

Description

BACKGROUND OF THE INVENTION

Field of the Invention

The present invention relates generally to web-roll cartridges, and more particularly to an anti-clock-springing mechanism for preventing a wound roll of web material on a web-spool within a cartridge from clockspringing during storage, handling, and shipment thereof.

Description of the Prior Art

In various packages or cartridges now in use for webs of photographic film and paper, the web is wound on a spool or core, with or without flanges, and is disposed within the cartridge which totally surrounds or encloses the web and protects it from light and other damaging effects. One end of the web is normally secured to the core or spool center, and the other end extends out of the cartridge through a slot therein. The other end is fastened to the exterior surface of the cartridge and is released therefrom for insertion into a camera or the like. It has been found that there is a tendency for the web in such cartridges to unwind during storage, handling and shipping. Inasmuch as the inner end of the web is connected to the core or the spool center and the outer end is normally secured to the outer surface of the cartridge, the web acts as a released clockspring, turning the spool as it unwinds. Such clockspringing can result in scratching or abrading the surface of adjacent web convolutions causing a deterioration in the quality of the image that may be recorded thereon. In other instances, the web can clockspring outwardly to the extent that the outer convolution of web jams against the inner surface of the cartridge making subsequent un-reeling of the web difficult or impossible. In situations in which the outer end of the web is not fastened to the outer surface of the cartridge, or is inadvertently released from the cartridge surface, the clockspringing can cause the outer end of the web to be pulled back through the slot into the cartridge interior cavity, resulting in a cartridge that is completely unusable.

Various attempts have been made to provide anti-clockspringing apparatus for preventing unwinding of the web in cartridges. For example, an anti-clock-springing device for a film cartridge is disclosed in U.S. Patent No. 3,613,876, which issued to Kohler et al. on October 19, 1971. In the disclosed film cartridge, one or more spot welds is provided between the surface of the core and the cartridge hub. The spot weld has sufficient strength to prevent the core from rotating during shipping, but will break as the film is withdrawn from the cartridge, permitting the core to rotate. In U.S. Patent No. 3,784,001, which is-

sued to Bushnell et al. on January 8, 1974, a film cartridge is disclosed in which clockspringing of a roll of film is prevented by providing a frangible connector between the core and a portion of the cartridge. The connector has sufficient strength to prevent the core from rotating during shipping, but which will break as the film is withdrawn from the cartridge, permitting the core to rotate. A core-locking device for a web dispensing cassette is disclosed and published as Item No. 16352 in the November 1977 issue of Research Disclosure. In that core-locking device, a web-winding core is provided with a slotted end, and a core-locking member is provided that is captive and slidable (but yet light-tight) in one of two end caps of the cassette. In U.S. Patent No. 4,210,296, which issued to Frechette on July 1, 1980, a ribbon cartridge with an integral anti-spool rotation device is disclosed. The anti-spool rotation device comprises an axially movable spool core insert connected to the cartridge wall by flexible bridges or arms. The core insert is manually pressed into the open end of the core to frictionally hold the core against rotation. Upon mounting the cartridge in a machine, a post thereon will axially push the core insert out of frictional engagement with the spool core, thereby allowing free rotation of the web supply spool. It is also known in the prior art to prevent clockspringing of a wound roll of web material within a cartridge by providing aligned notches in outer surfaces of the core end and cartridge wall and placing a rubber band around the entire cartridge with the band nesting in the notches. In still another prior-art reference, U.S. Patent No. 4,756,418, which issued to Johanson et al. on July 12, 1988, prevention of clockspringing of a wound roll of web material within a cartridge is achieved by providing a notch in a core end alignable with an enclosed slot in a wall of the cartridge, and inserting a clip through the aligned notch and slot. In U.S. Patent No. 4,802,633, which issued to Beery on February 7, 1989, an anti-clock-springing mechanism is disclosed comprising a ring gear on the flange of the web-spool engageable by a "one-shot" bendable locking gear sector on the cartridge body. The gear sector is normally in engagement with the ring gear to prevent the web-spool from rotating and the web material thereon from clockspringing during shipment and storage of the cartridge. An operating pin is insertable through a light-tight opening in the cartridge for engaging the gear sector and disengaging it from the ring gear to allow web-spool rotation.

