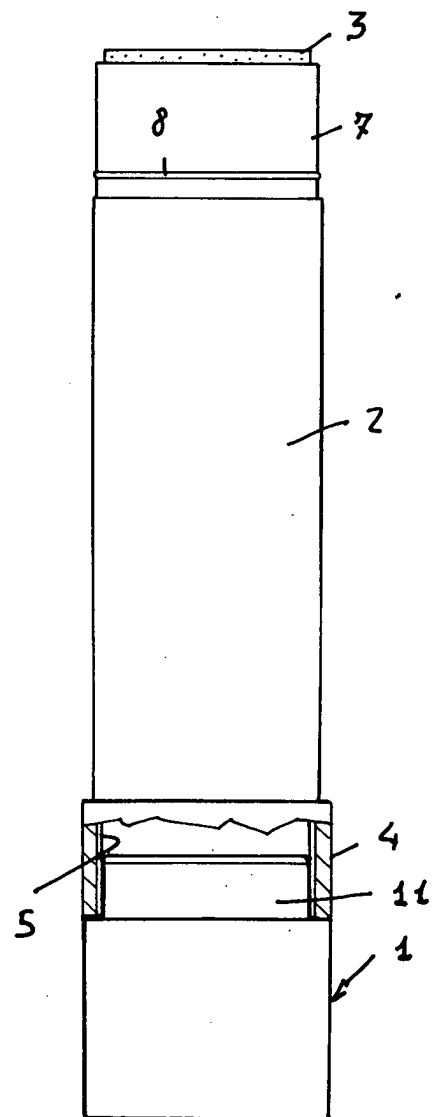


Fig. 2

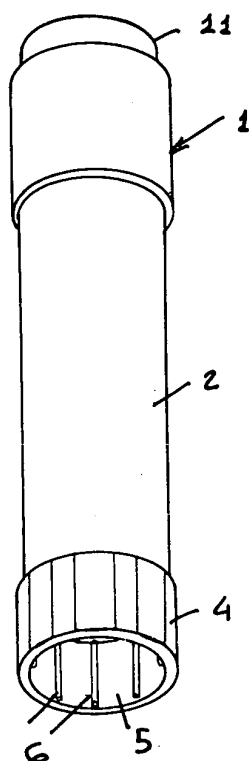


Fig. 3

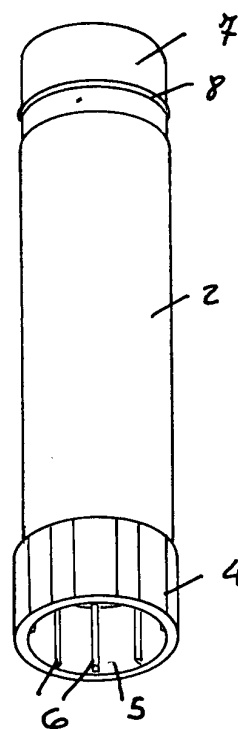
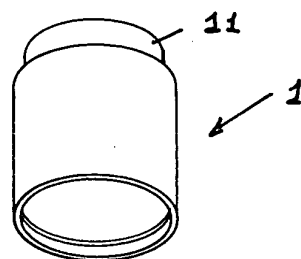


Fig. 5

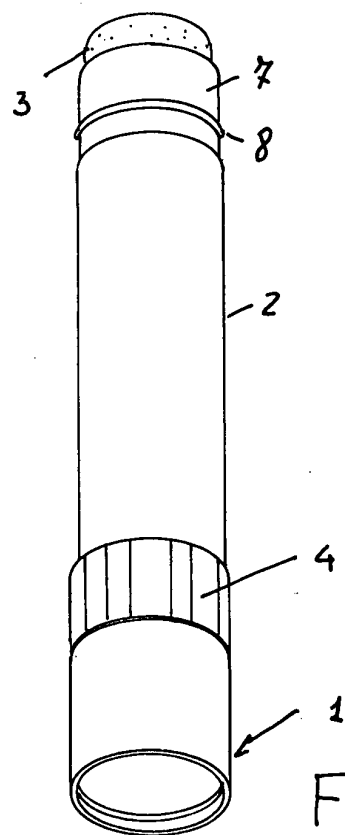


Fig. 4



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 03 02 5532

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	WO 02/24547 A (MURA NOBUYUKI ; OBA SHIGEKI (JP); OSADA TAKAHIRO (JP); MITSUBISHI P) 28 March 2002 (2002-03-28) * abstract; figures *	1	B43M11/06
Y	FR 589 531 A (BINDER THEODOR WALTER) 30 May 1925 (1925-05-30) * the whole document; figures *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			B43M
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 30 July 2004	Examiner Louvion, B
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 02 5532

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-07-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0224547 A	28-03-2002	JP 2002086989 A	26-03-2002
		JP 2002086991 A	26-03-2002
		JP 2002128159 A	09-05-2002
		AU 5877801 A	02-04-2002
		WO 0224547 A1	28-03-2002

FR 589531 A	30-05-1925	NONE	
