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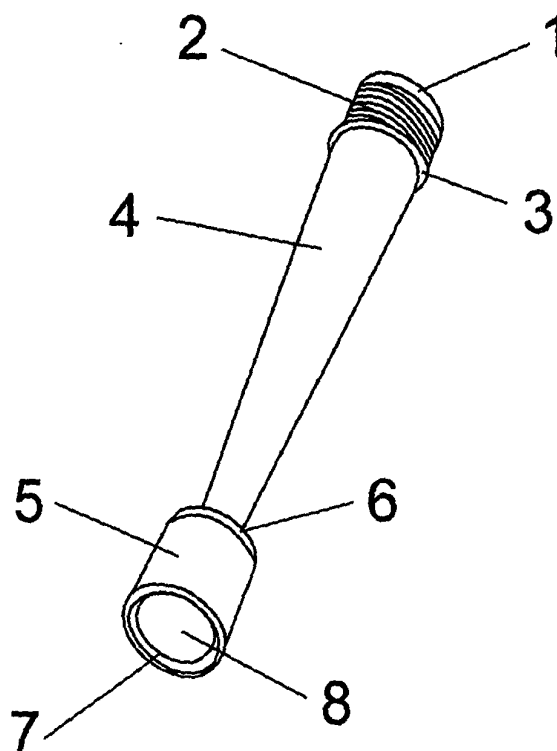
(54) **Hood for application of silicone to protect rivets and screws**

(57) This hood to applicate silicones or sealing materials has been designed for the purpose of protecting rivets and screws against corrosion (the most dangerous enemy of aviation).

This device can adapt every cartridge we can find within the market by a thread. Its size also can be adapted to every size of different rivets and screws, giving it the perfect form to adjust it to those rivets and screws. It comprises a conic 'mouth piece' (4) with a 'small bell' (5) at its end and is a tool to incapsule (cloak) making a capsule of sealing material or silicone and covering these rivets and screws to isolate them from humidity of water, hydraulic fluids, etc.

It has been thought like a disposable device, because of its low cost and of safety and hygienical working. It has the advantage, against other similar devices within the market, it is a one-piece-only' tool, so you can't separate it by manipulation during the work, like in other cases. Moreover, you don't need to clean it for example with MEK, ACETONES, etc.

FIGURA 2



Description

INVENTION'S OBJECT

[0001] This invention is described in the main title of this descriptive report; it refers to a small hood to apply different silicones and sealing materials.

[0002] This hood of plastic stuff has been designed to incapsule (cloak) rivets and screws, it has been especially thought for aviation (planes) to protect against galvanic corrosion. For this purpose, the companies will use the homologated stuff for this hood (sealing materials and silicones) we can find within the market. The application can be done by hand or mechanical air gun.

INVENTION'S ANTECEDENTS

[0003] This tool or instrument is a plastic hood with one millimetre in thickness in the entire outline. It has a male thread for the purpose of adapting it in every cartridge we can find within the market for this application. The hood has a thimble-like shape for the purpose of getting the incapsuled (cloaked) uniform (homogeneous)

[0004] This device has the advantage of being "one-piece-only". The difference: we can incapsule (cloak) rivets and, when we have finished, we can also cut the small hood ("small bell") and use the "mouth-piece" for the application of security "strings". This "strings" are used to sealed the joints of/between ribs, supports, panels, etc. It has the same purpose that the small hood ("small bell"), that is to say to protect against galvanic corrosion.

INVENTION'S DESCRIPTION

[0005] The device structure consists in one "mouth-piece" and one hood in "one-piece-only". It is displaying (showing) like one fastening thread, one "mouth-piece" and one hood.

[0006] To complete this description (for the purpose of getting a better and detailed comprehension of this device) we showed (displayed) a collection of pictures and planes on the basis of different figures to comprehend easily this tool's innovation.

FIGURES' DESCRIPTION

[0007]

·FIGURE 1: It presents a sectioned view of the capsule that apply the sealing materials or silicones made of plastic stuff (polypropylene or similar stuff) with one millimetre in thickness in the whole outline, and in "only-one-piece". The length of the capsule, the inner diameter and the outer diameter depend on the rivets or screws we will incapsule (cloak).

·FIGURE 2: It shows a perspective view of the model, giving a general idea about the finished tool.

DESCRIPTION OF A PREFERABLE WAY OF MAKING

[0008] In FIGURE 1's view we can see a cross section view of the device. By this way, we can notice the inner zone (inner side) of the "mouth-piece", giving us a clear idea about the way the product make, and it just being able to adapt to different cartridges we can find within the market.

[0009] The capsule's diameters can change depending on the size of the rivets or screws we will incapsule (cloak).

[0010] In FIGURE 2's view we can see a perspective view, so we can see the piece at the end of the process. This piece is very important, because the sealing material is the best protection against corrosion. This device gets a faster and more quality job and also a more safety and hygienical process, because of its disposable condition. This happens because it is cheaper using a new "mouth-piece" than cleaning the old used one with MEK, dissolving products, etc. that are very abrasive for human skin.