In NL-A-6,614,756, a cable drum is disclosed with a lock member which has an eccentric shoulder.

Although the aforementioned prior-art attempts at solving the problems of web-roll clockspringing in cartridges have had varying degrees of success, the need still exists for an improved anti-clockspringing mechanism that is of simple design and construction, reliable in operation, and economical to manufacture. An object of the present invention is to fulfill this need.

A cartridge solving this problem in accordance with the present invention is described in claim 1, whereas the dependent claims describe preferred embodiments of such a cartridge.

Some advantages of the anti-clockspringing mechanism of this invention are (1) a reduction in the web-roll inertial forces on the core and possible damage thereto during storage, handling, and shipping, (2) simplicity of design and construction, (3) reusability of the cartridge and anti-clockspringing mechanism, (4) reliability of operation, and (5) manufacturing economy.

The invention and its objects and advantages will become more apparent from the detailed description of the preferred embodiments presented below.

BRIEF DESCRIPTION OF THE DRAWINGS

In the detailed description of the preferred embodiments of the invention presented below, reference is made to the accompanying drawings, in which:

Fig. 1 is a side elevational view of a cartridge in which a preferred embodiment of the web-roll anti-clockspringing mechanism of this invention is embodied, with a portion thereof broken away to show a portion of the web-spool flange;

Fig. 2 is an end elevational view of the cartridge with a portion thereof broken away to expose a portion of the web-spool and web-roll;

Fig. 3 is an exploded view, in perspective, of the cartridge and anti-clockspringing lock member, with the web-spool omitted for clarity;

Fig. 4 is a segmental, enlarged, perspective view of a lower portion of the cartridge housing, showing the web-roll anti-clockspringing lock member of Figs. 1 and 3 in its unlocked position;

Fig. 5 is a segmental, enlarged, perspective view similar to Fig. 4, showing the web-roll anti-clockspringing lock member of Figs. 1 and 3 in its locked position;

Fig. 6 is a segmental, enlarged, rear perspective view of the web-roll anti-clockspringing lock member;

Fig. 7 is a segmental, front perspective view of another preferred embodiment of the web-roll anti-clockspringing mechanism of this invention, with the lock member in its unlocked position;

Fig. 8 is a segmental, rear perspective view of the lock member of Fig. 7; and

Fig. 9 is a segmental, front perspective view similar to Fig. 7, showing the lock member in its locked position.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Because certain parts of web-spools, web-rolls,

and cartridges are well-known, the following description is directed in particular to those elements forming, cooperating directly with, or relating to the present invention. Elements not specifically shown or described herein are selectable from those known in the art.

Illustrated in Figs. 1 and 2 is a cartridge 10 of a type suitable for supplying a computer output microfilm or the like, not shown, with a long web 12 of 16mm and/or 105mm wide films from a web-roll 14. The cartridge typically comprises a pair of upper and lower cartridge housings 16, 18 defining a central interior cavity 20 and having sidewalls 22, 24 provided with matching semi-cylindrical recesses forming bearings 26, 28 for rotatably supporting cylindrical journals 30 on a pair of flanges 34 of a web-spool 35 mounted within the cavity. The cartridge housings 16, 18 are sealed together along mating rim surfaces 36, 38 for enclosing the web-roll 14 on web-spool 35. Housings 16, 18 have nose portions 40, 42 with opposed inner surfaces defining an exit slot 44 through which the web 12 is withdrawn from the cartridge. The opposed inner surfaces normally have a plush or foam material, not shown, applied thereto to prevent light from entering the cartridge interior cavity 20.

With further reference to Fig. 2, the web-spool 35 comprises a core 50, shown dotted, onto which the long web 12 of film or paper is wound, forming the web-roll 14. The web-spool further comprises the aforementioned pair of flanges 34 which are attached to ends of the core 50 to prevent dishing and/or telescoping of the web-roll.

Referring to Figs. 1 and 3-6, a preferred embodiment of the web-roll anti-clockspringing mechanism of this invention comprises a unitary lock member 52 (Figs. 3 and 6) having a thin cylindrical body 54. The body has an outer flat surface 56 from which a handle portion 58 extends laterally outwardly. The body 54 further has an inner, substantially flat surface 60 from which an arcuate eccentric lock shoulder 62 extends laterally outwardly.

