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NOTICE OF ENTITLEMENT

We, **V-LITE CORPORATION** of 12310 Granada, Leawood, Kansas, 66209, United States of America state the following in connection with Australian Application No. 56757/96:

1. We are the nominated person.
2. The nominated person is the assignee of the actual inventors.
3. The nominated person is the assignee of the applicant of the basic application listed in the declaration under Article 8 of the PCT.
4. The basic application is the application first made in a Convention country in respect of the invention.

Dated: 29 October 1997

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To: The Commissioner of Patents

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- (56) Prior Art Documents
US 4842217
US 5311388
US 5199662
- (57) Prior video cassette cartridges with releasable dust covers do not disclose a tear strip attached by lines of weakness to a base portion.

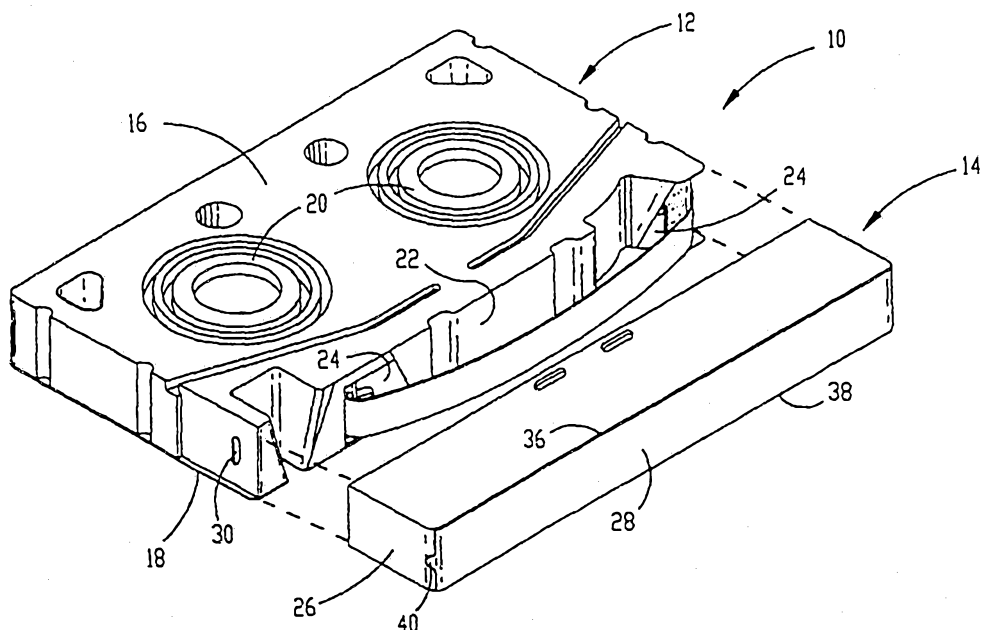
Claim

1. A video cassette cartridge for use in a video cassette recorder, said video cassette cartridge including;
- a video tape housing;
 - a pair of video tape reels rotatably mounted within said housing for storing and winding video tape thereon;
 - said video tape housing having a slot for exposing the video tape; and
 - a dust cover for covering said slot to protect the exposed video tape from damage, said dust cover including:
 - a base portion attached to said housing; and
 - a tear strip releasably attached to said base portion by lines of weakness between said base portion and said tear strip so that said tear strip covers said slot when attached to said base portion and exposes the video tape for play in the video cassette recorder when removed from said base portion.



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<p>(21) International Application Number: PCT/US96/06331 (22) International Filing Date: 6 May 1996 (06.05.96) (30) Priority Data: 08/435,589 5 May 1995 (05.05.95) US (71) Applicant (for all designated States except US): V-LITE CORPORATION [US/US]; 12310 Granada, Leawood, KS 66209 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): KRANTZ, Kermit, T. [US/US]; 12310 Granada, Leawood, KS 66209 (US). JONES, Charles, R., Jr. [US/US]; 2915 West 92nd Street, Leawood, KS 66208 (US). (74) Agent: LUEBBERING, Thomas, B.; Hovey, Williams, Timmons & Collins, Suite 400, 2405 Grand Boulevard, Kansas City, MO 64108 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published With international search report.</p>
<p>(54) Title: LIGHTWEIGHT VIDEO CASSETTE CARTRIDGE</p>  <p>(57) Abstract</p> <p>A lightweight video cassette cartridge (10) formed of recyclable materials is provided. The cassette cartridge includes a video tape housing (12) and a dust cover (14). The dust cover includes a base portion (26) fixedly attached to the video tape housing and a tear strip (28) releasably attached to the base portion for covering the video tape contained in the video tape housing when attached to the base portion and for re-exposing the video tape for play in a VCR when removed from the base portion.</p>		

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LIGHTWEIGHT VIDEO CASSETTE CARTRIDGE5 Field Of The Invention:

 The present invention relates to an inexpensive, limited use video cassette cartridge formed of lightweight, recyclable materials, and more particularly to a lightweight video cassette cartridge including a dust cover having a releasable tear strip.

