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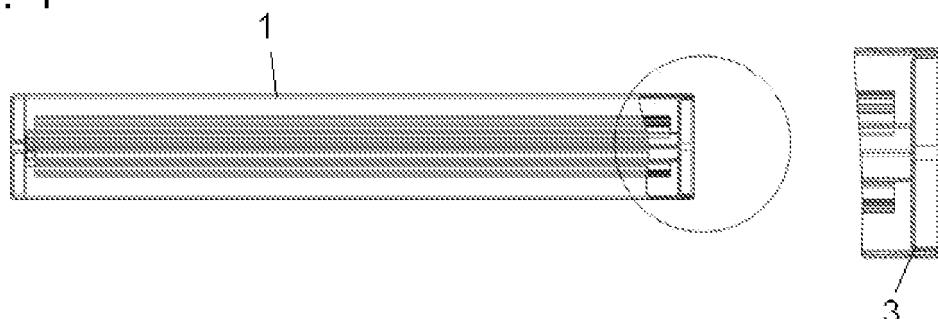
(54) **PAPER DISPENSER**

(57) The invention relates to a paper dispenser, comprising two concentric tubes (1-2), both provided with a longitudinal window (11-21). The inner tube has a series of sheets of paper (4) folded into a horseshoe shape and facing one another, forming a stack from which the sheets are extracted one by one by pulling the top sheet which projects through a longitudinal opening (21). Two side

covers (3) close said inner cylinder, hold the group of sheets of paper (4) therein and allow gripping it with only two fingers while the outer surrounding tube (1) is rotated in order to place the grooves (11-21) facing one another when a sheet of paper is to be extracted, or to conceal the inner groove (21) in the blind area of the outer cylinder (1) so as to also conceal the end of the paper (4) and prevent its extraction in that position.



Fig. 1



Description**Object of the Invention**

[0001] The present invention relates to a paper dispenser, of the type in which the product is folded in successive sheets, facing and overlapping one another, forming a stack from which the sheets are extracted one by one by pulling the top sheet.

Background of the Invention

[0002] There are currently different types of paper dispensers for dispensing either napkins, toilet paper or smoking paper. The successive sheets to be dispensed are either attached to one another by a perforated line or they are linked together, overlapping one another, as in the case of the invention.

Description of the Invention

[0003] The dispenser of the invention is formed by two concentric cylindrical tubes both provided with a generating window, inside which there are arranged sheets of paper folded into a horseshoe shape, such that the convex area is facing the generating opening of the inner cylinder, whereas the ends of the horseshoe are located towards the inner part of the mentioned inner tube.

[0004] The inner tube internally has a longitudinal guide, diametrically opposite the aforementioned opening, which allows placing the paper folded into a horseshoe shape as previously mentioned, such that the end of the outer sheet of paper slightly projects through the generating window.

[0005] This guide inside the inner tube has optionally been eliminated, in which case this element must have a configuration having a non-cylindrical geometric section in order to internally have edges which immobilize the sheets of paper in the mentioned position, folded into a horseshoe shape with the convex area arranged towards the longitudinal groove. In this case the outer tube will also be replaced with a laterally hinged cover.

[0006] The inner tube has respective side covers which hold the sheets of paper in place therein and allow, when grabbing it with the index finger and thumb placed on them, rotating the outer surrounding tube until the grooves are facing one another in a normal operating situation in order to be able to extract one of the sheets of paper from therein; or, with these grooves misaligned, i.e., with the inner groove concealed in the blind area of the outer cylinder, also covering the end of the paper and preventing its extraction.

Description of the Drawings

[0007] In order to complement the description that is being made and for the purpose of aiding to understand the features of the invention, a set of drawings is attached

to the present specification in which the following has been shown with an illustrative and non-limiting character:

5 Figure 1 shows a side elevational view and respective sections indicated in said view.
 Figure 2 shows respective perspective views of the mentioned device in the operating position and with its parts shown in exploded view.
 10 Figure 3 shows a perspective view of an embodiment variant of a dispenser of this type.