With further reference to Figs. 3-5, the web-roll anti-clockspringing lock member 52 is rotatably mounted in sidewalls 22, 24 of the cartridge 10 by nesting the periphery of the body 54 within matching semi-cylindrical grooved bearings 64 which together define a complementary opening in sidewalls 22, 24. The grooves in the bearings cooperate with body 54 to provide a light-seal to prevent light from entering the cartridge cavity 20. In this mounted position, the handle portion 58 is accessible from the exterior of the cartridge, and the eccentric lock shoulder 62 faces a sector of an annular lip 66 on the periphery of a flange 34. The lip is provided with angularly spaced alternate lugs 68 and notches 70 in substantial alignment with the lock shoulder 62 and all lying in substantially the same plane. The edges 72 of the lock shoulder 62 are rounded to facilitate movement of the

shoulder into a nesting position within a notch 70 upon rotatable movement of the lock member 52 to its locked position, as best seen in Fig. 5. In this locked position, the lock shoulder 62 is positioned transverse to the lugs 68 and blocks the flange 34 and web-roll 14 from rotating. When the lock member 52 is rotatably moved to its unlocked position, as best seen in Figs. 1 and 4, the eccentric lock shoulder 62 is moved out of or withdrawn from a lip notch 70, and the inner surface thereof is substantially parallel to and spaced from the lip 66, allowing the flange 34 and web-roll 14 to freely rotate.

Detent means may be interposed between the lock member 52 and cartridge 10 for releasably holding the lock member in its locked or unlocked position. The detent means comprises a flexible finger 74 extending radially outwardly from a sidewall bearing 64, as best seen in Fig. 3, cooperating with a nipple 76 (Fig. 6) on the inner flat surface 60 of the lock member 52. In the locked position, the nipple 76 is adjacent to one side of the finger 74, and is adjacent to the other side of the finger when the lock member is moved to its unlocked position.

With reference to Figs. 7-9, another preferred embodiment of the web-roll anti-clockspringing mechanism of this invention is disclosed, comprising a unitary cylindrical lock member 78 having a peripheral groove 80 for receiving semi-cylindrical bearing surfaces, not shown, in sidewalls of the housings at their juncture. The lock member 78 has a handle 84 on one side facing the exterior of the cartridge and a lock means on the opposite side extending into the cartridge interior cavity. The lock means comprises an annular, laterally extending rim 86 having a pair of diametrically opposed rim notches 88 forming a pair of diametrically opposed arcuate lock shoulders 90. When the lock member 78 is moved by the handle 84 to an unlocked position, as seen in Figs. 7 and 8, the rim notches 88 are in alignment with a flange lip 92, allowing the lip, flange 94, and web-roll 14 to freely rotate. When the lock member 78 is moved to its locked position, as seen in Fig. 9, the lock shoulders 90 nest within an elongated lip notch 96 in a position transverse to the lip lugs 98 for blocking and preventing the flange 94 and web-roll 14 from rotating.

This invention has been described in detail with particular reference to preferred embodiments thereof, but it will be understood that variations and modifications can be effected within the scope of this invention as defined by the following claims.

Claims

1. A cartridge for a web-roll, comprising:
a web-spool (35) onto which web can be wound to form a web-roll (14), the web-spool having at least one flange (34; 94) having an annular

lip (66; 92) provided with angularly spaced alternate lugs (68; 98) and notches (70; 96);

a housing (16; 18) enclosing and rotatably supporting the web-spool (35), the housing having a pair of side walls (22, 24) facing said at least one flange (34; 94) in closely spaced relation and an exit slot (44) for withdrawing the web;

an anti-clockspringing lock member (52; 78) which when in a locked position prevents the flange (34; 94) and web-spool (35) from rotating, and which when in an unlocked position allows the flange (34; 94) and web-spool (35) to freely rotate, said lock member facing a sector of the annular lip (66; 92);

characterized in that

said anti-clockspringing lock member is formed of a unitary member (52; 78) having a cylindrical body (54; 80) mounted in an opening in the side-wall (22, 24) of the cartridge (10), so that the body is rotatable about its longitudinal axis, the lock member (52; 78) further has a shoulder (62; 90) lying substantially in the plane of the lip (66; 92) and being mounted on one side of the body (54; 80), the lock member (52; 78) is further adapted to be rotatable between the locked position, in which the lock shoulder (62; 90) nests in one of the lip notches (70; 96) and is transverse to the lugs (68; 98), and the unlocked position in which the lock shoulder (62; 90) is withdrawing from the lip notch (70; 96).