10 Background Of The Invention:

 The recent proliferation of video cassette players and recorders has created a new market for video taped advertisements and messages. This new market has created an enormous demand for inexpensive and lightweight limited use video cassette cartridges that are suitable for mailing. These cassettes are also suitable for non-commercial recordings such as public service announcements and personal messages sent to family and friends.

20 Prior art attempts to construct lightweight limited use video cassette cartridges have been generally unsuccessful. For example, many prior art video cassette cartridges contain numerous individual parts formed of various materials. The use of such a great number and variety of parts raises the cost and manufacturing time of the cassette cartridges and defeats recyclability. Additionally, prior art video cassette cartridges are formed of heavier materials, and thus are costly to transport and mail.

30 The applicants of the present application have designed novel cassette cartridges that have successfully overcome many of the problems associated with prior art lightweight limited use video cassette cartridges. For example, U.S. Patent No. 5,398,881 discloses a lightweight video cassette cartridge that performs all of the

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functions of a permanent-use video cassette cartridge, but comprises only 8 parts, all made of lightweight recyclable materials. Application serial number 08/321 257 discloses a lightweight video cassette cartridge including a passive reel braking system that replaces more complicated and expensive active
5 braking systems found in prior art cassette cartridges. Application Serial No. 08/343,369 discloses a lightweight video cassette cartridge including a solid-core that adds structural rigidity to the cassette cartridge while replacing the conventional parts of prior art cassette cartridges.

Applicants have recently discovered a new improvement that solves
10 another limitation in prior art lightweight limited use video cassette cartridges. In particular, prior art limited use cassette cartridges include dust covers that are either hinged to the cassette housing or separately formed and removable from the cassette housing. The hinged dust covers require metal hinges that defeat the recyclability of the cartridge and are costly. The removable dust
15 covers often slip off the cartridge during shipping and handling, resulting in damage to the exposed video tape. Moreover, these removable dust covers add to the number of parts of the cassette cartridge and are frequently lost once removed.

Thus, there is a need for an improved lightweight video cassette
20 cartridge that overcomes the limitations described above.

Summary of The Invention:

In view of the limitation of prior art video cassette cartridges described above an advantage of a preferred form of the invention is to provide an
25 improved lightweight limited use video cassette cartridge that includes a dust cover that more effectively protects the video tape from damage during shipping and handling.



It would be further advantageous to provide a lightweight limited use cassette cartridge that includes a dust cover that is fixedly attached to the cartridge housing without the use of costly metal hinges.

It would also be advantageous to provide a lightweight limited use
5 cassette cartridge that includes a dust cover that is inexpensive to manufacture.

According to the present invention there is provided a video cassette cartridge for use in a video cassette recorder, said video cassette cartridge including;

a video tape housing;
10 a pair of video tape reels rotatably mounted within said housing for storing and winding video tape thereon;

said video tape housing having a slot for exposing the video tape; and

a dust cover for covering said slot to protect the exposed video tape from damage, said dust cover including;

15 a base portion attached to said housing; and

a tear strip releasably attached to said base portion by lines of weakness between said base portion and said tear strip so that said tear strip covers said slot when attached to said base portion and exposes the video tape for play in the video cassette recorder when removed from said base portion.

20 Preferably, the base portion is fixedly attached to the video tape housing by glue or other adhesives and includes an opening extending substantially the entire length of the front wall of the video tape housing. The opening is in substantial alignment with the housing slot so that the video tape extending from the slot is not covered by the base portion.

25 The tear strip is releasably attached to the base portion and is sized so that it covers the opening in the base portion when attached thereto. When the cassette cartridge is ready to be played in a VCR, the tear strip is removed from the base portion so that the video tape is exposed for play. The tear strip can be releasably



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attached to the base portion with adhesives or can be integrally formed with the base portion and releasably attached by a perforated or die-cut edge.

By constructing a lightweight video cassette cartridge as described above, numerous advantages are realized. For example, by providing a cassette cartridge having a dust cover that is fixedly attached to the cartridge housing, the dust cover remains fixed to the cartridge housing during shipping and handling and thus protects the video tape contained therein.

Additionally, by providing a cassette cartridge having a dust cover that includes a removable tear strip, the assembled cassette cartridge contains fewer parts and is thus less costly to manufacture.

Another advantage is that by providing a cassette cartridge having a removable tear strip, the video tape contained in the cartridge can be protected during shipping and handling without adding significant weight to the cartridge.

