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(54) **A CABLE PACKAGING ASSEMBLY**

(57) This cable packaging assembly (10) comprises a cable coil (12) and a plastic film (14) enclosing the cable coil (12). The plastic film (14) forms a closed envelope having upper and lower sides (16) having a central part comprising a die-cut pattern (18) that, when removed, allows passage of the cable for unwinding.

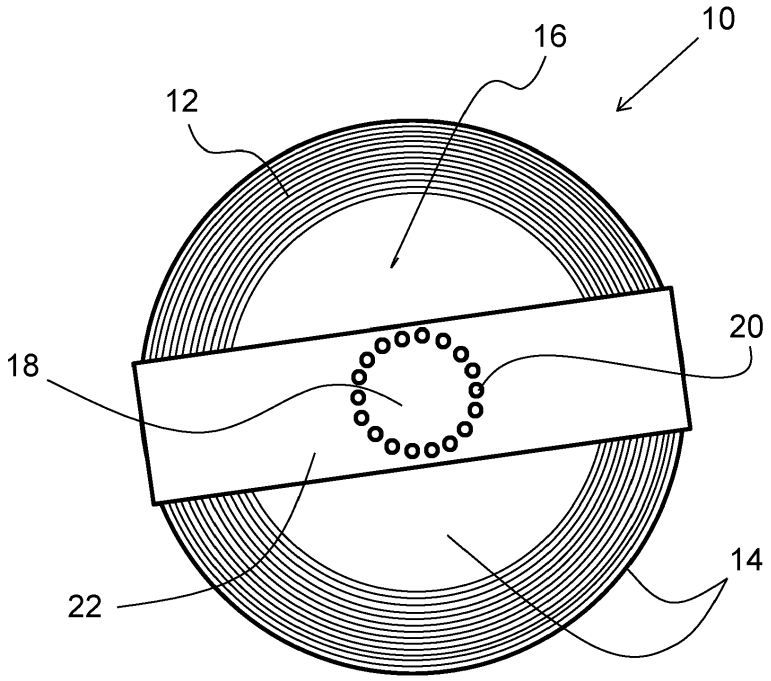

FIG.1

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Description

FIELD OF THE INVENTION

[0001] The present invention relates to a cable packaging assembly.

BACKGROUND OF THE INVENTION

[0002] Cable coils are often wrapped in plastic films. Conventional plastic films cover only the coil itself and thus leave open a large part of the space delimited by the inner circumference of the coil.

[0003] Therefore, dust, water or any other solid or liquid elements may accumulate within the coil and may damage the cable.

[0004] Moreover, unwinding the cable from such an open packaging assembly is cumbersome.

[0005] In addition, such packaging does not make it possible to easily stack several cable coils and simultaneously unwind cable from each of the stacked coils.

[0006] Document EP-A-3 251 970 discloses a cable coil wrapped in such an open film comprising a central hole and a diametral strap partially covering the central hole. The strap is provided with an orifice for passage of the cable.

[0007] While such packaging facilitates unwinding of the cable, it does neither solve the problem of possible accumulation of dust, water or other exterior elements, nor make it possible to simultaneously unwind cable from several stacked coils.

SUMMARY OF THE INVENTION

[0008] An object of the present disclosure is to overcome the above-mentioned drawbacks of the prior art.

[0009] To that end, the present disclosure provides cable packaging assembly, comprising a cable coil and a plastic film enclosing the cable coil, the cable packaging assembly being remarkable in that the plastic film forms a closed envelope having upper and lower sides each having a central part comprising a die-cut pattern that, when removed, allows passage of the cable for unwinding.

[0010] Thus, the cable packaging assembly according to the invention protects the cable from dust, water and any other exterior elements thanks to the closed envelope formed by the plastic film.

[0011] Moreover, it makes it possible to quickly open the plastic film by removing any one of the two die-cut patterns by simple pressing and to easily unwind cable from the coil through the opening formed by the removed die-cut pattern.

[0012] Furthermore, several cable packaging assemblies according to the invention may be stacked and after removal of their respective die-cut patterns, cable may be easily unwound simultaneously from all the stacked coils, the cables passing successively, from the bottom coil to the top coil, through the openings formed by the removed die-cut patterns of all the stacked cable packaging assemblies.