2. A cartridge for a web-roll according to Claim 1 further characterized in that the annular lip (66; 92) is on the periphery of the flange (34; 94) and extends axially outwardly from the flange (34; 94).
3. A cartridge for a web-roll according to Claim 1 further characterized in that the lock shoulder (62; 90) extends axially inwardly toward the flange (34; 94) and has an outer arcuate surface.
4. A cartridge for a web-roll according to Claim 1 further characterized in that the lock member (52; 78) further has a handle (58; 84) on the opposite side of the body (54; 80).
5. A cartridge for a web-roll according to Claim 1 further characterized in that the annular lip (66; 92) is on the periphery of the flange (34; 94) and extends axially outwardly from the flange (34; 94), and wherein the lock shoulder (62; 90) extends axially inwardly toward the flange (34; 94) and has an outer arcuate surface.
6. A cartridge for a web-roll according to Claim 5 further characterized by detent means (74) between the cartridge (10) and the lock member (52) for releasably holding the lock member (52) in its

shoulder into a nesting position within a notch 70 upon rotatable movement of the lock member 52 to its locked position, as best seen in Fig. 5. In this locked position, the lock shoulder 62 is positioned transverse to the lugs 68 and blocks the flange 34 and web-roll 14 from rotating. When the lock member 52 is rotatably moved to its unlocked position, as best seen in Figs. 1 and 4, the eccentric lock shoulder 62 is moved out of or withdrawn from a lip notch 70, and the inner surface thereof is substantially parallel to and spaced from the lip 66, allowing the flange 34 and web-roll 14 to freely rotate.

Detent means may be interposed between the lock member 52 and cartridge 10 for releasably holding the lock member in its locked or unlocked position. The detent means comprises a flexible finger 74 extending radially outwardly from a sidewall bearing 64, as best seen in Fig. 3, cooperating with a nipple 76 (Fig. 6) on the inner flat surface 60 of the lock member 52. In the locked position, the nipple 76 is adjacent to one side of the finger 74, and is adjacent to the other side of the finger when the lock member is moved to its unlocked position.

With reference to Figs. 7-9, another preferred embodiment of the web-roll anti-clockspringing mechanism of this invention is disclosed, comprising a unitary cylindrical lock member 78 having a peripheral groove 80 for receiving semi-cylindrical bearing surfaces, not shown, in sidewalls of the housings at their juncture. The lock member 78 has a handle 84 on one side facing the exterior of the cartridge and a lock means on the opposite side extending into the cartridge interior cavity. The lock means comprises an annular, laterally extending rim 86 having a pair of diametrically opposed rim notches 88 forming a pair of diametrically opposed arcuate lock shoulders 90. When the lock member 78 is moved by the handle 84 to an unlocked position, as seen in Figs. 7 and 8, the rim notches 88 are in alignment with a flange lip 92, allowing the lip, flange 94, and web-roll 14 to freely rotate. When the lock member 78 is moved to its locked position, as seen in Fig. 9, the lock shoulders 90 nest within an elongated lip notch 96 in a position transverse to the lip lugs 98 for blocking and preventing the flange 94 and web-roll 14 from rotating.

This invention has been described in detail with particular reference to preferred embodiments thereof, but it will be understood that variations and modifications can be effected within the scope of this invention as defined by the following claims.

