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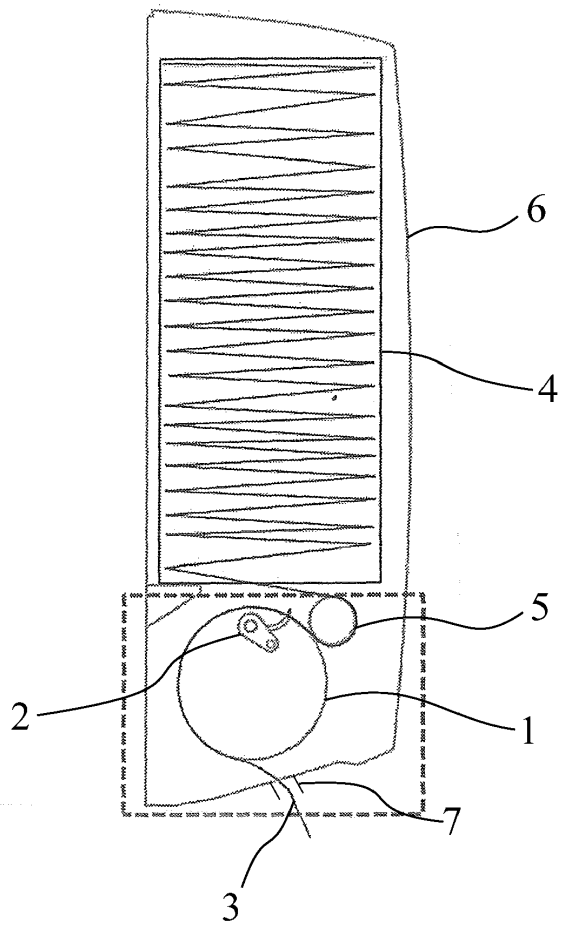
(54) **Autocut dispenser**

(57) The invention concerns an autocut dispenser comprising a cutting drum (1) provided with a cutting mechanism (2) for cutting a predetermined length of paper web (3) stored in a paper magazine (4) and guided to the cutting drum (1) by means of a press roll (5) being in contact with the periphery of the cutting drum (1), each time the cutting drum (1) is rotated one revolution. The invention is characterized in that the paper web (3) is stored in the magazine (4) as a stack of an endless folded paper web (3), requiring only a narrow container accommodating said folded paper web (3).



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Description

[0001] The present invention concerns an autocut dispenser comprising a cutting drum provided with a cutting mechanism for cutting a predetermined length of paper web stored in a paper magazine and guided to the cutting drum by means of a press roll being in contact with the periphery of the cutting drum, each time the cutting drum is rotated one revolution.

[0002] In conventional autocut dispensers the paper web in stored as a roll or reel of paper in the dispenser, which due to the relatively large dimension of paper rolls or reels used in such dispenser, requires quite a large dimension of the dispenser in the direction out from the wall. Further during transport and storing of paper rolls or reels there is quite a lot of waste of space.

[0003] In known dispensers for folded paper the paper is readily cut into sheets of predetermined size, the end of the lowermost folded sheet extends out of an dispensing opening of the dispenser and the lower end of next folded sheet is folded below the upper end of said lowermost folded sheet. This will result in waste of paper sheets, i.e. when one sheet of paper is intended to be dispensed some further paper sheets will drop out of the dispenser opening, especially when the level of paper sheets in the magazine is low.

[0004] The object of the present invention is to eliminate the above mentioned problems and to provide a dispenser suitable also for a smaller room. This is achieved with an autocut dispenser wherein the paper web is stored in the magazine as a stack of an endless folded paper web, requiring only a narrow container accommodating said folded paper web, without causing any waste of paper sheets. The portion of paper given to the user is always accurate, due to the operation of the cutting mechanism.

[0005] The amount of stored paper web can be increased by increasing the height of the magazine.

[0006] The stack of folded endless paper web to be inserted into the magazine can either be wrapped by paper or plastic or packed into a box, whereby one end of the folded paper web is fed from the wrapped stack or from the box to the nip between the press roll and the cutting drum, whereby the end of the paper web will come out of the dispenser opening by rotating the cutting drum.

[0007] In the following the invention will be disclosed in more detail with reference to the enclosed drawing, showing a schematic side view of one example of an autocut dispenser according to the present invention.