Preferred Embodiment of the Invention

15 **[0008]** As can be seen in the mentioned figures, the device of the invention comprises two elements in the form of hollow cylindrical tubes respectively referenced as outer tube (1) and inner tube (2). Both tubes have grooves or a generating window, respectively referenced as (11) and (21).
 [0009] As can be seen in Figures 1 and 2, the inner tube (2) also has a longitudinal guide (22) on its inner face, which is located diametrically opposite the groove (21). Placed on this guide is the block of paper (4), folded into a horseshoe shape, which is formed by successive sheets folded in a V shape overlapping and hooked to one another, such that the end of the inner sheet projects through the window (21) so that the user can pull its end and thus extract successive sheets of paper.
 25 **[0010]** The solution depicted in Figure 3 shows a dispenser in which the inner tube (2A) has a configuration having a non-circular geometric section, in which therefore there are edges which allow immobilizing the sheets of paper (4) in the indicated position, folded into a horseshoe shape with the convex area arranged towards the longitudinal groove (21A). Therefore, in this case the need for the longitudinal guide performing this function of preventing the rotation of the paper when each sheet is extracted is therefore eliminated. In this case, the outer tube can and must be replaced with a laterally hinged cover (1A).
 [0011] The inner tube (2) has respective side covers (3) which are snap-fitted on it and allow gripping it in order to be able to rotate the outer tube (3) until aligning both windows (11) and (21) and thus being able to extract the sheets or to rotate the outer tube (2) to a position in which the windows (11) and (21) are not aligned and in which the extraction of paper (4) is therefore not possible.
 40 **[0012]** Having sufficiently described the nature of the invention as well as a preferred embodiment, it is hereby stated for all suitable purposes that the materials, shape, size and arrangement of the described elements could be modified provided that this does not involve an alteration of the essential features of the invention which are claimed below.

Claims

1. A paper dispenser for paper folded in successive sheets facing one another, forming a stack from which the sheets are extracted one by one by pulling the top sheet, **characterized in that** it comprises two concentric cylindrical tubes (1-2), both provided with a longitudinal window (11-21), the inner tube comprising a set of sheets of paper (4), folded into a horseshoe shape with the convex area arranged facing the longitudinal opening (21) of the inner cylinder (2), which has respective side covers (3) which hold the group of sheets of paper (4) therein and allow gripping it with only two fingers while the outer surrounding tube (1) is rotated in order to place the grooves (11-21) facing one another when a sheet of paper is to be extracted, or to conceal the inner groove (21) in the blind area of the outer cylinder (1) so as to also conceal the end of the paper (4) and prevent its extraction **in that** position. 5
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2. The paper dispenser according to claim 1, **characterized in that** the inner tube (2) internally has a longitudinal guide (22) diametrically opposite the generating opening (21) to facilitate this location of the paper, the end of the outer sheet of paper slightly projecting through the window (21). 25
3. The paper dispenser according to claim 1, **characterized in that** the inner tube (2A) has a configuration having a geometric section in which there are edges which immobilize the sheets of paper (4) in the indicated position folded into a horseshoe shape with the convex area arranged towards the longitudinal groove (21A). 30
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4. The paper dispenser according to claim 3, **characterized in that** the outer tube has been replaced with a laterally hinged cover (1A). 40

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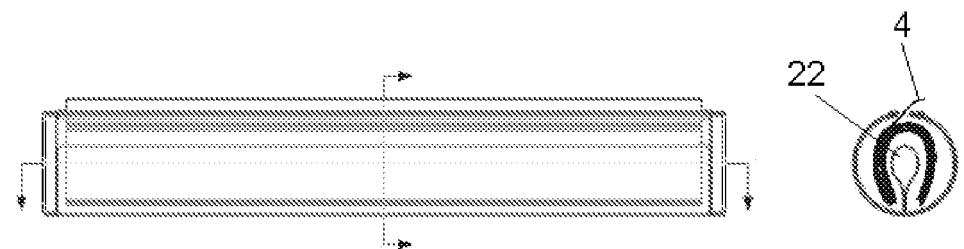