Claims

1. A cartridge for a web-roll, comprising:
 - a web-spool (35) onto which web can be wound to form a web-roll (14), the web-spool having at least one flange (34; 94) having an annular lip (66; 92) provided with angularly spaced alternate lugs (68; 98) and notches (70; 96);
 - a housing (16; 18) enclosing and rotatably supporting the web-spool (35), the housing having a pair of side walls (22, 24) facing said at least one flange (34; 94) in closely spaced relation and an exit slot (44) for withdrawing the web;
 - an anti-clockspringing lock member (52; 78) which when in a locked position prevents the flange (34; 94) and web-spool (35) from rotating, and which when in an unlocked position allows the flange (34; 94) and web-spool (35) to freely rotate, said lock member facing a sector of the annular lip (66; 92);
- characterized in that
- said anti-clockspringing lock member is formed of a unitary member (52; 78) having a cylindrical body (54; 80) mounted in an opening in the sidewall (22, 24) of the cartridge (10), so that the body is rotatable about its longitudinal axis, the lock member (52; 78) further has a shoulder (62; 90) lying substantially in the plane of the lip (66; 92) and being mounted on one side of the body (54; 80), the lock member (52; 78) is further adapted to be rotatable between the locked position, in which the lock shoulder (62; 90) nests in one of the lip notches (70; 96) and is transverse to the lugs (68; 98), and the unlocked position in which the lock shoulder (62; 90) is withdrawing from the lip notch (70; 96).
2. A cartridge for a web-roll according to Claim 1 further characterized in that the annular lip (66; 92) is on the periphery of the flange (34; 94) and extends axially outwardly from the flange (34; 94).
3. A cartridge for a web-roll according to Claim 1 further characterized in that the lock shoulder (62; 90) extends axially inwardly toward the flange (34; 94) and has an outer arcuate surface.
4. A cartridge for a web-roll according to Claim 1 further characterized in that the lock member (52; 78) further has a handle (58; 84) on the opposite side of the body (54; 80).
5. A cartridge for a web-roll according to Claim 1 further characterized in that the annular lip (66; 92) is on the periphery of the flange (34; 94) and extends axially outwardly from the flange (34; 94), and wherein the lock shoulder (62; 90) extends axially inwardly toward the flange (34; 94) and has an outer arcuate surface.
6. A cartridge for a web-roll according to Claim 5 further characterized by detent means (74) between the cartridge (10) and the lock member (52) for releasably holding the lock member (52) in its



locked and unlocked positions.

7. A cartridge for a web-roll according to Claim 6 further characterized in that detent means (74) comprises a flexible finger (74) that extends from the sidewall (22, 24) partially across said opening therein and cooperated with a nipple (76) projecting from said one side of the body (54).
8. A cartridge for a web-roll according to Claim 2 further characterized in that the lock member (78) has a pair of axially extending shoulders (90) defining a notch (88) therebetween.
9. A cartridge for a web-roll according to Claim 8 further characterized in that the lock member (78) is rotatably mounted in a bearing in the sidewall (22, 24) of the cartridge (10), wherein the pair of shoulders (90) are positioned in diametrically opposed relation on one side of the body (80), and wherein the lock member (78) further has a handle (84) on the opposite side of the body (80).
10. A cartridge for a web-roll according to one of the preceding claims, characterized in that the shoulder (62; 90) of the lock member (52; 78) is eccentric with respect to the axis of rotation.

Patentansprüche

1. Behälter für eine Bahnrolle, umfassend:
eine Bahnschleife (35), auf die eine Bahn gewunden werden kann um eine Bahnrolle (14) zu bilden, wobei die Bahnschleife mindestens einen Flansch (34; 94) aufweist, der über eine ringförmige Lippe (66; 92) verfügt, welche mit in Drehrichtung beabstandeten einander abwechselnden Stegen (68; 98) und Nuten (70; 96) versehen ist;
ein Gehäuse (16; 18), das die Bahnschleife (35) einschließt und drehbar lagert, wobei das Gehäuse ein Paar Seitenwände (22, 24) aufweist, die dem mindestens einem Flansch (34; 94) dicht beabstandet gegenüberliegen, sowie einen Austrittsschlitz (44) zum Ausziehen der Bahn;
ein Anti-Spiralfederwirkungssperrelement (52; 78), das, wenn es in einer gesperrten Stellung ist, den Flansch (34; 94) und die Bahnschleife (35) am Drehen hindert, und daß, wenn es sich in einer ungesperrten Stellung befindet, es ermöglicht, daß sich der Flansch (34; 94) und die Bahnschleife (35) frei drehen, wobei das Sperrelement einem Sektor der ringförmigen Lippe (66; 92) gegenüber liegt;
dadurch gekennzeichnet,

