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Larsson et al.

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[54] **HOLDER WITH TEAR-OFF MECHANISM FOR WEB-LIKE MATERIAL**

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Related U.S. Application Data

[63] Continuation of Ser. No. 370,575, June 15, 1973, abandoned.

[30] **Foreign Application Priority Data**

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[52] **U.S. Cl.** **225/46;** 225/88

[51] **Int. Cl.²** **B26F 3/02**

[58] **Field of Search** 225/6, 46, 47, 52, 54, 225/88, 106

[56] **References Cited**

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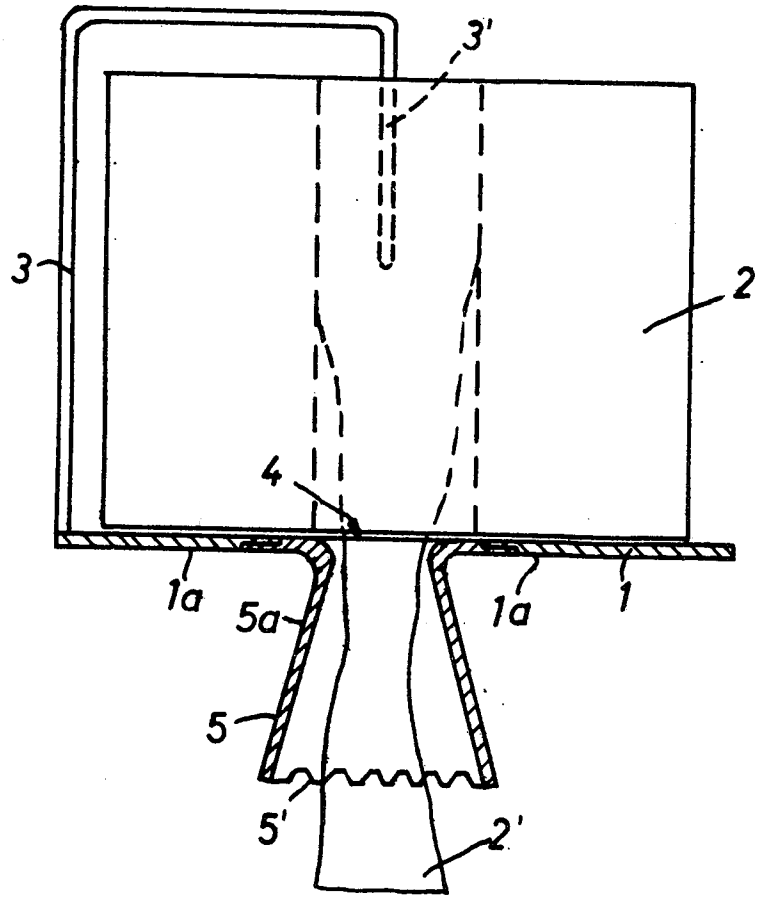
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[57] **ABSTRACT**

A holder with a tear-off mechanism for web-like material, especially for paper rolls, comprising a supporting-and holding portion for the material equipped with a bearing surface through which the material can be withdrawn, and a tear-off mechanism following the bearing surface. The tear-off mechanism comprises a tubular section protruding from the bearing surface.