Fig. 1

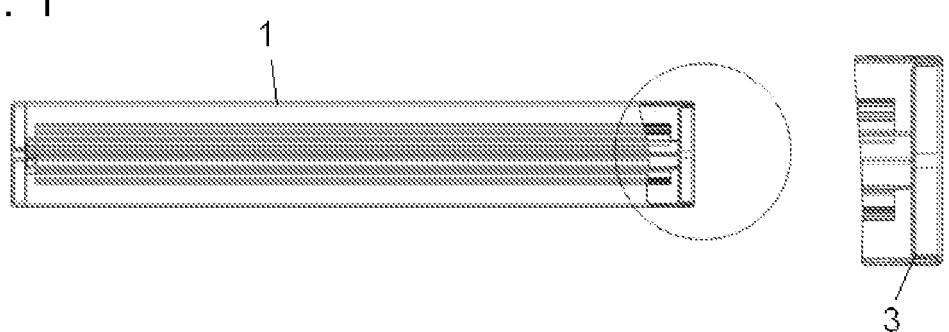


Fig. 2

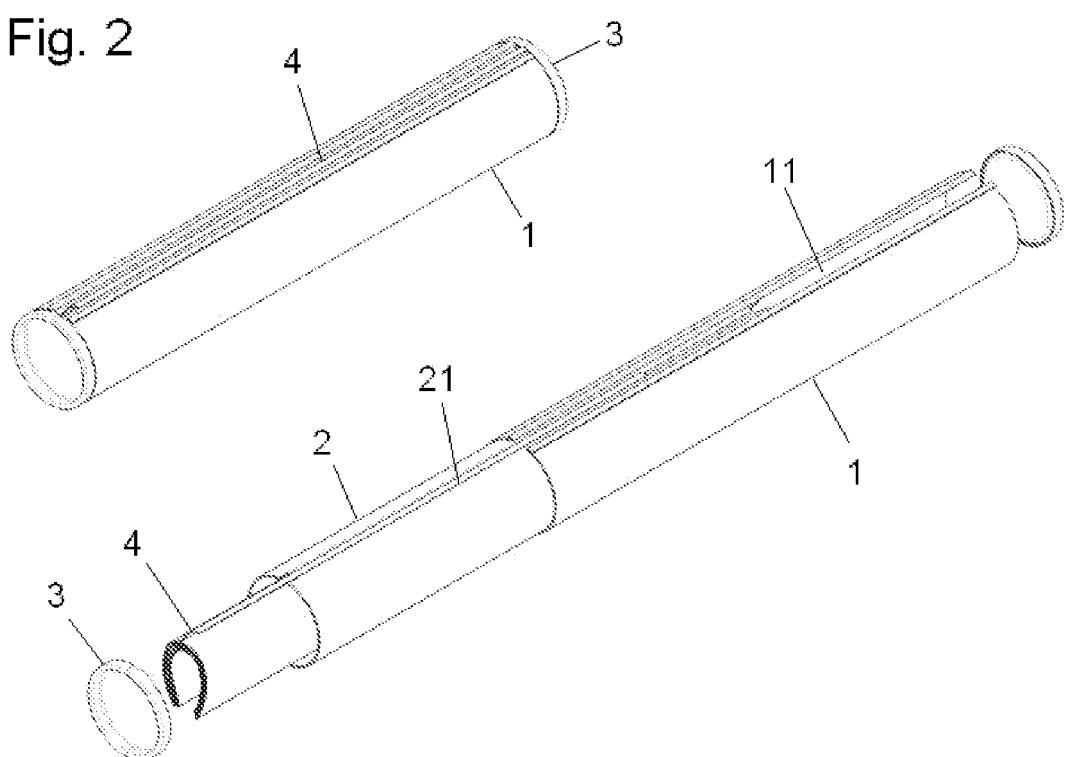
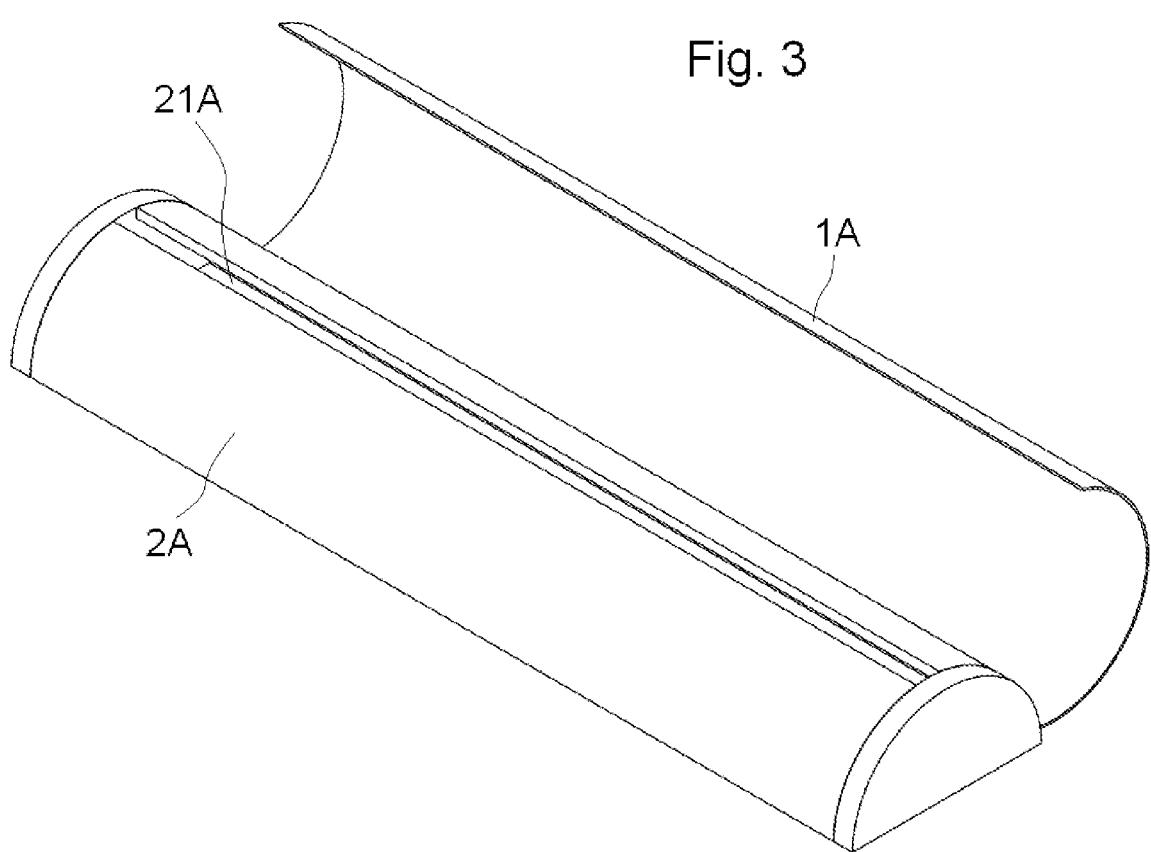


Fig. 3



INTERNATIONAL SEARCH REPORT

International application No.
PCT/ ES 2009/070040

A. CLASSIFICATION OF SUBJECT MATTER

A47K 10/42 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A47K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

INVENES,EPODOC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 122809 A1 (PERSONAL PRODUCTS COMPANY) 24.10.1984, page 2, lines 10-36; figures 1-1A	1-4
A	WO 2004107944 A2 (NESTER. LLC) 16.12.2004, figure 1, claim 1	1-4
A	WO 9409690 A1 (METSARELA AB) 11.05.1994, claims 1-2; figure	1-4

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:		
"A"	document defining the general state of the art which is not considered to be of particular relevance.	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document but published on or after the international filing date	
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"O"	document referring to an oral disclosure use, exhibition, or other means	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other documents, such combination being obvious to a person skilled in the art
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search 17.April.2009 (17.04.2009)	Date of mailing of the international search report (22/05/2009)
Name and mailing address of the ISA/ O.E.P.M. Paseo de la Castellana, 75 28071 Madrid, España. Facsimile No. 34 91 3495304	Authorized officer J. García-Cernuda Gallardo Telephone No. +34 91 349 53 52

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/ ES 2009/070040

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Form PCT/ISA/210 (patent family annex) (July 2008)