daß das Anti-Spiralfederwirkungssperrelement aus einem einzelnen Element (52; 78) mit einem zylindrischen Körper (54; 80) geformt ist, das in einer Öffnung der Seitenwand (22, 24) des Behälters (10) montiert ist, so daß der Körper um seine Längsachse drehbar ist, daß das Sperrelement (52; 78) weiterhin eine Schulter (62; 90) aufweist, die im wesentlichen in der Ebene der Lippe (66; 92) liegt und auf einer Seite des Körpers (54; 80) montiert ist, daß das Sperrelement (52; 78) weiterhin drehbar ist zwischen der gesperrten Stellung, in der die Sperrschulter (62; 90) in einer der Lippennuten (70; 96) ruht und sich quer zu den Stegen (68; 98) befindet, und der ungesperrten Stellung, in der die Sperrschulter (62; 90) aus der Lippennut (70; 96) zurückgezogen ist.

2. Behälter für eine Bahnrolle nach Anspruch 1, weiterhin dadurch gekennzeichnet, daß sich die ringförmige Lippe (66; 92) auf dem Umfang des Flansches (34, 94) befindet und sich axial nach außen von dem Flansch (34; 94) erstreckt.
3. Behälter für eine Bahnrolle nach Anspruch 1, weiterhin dadurch gekennzeichnet, daß sich die Sperrschulter (62; 90) axial nach innen zu dem Flansch (34; 94) erstreckt und eine äußere gekrümmte Fläche aufweist.
4. Behälter für eine Bahnrolle nach Anspruch 1, weiterhin dadurch gekennzeichnet, daß das Sperrelement (52; 78) zudem einen Handgriff (58; 84) auf der entgegengesetzten Seite des Körpers (54; 80) aufweist.
5. Behälter für eine Bahnrolle nach Anspruch 1, weiterhin dadurch gekennzeichnet, daß sich die ringförmige Lippe (66; 92) auf dem Umfang des Flansches (34; 94) befindet und axial nach außen von dem Flansch (34; 94) erstreckt, und wobei die Sperrschulter (62; 90) axial nach innen zu dem Flansch (34; 94) verläuft und eine äußere gekrümmte Fläche aufweist.
6. Behälter für eine Bahnrolle nach Anspruch 5, weiterhin gekennzeichnet durch eine Halteeinrichtung (74) zwischen dem Behälter (10) und dem Sperrelement (52) zum lösbaren Halten des Sperrelements (52) in seiner gesperrten und ungesperrten Stellung.
7. Behälter für eine Bahnrolle nach Anspruch 6, weiterhin dadurch gekennzeichnet, daß die Halteeinrichtung (74) einen flexiblen Finger (74) umfaßt, der sich von der Seitenwand (22, 24) teilweise über die Öffnung herein erstreckt und mit einem Nippel (76) zusammenwirkt, der von der einen Seite des Körpers (54) vorsteht.



8. Behälter für eine Bahnrolle nach Anspruch 2, weiterhin dadurch gekennzeichnet, daß das Sperr-
element (78) ein Paar sich axial erstreckender
Schultern (90) aufweist, die dazwischen eine Nut
(88) festlegen. 5
9. Behälter für eine Bahnrolle nach Anspruch 8, wei-
terhin dadurch gekennzeichnet, daß das Sperr-
element (78) drehbar in einem Lager in der Sei-
tenwand (22, 24) des Behälters (10) gelagert ist,
wobei das Schulterpaar (90) in diametral entge-
engesetzter Stellung auf einer Seite des Kör-
pers (80) positioniert ist und wobei das Sperrele-
ment (78) weiterhin einen Handgriff (84) auf der
entgegengesetzten Seite des Körpers (80) auf-
weist. 10 15
10. Behälter für eine Bahnrolle nach einem der vor-
stehenden Ansprüche, dadurch gekennzeichnet,
daß die Schulter (62; 90) des Sperrelements (52;
78) exzentrisch bezüglich der Rotationsachse ist. 20
2. Cartouche selon la revendication 1, caractérisée
en outre en ce que la lèvre annulaire (66 ; 92) se
trouve sur la périphérie de la bride (34 ; 94) et
s'étend axialement à l'extérieur à partir de la bri-
de (34 ; 94).
3. Cartouche selon la revendication 1, caractérisée
en outre en ce que l'épaule de verrouillage
(62 ; 90) s'étend axialement à l'intérieur vers la
bride (34 ; 94) et comporte une face extérieure en
forme d'arc.