[0013] In a particular embodiment, each of the two die-cut patterns comprises a plurality of apertures arranged on a circle.

[0014] The plurality of apertures forms a pre-cut opening facilitating quick opening of the packaging assembly, without any tool.

[0015] In a particular embodiment, the cable packaging assembly further comprises a strap arranged diametrically around the cable coil and comprising the same die-cut patterns as the plastic film.

[0016] The strap makes it possible to increase the stability of the cable coil, as it helps the coil to keep its shape during cable unwinding. This is particularly advantageous in case of stacking several cable packaging assemblies and simultaneously unwinding cable from all the stacked cable coils.

[0017] In a particular embodiment, the strap is below the plastic film.

[0018] In another particular embodiment, the strap is above the plastic film.

[0019] The strap allows easy transport of the cable packaging assembly, as it may be used as a handle.

[0020] In a particular embodiment, the cable is an electric cable or wire.

BRIEF DESCRIPTION OF THE DRAWINGS

[0021] For a more complete understanding of the description provided herein and the advantages thereof, reference is now made to the brief descriptions below, taken in connection with the accompanying drawings and detailed description, wherein like reference numerals represent like parts.

FIG. 1 is a schematic view of a cable packaging assembly according to the present invention, in a particular embodiment.

FIG. 2 is a schematic view of a stack of three cable packaging assemblies according to the present invention showing simultaneous unwinding of cable from the three cable coils, in a particular embodiment.

FIG. 3 is a schematic view of a particular use of a strap that may be comprised in a cable packaging assembly according to a particular embodiment of the present invention, for transporting the cable packaging assembly.

DETAILED DESCRIPTION OF EMBODIMENTS

[0022] As shown in Figure 1, in a particular embodiment, a cable packaging assembly 10 according to the present invention comprises a cable coil 12 made of a wound cable. The cable may be an electric cable or electric wire, or another type of cable, such as a rope or a

garden hose.

[0023] The cable packaging assembly 10 also comprises a plastic film 14 enclosing the cable coil 12.

[0024] According to the present invention, the plastic film 14 forms a closed envelope having upper and lower sides 16 (only one of the sides is visible on Figure 1, but both sides 16 are identical). Each of the upper ad lower sides 16 has a central part comprising a die-cut pattern 18. The die-cut pattern 18, when removed, allows passage of the cable for unwinding the cable coil 12.

[0025] Each of the die-cut patterns 18 may for example comprise a plurality of apertures 20 arranged on a circle.

[0026] Optionally, the cable packaging assembly 10 may further comprise a strap 22 arranged diametrically around the cable coil 12. The strap 22 comprises the same die-cut patterns 18 as the plastic film 14, so that removal of the die-cut patterns 18 allows passage of the cable both through the plastic film 14 and through the strap 22.

[0027] The strap 22 may be located either below the plastic film 14, or above the same.

[0028] Figure 2 shows that a plurality of cable packaging assemblies 10 according to the present invention may be stacked in order to unwind cable simultaneously from all the stacked cable coils 12.

[0029] In the illustrated example, three cable coils 12 are stacked, so that three cables are unwound simultaneously by the user. The cable unwound from the cable packaging assembly 10 located on the bottom of the stack passes, from the bottom to the top of the stack, through the openings formed by removal of the die-cut patterns 18 of the three cable packaging assemblies 10, the cable wound from the cable packaging assembly located in the middle of the stack passes upwards through the openings formed by removal of the die-cut patterns 18 the first two cable packaging assemblies 10 from the top of the stack and the cable unwound from the cable packaging assembly 10 located on the top of the stack passes upwards through the openings formed by removal of the die-cut patterns 18 of that cable packaging assembly 10.

[0030] Figure 3 shows a cable packaging assembly 10 according to the present invention in a particular embodiment where it comprises a strap 22 as described above, which is used as a handle in the particular example that is illustrated (the strap 22 is shown in dashed lines, as it is held by the hand of the user). Thus, the user may easily transport the cable packaging assembly 10 with one hand while unwinding cable from the cable coil 12 with the other hand.

Claims

1. A cable packaging assembly (10), comprising a cable coil (12) and a plastic film (14) enclosing said cable coil (12), said cable packaging assembly (10) being **characterized in that** said plastic film (14) forms a closed envelope having upper and lower sides (16) each having a central part comprising a die-cut pattern (18) that, when removed, allows passage of the cable for unwinding.