Claims

1. Device with a "mouth-piece" like a "small bell" or hood; it is "only-one-piece": (1) In the widest part of the "mouth-piece" (the upper zone) it has a "low-zone (valley)" that helps us like a "guide" to insert the different cartridges we can find within the market. (2) It has a "thread crossing" to join the "mouth-piece" and the different cartridges we can find in the market, with the possibility to change that "thread crossing" for every cartridge we want to adapt. (3) For the purpose of easing the device's thread, it has a ring in the widest part of the "mouth-piece" to give it more resistance and fix the thread locking to get a perfect coupling. (4) This is a conic kind "mouth-piece" for the purpose of giving it more flexibility and being more dynamic. (5) Next to the "mouth-piece", we show a "small bell" (hood) or conic capsule, giving it that form because of the kind of work this kind of tool is going to make. (6) In the narrowest part of the hood or "small bell", it gets convex for the purpose of breaking the lines and, in case we need fastening it sometime, giving an easier fastening. (7) The inner zone gets convex for the purpose of chamfering the final job (giving chamfered form to rivets and screws cloaking). (8) The inner zone is completely empty. (9) This is the hole that joins the "mouth-piece" and the "small bell" (hood or "capsule of sealing material") together.

FIGURA 1

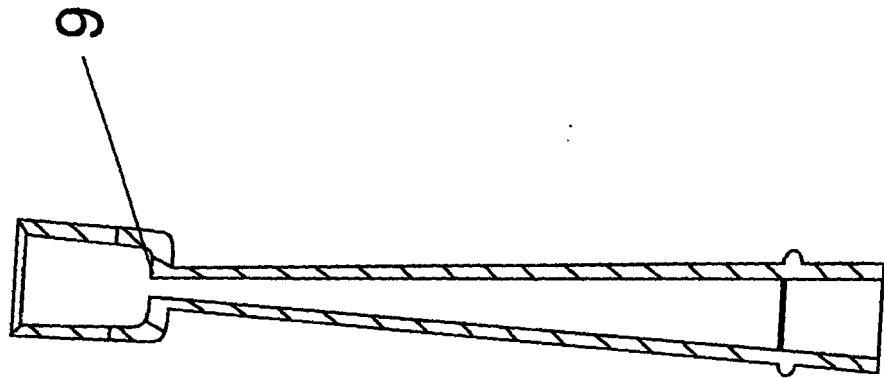
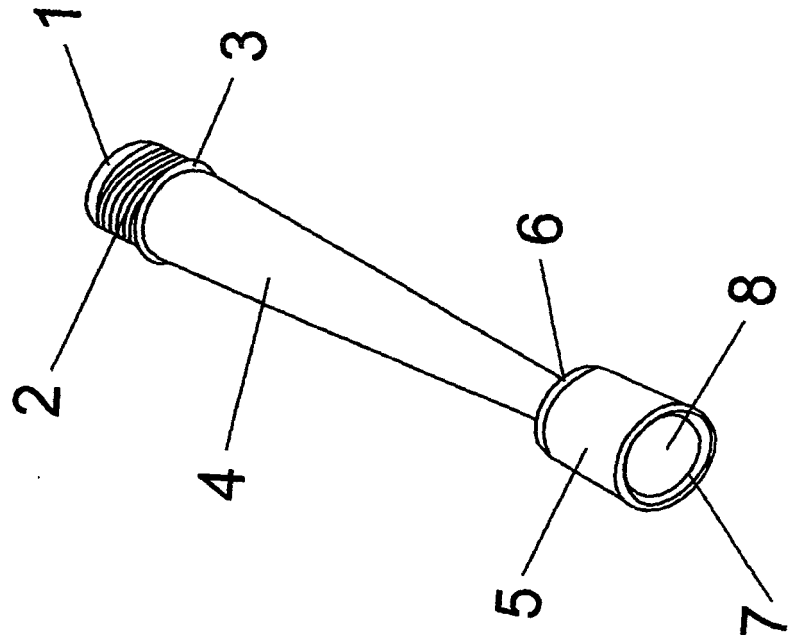


FIGURA 2





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 299 02 155 U1 (KASCHKAT CHRISTIAN [DE]) 10 August 2000 (2000-08-10) * figure 4 *	1	INV. B05C17/005
X	DE 202 06 068 U1 (KAPELA ZENON [DE]) 18 July 2002 (2002-07-18) * figures *	1	
X	US 4 946 081 A (JACOBSON LAWRENCE R [US]) 7 August 1990 (1990-08-07) * figure 5 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			B05C
Place of search		Date of completion of the search	Examiner
Munich		25 June 2007	Pöll, Andreas
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			

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

EP 06 38 0279

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
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25-06-2007

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DE 29902155	U1	10-08-2000	NONE	
DE 20206068	U1	18-07-2002	NONE	
US 4946081	A	07-08-1990	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82