5 Claims, 3 Drawing Figures



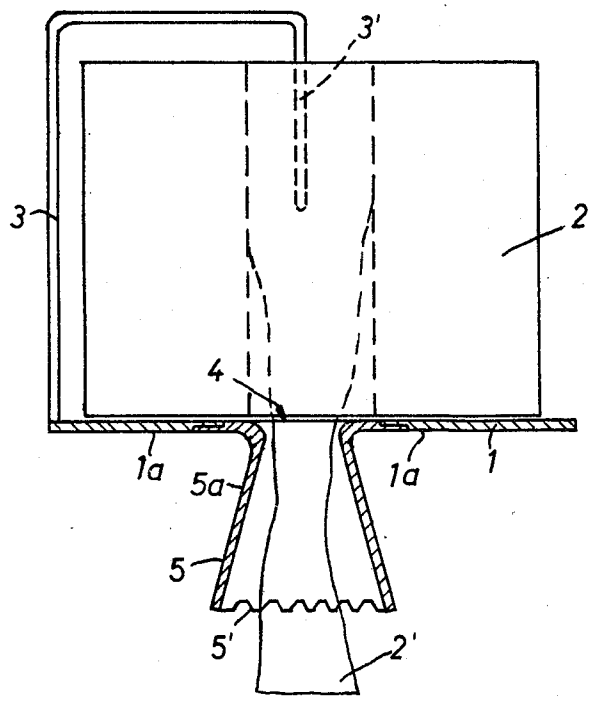


Fig.1

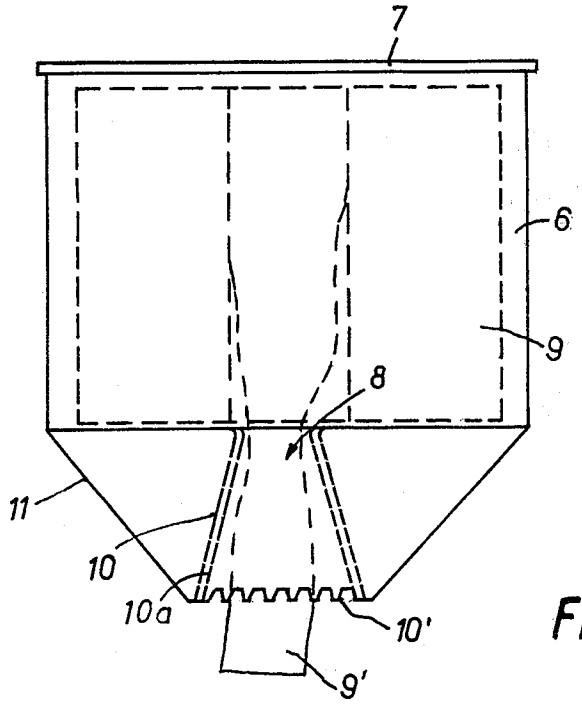


Fig.2

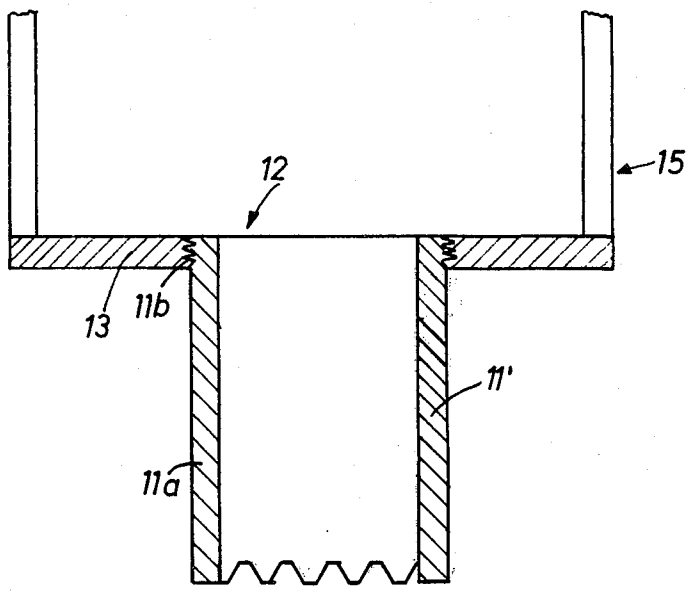


Fig. 3

HOLDER WITH TEAR-OFF MECHANISM FOR WEB-LIKE MATERIAL

This is a continuation, of application Ser. No. **370,575** filed June **15, 1973**, now abandoned.

BACKGROUND OF THE INVENTION

The present invention relates to a new and improved construction of holder equipped with a tear-off mechanism for weblike material, especially paper rolls, and which paper roll holder comprises a supporting- and holding portion for the material with a bearing surface. The material is withdrawn through the bearing surface and the tear-off mechanism is arranged following the bearing surface.

Paper roll holders of the previously mentioned type are known to the art. Normally they possess the form of a container at the floor of which there is provided an opening through which the paper withdrawn from the paper roll is guided. With a particularly advantageous constructional embodiment the container is downwardly extended passed the floor or bottom, this extension tapering conically towards the inside. At the lower end of the extension there are located tear-off or tearing teeth. It has been found that with the paper web torn-off it is very difficult to again seize the same and to draw such through the outlet opening in the aforementioned extension. When attempting to seize the paper strip it often happens that the user injures his fingers at the roll holder.

SUMMARY OF THE INVENTION

Hence, it is a primary object of the present invention to provide an improved construction of holder for weblike material equipped with a tear-off mechanism and which is not associated with the aforementioned drawbacks and limitations of the prior art constructions.

Another object of the present invention aims at an improved construction of holder for web-like material which is relatively simple in construction and design, easy to use, and economical to manufacture.

Now in order to implement these and still further objects of the invention, which will become more readily apparent as the description proceeds, the holder with the tear-off mechanism of this development is manifested by the features that the tear-off mechanism consists of a tubular section protruding from the bearing surface. The tubular-shaped tear-off mechanism is advantageously constructed as a separate component and connected at the bearing surface for the material in any suitable way, such as by threading, a bayonet connection or lock or the like. The tear-off mechanism can be of cylindrical configuration or can conically widen in the throughpassage direction of the paper.

Owing to the construction of the tear-off mechanism as contemplated by this development it is possible to positively seize a paper end which has been torn without danger of injury and to draw such out of the paper roll holder and its tear-off mechanism respectively.