2. A cable packaging assembly (10) according to claim 1, **characterized in that** each of said die-cut patterns (18) comprises a plurality of apertures (20) arranged on a circle.

3. A cable packaging assembly (10) according to claim 1 or 2, **characterized in that** it further comprises a strap (22) arranged diametrically around said cable coil (12) and comprising the same die-cut patterns (18) as said plastic film (14).

4. A cable packaging assembly (10) according to claim 3, **characterized in that** said strap (22) is below said plastic film (14).

5. A cable packaging assembly (10) according to claim 3, **characterized in that** said strap (22) is above said plastic film (14).

6. A cable packaging assembly (10) according to any of the preceding claims, **characterized in that** said cable is an electric cable or wire.

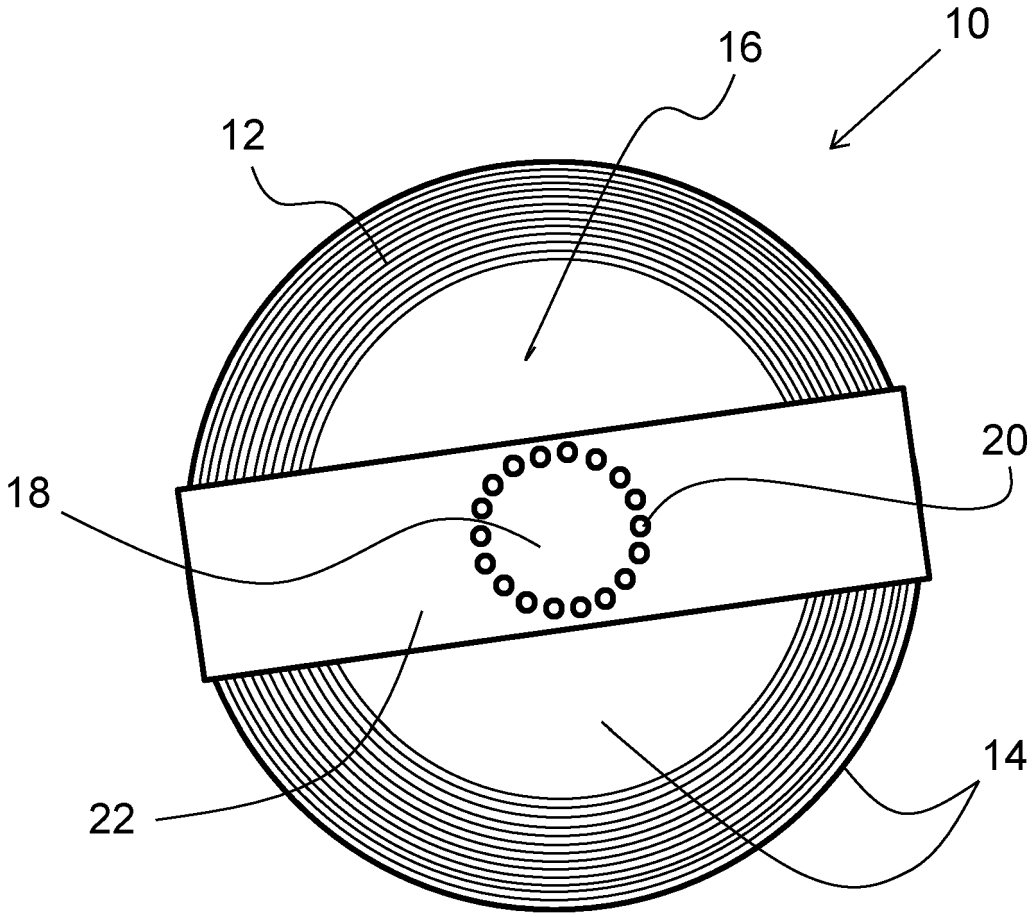

FIG.1

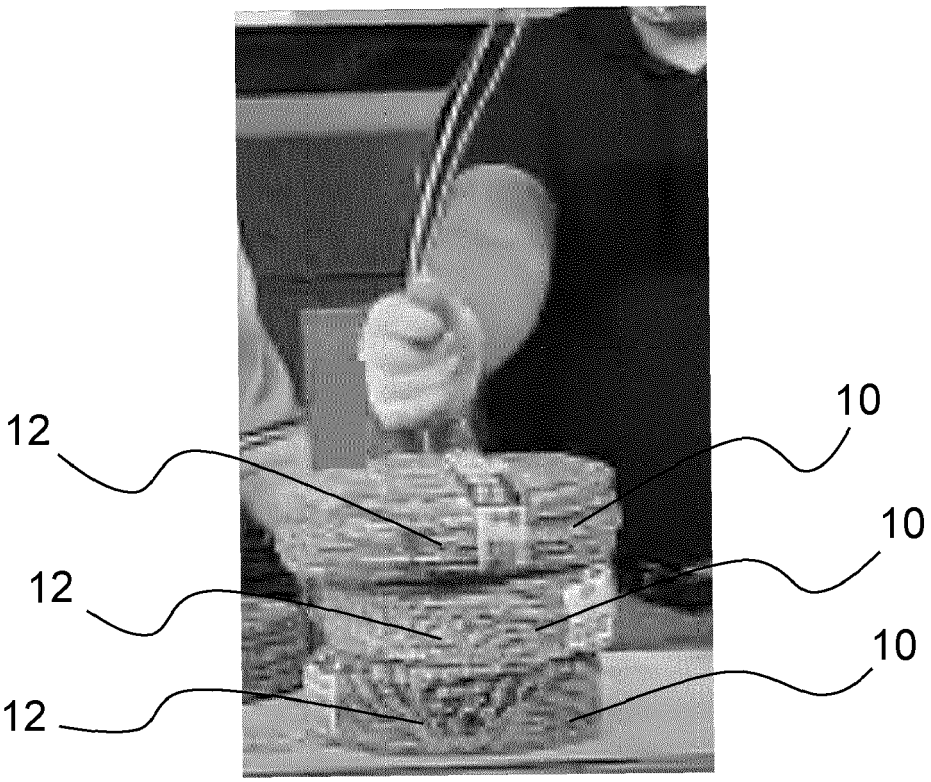

FIG.2