[0008] The shown dispenser comprises a housing 6 with a dispensing opening 7 at its bottom end. A dispensing drum 1 is rotatably mounted into the housing 6 above said dispensing opening 7 and is provided with a cutting mechanism 2 comprising a toothed knife arranged to reciprocate between an inner retracted and an outer extracted position during each revolution of the cutting drum 1. The paper web 3 is stored in a magazine 4 above the cutting drum 1 as a stack of a folded endless paper web 3. If a greater amount of paper web 3 is to be stored, the height of the magazine 4 can be increased. The paper web 3 is led from the magazine 4 around a press roll 5 being in contact with the periphery of the cutting drum 1 to a nip between said press roll 5 and the cutting drum 1 and further around said cutting drum 1 and out through the dispensing opening 7 of the housing 6. Each time a user pulls the end of the paper web 3 extending out of the dispensing opening 7, the cutting drum 1 will rotate one revolution, whereby a predetermined sized paper sheet is cut off of the paper web 3 and the cut end of the paper web 3 will be fed out of the dispensing opening 7 to the same extent as the previous end before pulling. Consequently there is no risk that more than one sheet of paper is dispensed at a time.

[0009] Due to the square cross section of the folded paper web the stacks of paper web can be packed quite tightly for instance during transport of the stack requiring about 20 % less space.

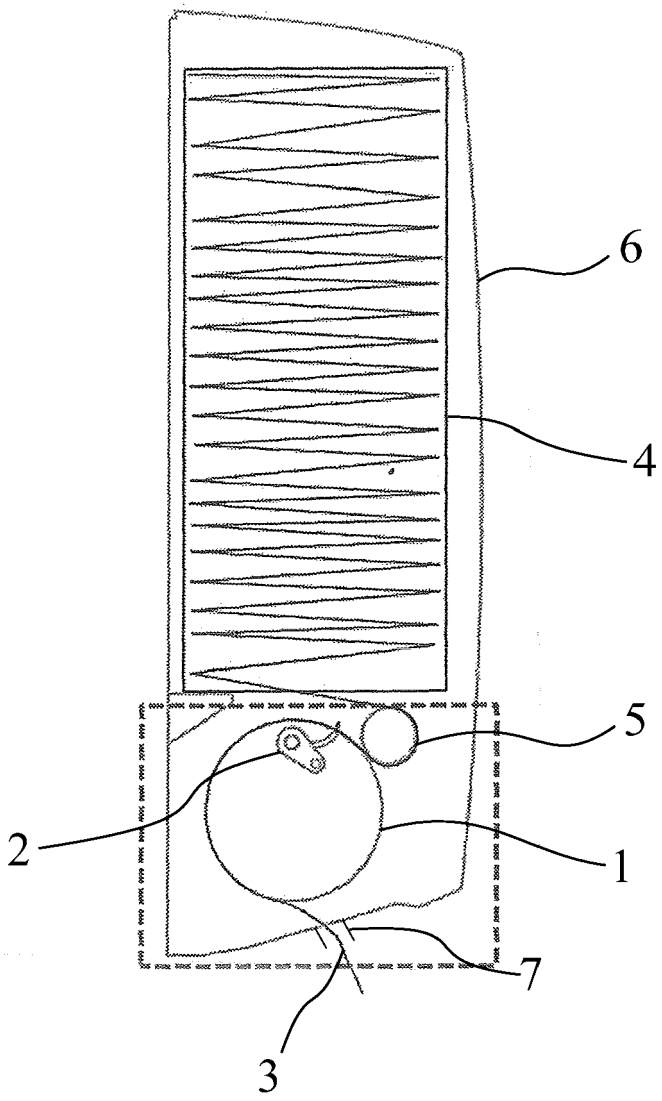
[0010] The stack of folded endless paper web 3 to be inserted into the magazine 4 can be wrapped by paper or plastic or alternatively the stack can be packed into a box.

Claims

1. An autocut dispenser comprising a cutting drum (1) provided with a cutting mechanism (2) for cutting a predetermined length of paper web (3) stored in a paper magazine (4) and guided to the cutting drum (1) by means of a press roll (5) being in contact with the periphery of the cutting drum (1), each time the cutting drum (1) is rotated one revolution, **characterized in that** the paper web (3) is stored in the magazine (4) as a stack of an endless folded paper web (3), requiring only a narrow container accommodating said folded paper web (3).

2. The autocut dispenser according to claim 1, **characterized in that** the stack of folded endless paper web (3) to be inserted into the magazine (4) is wrapped by paper or plastic.

3. The autocut dispenser according to claim 1, **characterized in** the stack of folded endless paper web (3) to be inserted into the magazine (4) is packed into a box.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EUROPEAN SEARCH REPORT

Application Number
EP 11 39 7526

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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A	EP 2 266 448 A2 (HAGLEITNER HANS GEORG [AT]) 29 December 2010 (2010-12-29) * abstract; figure 1 * -----	1	
			TECHNICAL FIELDS SEARCHED (IPC) A47K

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	14 March 2012	Clasing, Martina

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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1 EPO FORM 1503 03.82 (P04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 11 39 7526

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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14-03-2012

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