BRIEF DESCRIPTION OF THE DRAWINGS

The invention will be better understood and objects other than those set forth above, will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

FIG. **1** is a schematic view of a paper roll holder having a tear-off mechanism and designed according to the teachings of the present invention;

FIG. **2** is a further exemplary embodiment of paper roll holder embodying teachings of the invention;

FIG. **3** is a variant embodiment of paper roll holder.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Describing now the drawings, it will be recognized that the paper roll holder depicted by way of example in FIG. **1** comprises a supporting and holding portion incorporating a bearing or support plate **1** for supporting a paper roll **2** as well as a holding bracket **3** which has a flexed free end **3'** which engages into a central opening of the paper roll **2** and in this way positively retains the roll against the bearing or support plate **1.** This bearing plate **1** will be further understood to possess at its central region an outfeed opening **4** through which there can be downwardly drawn a paper strip **2'** from the roll **2.** From the region of this opening **4** there downwardly extends a substantially tubular-shaped tear-off mechanism **5.** An essential aspect of this embodiment of tear-off mechanism **5** resides in the fact that the tubular member or tube **5*a***, viewed in the throughpassage or throughflow direction of the paper **2'**, conically widens. In this way it is possible to engage with the hand or the fingers of the user into the confines of the tubular-shaped tear-off mechanism **5** and to seize the end of the paper strip in that it is pushed against the inner wall of the tubular member **5*a*** and at the same timed pulled downwardly. Owing to the particularly simple possibility of seizing the paper strip injury to the user by virtue of the tear-off teeth **5'** provided at the lower end of the tubular member **5a** is practically eliminated.

The bearing plate or bearing surface **1** could of course consist of individual arms, such as generally indicated by reference character **1*a***, arranged in a star-like configuration with regard to the opening **4.** The tubular-shaped tear-off mechanism **5** can be formed as a separate component or integrally with the bearing plate or surface **1** and the actual paper roll holder.

FIG. **2** of the drawings illustrates a variant of the inventive paper roll holder wherein in this case the actual supporting- and holding portion of the roll holder consists of a container **6** with a detachable cover **7.** At the floor of the container **6** there is also here provided an opening **8** through which there can be withdrawn a paper strip **9'** of the paper roll **9.** Following this opening **8** there is arranged the tubular-shaped tear-off mechanism **10** which conically widens in the throughpassage direction of the paper. The tear-off mechanism **10** is further surrounded by a covering sleeve or jacket **11** which, for instance, can be fixed to the container **6** and the tube or tubular member **10*a***. An essential aspect of this exemplary embodiment of the invention likewise resides in the fact that the tubular-shaped tear-off mechanism **10** conically downwardly widens, thereby enabling positively seizing at any time the paper strip located internally of the tubular member and without danger of injury drawing such past the tear-off teeth **10'**.

FIG. **3** illustrates a cross-sectional view of a further embodiment of paper roll holder designed according to the invention having a tear-off mechanism **11'**. Here the tear-off mechanism **11'** is constituted by a cylindri-

cal tubular member **11**a which can be threaded by threading **11***b* into the threaded bottom or floor opening **12** of the bearing surface or bearing plate **13** of the supporting and holding portion **15.** Attachment of the tear-off mechanism **11'**, constructed in this instance as a separate component, can also be accomplished for example, by means of a bayonet closure or lock. Such type disconnectible attachments have the notable advantage that depending upon the environment of use, and specifically the nature of the tearable paper and its degree of difficulty to tear, there can be employed different tear-off mechanisms provided with suitable teeth.

While there is shown and described present preferred embodiments of the invention, it is to be distinctly understood that the invention is not limited thereto, but may be otherwise variously embodied and practiced within the scope of the following claims. Accordingly,

What is claimed is:

1. A holder with a tear-off mechanism for web-like material, especially for paper rolls, comprising a supporting and holding member for the material including a bearing means forming the bottom of the holder and having a central bottom opening through which the material is withdrawn, said bearing means having a substantially planar upper bearing surface and the holder also comprising a tear-off mechanism connected to the supporting and holding member and arranged following and surrounding said central opening in the bearing means, the tear-off mechanism comprising an elongated, conduit of substantially circular cross-section protruding downwardly from the opening in the bearing means and terminating with teeth at its lower end for severing the web-like material at said lower end, said conduit being dimensioned to permit a user of the holder to insert his fingers into the conduit to grip a portion of the web-like material disposed in the conduit.

2. The holder as defined in claim **1,** wherein the tear-off mechanism comprises a substantially cylindrical tubular section.

3. The holder as defined in claim **1,** wherein the substantially tubular-shaped tear-off section, viewed in the downward direction, conically widens.

4. The holder as defined in claim **1,** wherein the substantially tubular-shaped tear-off mechanism constitutes a separate component and said separate component being provided with means providing a detachable connection of the tubular-shaped tear-off mechanism at the bearing surface means.

5. The holder as defined in claim **1,** wherein the substantially tubular-shaped tear-off mechanism is integrally formed with the bearing surface means.

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