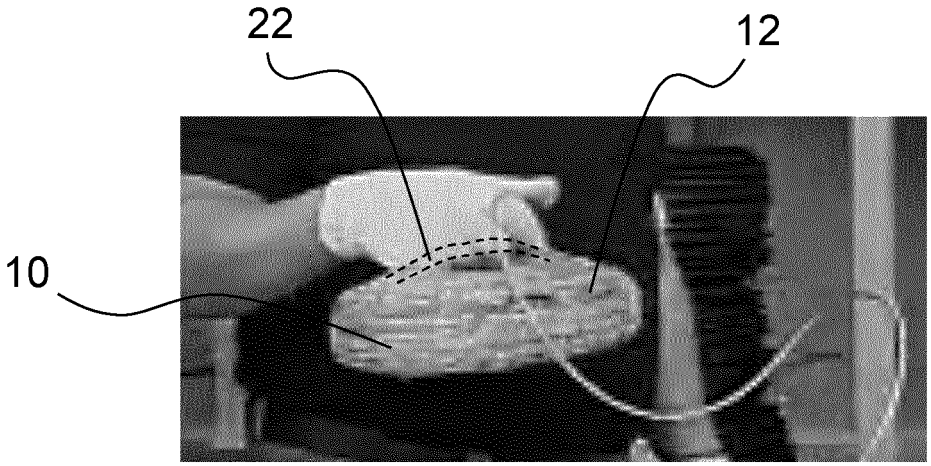

FIG.3

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EUROPEAN SEARCH REPORT

Application Number
EP 22 30 5895

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
Y,D	EP 3 251 970 A1 (NEXANS [FR]) 6 December 2017 (2017-12-06) * paragraphs [0017] - [0030]; figures 1-3 * -----	1-6	INV. B65D85/04 B65D85/675
Y	FR 2 817 839 A1 (M R IND [FR]) 14 June 2002 (2002-06-14) * page 1, lines 3-15 * * page 2, line 19 - page 3, line 20 * * claims 1,5; figures 1-3 * -----	1-6	
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TECHNICAL FIELDS SEARCHED (IPC)

B65D

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	17 November 2022	Leijten, René

CATEGORY OF CITED DOCUMENTS

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17-11-2022

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

REFERENCES CITED IN THE DESCRIPTION

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- EP 3251970 A **[0006]**