Revendications

1. Cartouche pour un rouleau de bande, compre-
nant : 25
- une bobine (35) sur laquelle une bande peut
être enroulée pour former un rouleau (14),
la bobine comportant au moins une bride
(34 ; 94) ayant une lèvre annulaire (66 ; 92)
pourvue d'oreilles (68 ; 98) et d'encoches
(70 ; 96) alternativement espacées angulai-
rement ; 30
 - un boîtier (16 ; 18) enfermant et supportant
de façon à pouvoir tourner la bobine (35), le
boîtier ayant une paire de parois latérales
(22, 24) faisant face à ladite au moins une
bride (34 ; 94) en relation d'écartement pro-
che et une fente de sortie (44) pour retirer
la bande ; 40
 - un élément de verrouillage du type anti-
ressort (52 ; 78) qui lorsqu'il est en position
verrouillée empêche la bride (34 ; 94) et la
bobine (35) de tourner, et qui lorsqu'il est
dans une position non verrouillée permet à
la bride (34 ; 94) et à la bobine (35) de tour-
ner librement, ledit élément de verrouillage
faisant face à un secteur de la lèvre annu-
laire (66 ; 92) ; 45 50
- caractérisée en ce que, ledit élément de verrouil-
lage du type anti-ressort est constitué d'un élé-
ment unitaire (52 ; 78) ayant un corps cylindrique
(54 ; 80) monté dans une ouverture de la paroi la-
térale (22, 24) de la cartouche (10), de sorte que
le corps peut tourner autour de son axe longitu-
dinal, l'élément de verrouillage (52 ; 78) compor-
te en outre un épaulement (62 ; 90) qui se trouve
4. Cartouche selon la revendication 1, caractérisée
en outre en ce que l'élément de verrouillage (52 ;
78) comporte en outre une manette (58 ; 84) sur
le côté opposé du corps (54 ; 80).
5. Cartouche selon la revendication 1, caractérisée
en outre en ce que la lèvre annulaire (66 ; 92) se
trouve sur la périphérie de la bride (34 ; 94) et
s'étend axialement à l'extérieur à partir de la bri-
de (34 ; 94), et l'épaule de verrouillage (62 ;
90) s'étendant axialement à l'intérieur vers la bri-
de (34 ; 94) et comportant une face extérieure en
forme d'arc.
6. Cartouche selon la revendication 5, caractérisée
en outre par un moyen de positionnement (74)
entre la cartouche (10) et l'élément de verrouilla-
ge (52) destiné à maintenir de façon à pouvoir
être dégagé l'élément de verrouillage (52) dans
ses positions verrouillée et non verrouillée.
7. Cartouche selon la revendication 6, caractérisée
en outre en ce que le moyen de positionnement
(74) comprend un doigt souple (74) qui s'étend à
partir de la paroi latérale (22, 24) partiellement en
travers de ladite ouverture de celle-ci et qui coo-
père avec un téton (76) en saillie à partir dudit un
côté du corps (54).
8. Cartouche selon la revendication 2, caractérisée
en outre en ce que l'élément de verrouillage (78)
comporte une paire d'épaulements (90) qui
s'étendent suivant l'axe en définissant une enco-
che (88) entre eux. 55



9. Cartouche selon la revendication 8, caractérisée en outre en ce que l'élément de verrouillage (78) est monté de façon à pouvoir tourner dans un palier de la paroi latérale (22, 24) de la cartouche, les deux épaulements (90) étant positionnés en relation diamétralement opposée sur un côté du corps (80), et l'élément de verrouillage (78) comportant en outre une manette (84) sur le côté opposé du corps (80).

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10. Cartouche selon l'une quelconque des revendications précédentes, caractérisée en ce que l'épaulement (62 ; 90) de l'élément de verrouillage (52 ; 78) est excentré par rapport à l'axe de rotation.

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