Brief Description Of The Drawings:

A preferred embodiment of the present invention is described in detail below with reference to the attached drawings, wherein:

Figure 1 is an exploded view of a lightweight video cassette cartridge constructed in accordance with a preferred embodiment showing the dust cover removed from the video tape housing;

Fig. 2 is a top perspective view of the cassette cartridge showing the dust cover attached to the video tape housing and the tear strip partially removed from the dust cover; and

Fig. 3 is a top perspective view of a second embodiment of the dust cover.

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Detailed Description Of The Preferred Embodiment:

Referring to Figure 1, a lightweight video cassette cartridge 10 constructed in accordance with the preferred embodiment is illustrated. The preferred cassette cartridge 10 is designed for use with a conventional video cassette recorder (VCR) and broadly includes a video tape housing 12 and a dust cover 14. Both the housing 12 and the dust cover 14 are preferably formed of lightweight recyclable materials such as synthetic resin or paperboard.

In more detail, the housing 12 preferably includes a pair of spaced apart top and bottom panels 16 and 18, and a pair of video tape reels (not shown) rotatably mounted within the video tape housing 12 for winding of video tape. The top and bottom panels 16 and 18 are generally rectangular in shape and are spaced a distance apart to define an interior hollow chamber therebetween. A solid core structural member or conventional posts can be positioned within this hollow chamber for maintaining the spaced relationship between the top and bottom panels 16 and 18.

The top panel 16 includes a pair of reel springs 20 integrally molded thereon. As discussed in detail in commonly owned U.S. Patent No. 5,398,881, hereby incorporated by reference, the video tape reels are subjected to an upward force from the VCR drive spindles which tends to push the reels upward towards the top panel and out of alignment. The reel springs 20 are configured to exert an opposing downward force upon the video tape reels when subjected to an upward force delivered by the VCR spindles.

Bottom panel 18 includes walls defining a pair of drive openings (not shown) for receiving the drive spindles of a VCR. The drive openings are aligned with

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the video tape reels so that the VCR spindles cooperate with the video tape reels.

The top and bottom panels 16 and 18 are secured together to form the assembled housing 12. The assembled housing 12 presents a front wall 22 including structure defining a plurality of slots 24 extending into the housing interior chamber. The slots 24 are provided for transferring video tape between the video tape reels and for exposing a portion of the video tape for play in the VCR.

The dust cover 14 is provided for covering the housing slots 24 so that the exposed video tape is protected from damage during shipping and handling and before the video cassette cartridge 10 is played in the VCR. The dust cover 14 broadly includes a base portion 26 and a tear strip 28.

The base portion 26 slides over the front face of the video tape housing 12 and includes spaced apart top, bottom, left side, and right side faces. The frontmost edges of the left and right side faces are tapered inwardly so that the base portion 26 does not slide beyond the front face 22 of the video tape housing 12. To prevent the dust cover 14 from sliding off the video tape housing 12 during shipping and handling, the left and right side faces are fixedly attached to the video tape housing 12 by glue or other conventional adhesives. The video tape housing 12 may include a plurality of raised edges 30 formed on its left and right sidewalls for facilitating the adhesion of the base portion 26 to the video tape housing 12.

As illustrated in Fig. 2, the frontmost edges of the top, bottom, and left and right side faces of the base portion 26 define an elongated opening 34 extending substantially the entire length of the base portion 26. The elongated opening 34 is in alignment with the video

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tape housing slots 24 when the base portion 26 is attached to the video tape housing 12. With this configuration, the base portion 26 does not cover the video tape extending from the slots 24 when the dust cover 14 is attached to the video tape housing 12.

The tear strip 28 is releasably attached to the base portion 26 and is sized so that it covers the elongated opening 34 of base portion 26 when attached thereto. The tear strip 28 is generally rectangular in shape and presents opposed upper and lower longitudinal edges 36 and 38. When attached to the base portion 26, these longitudinal edges 36 and 38 mate with the base portion 26 for covering the base portion elongated opening 34.

The tear strip 28 may be releasably attached to the base portion 26 in variety of manners. For example, as illustrated in Figs. 1 and 2, the longitudinal edges 36 and 38 of the tear strip 28 can be releasably attached within the opening 34 with conventional adhesives such as glue. Alternately, as illustrated in Fig. 3, the tear strip 28 can be integrally formed with the base portion 26 with its longitudinal edges 36 and 38 perforated or die-cut so that they are releasably attached to the base portion 26. The tear strip 28 preferably includes a pull-tab 40 on one end thereof for facilitating its removal from the base portion 26.

The above-described cassette cartridge 10 can be assembled in several easy steps. First, the video tape reels are loaded with video tape containing a pre-recorded message and inserted into the assembled video tape housing 12. The dust cover 14 is then installed over the front face of the video tape housing and glued or otherwise attached to the raised edges on the sidewalls of the video tape housing 12. When the video cassette cartridge 10 is ready to be played in a VCR, the tear strip 28 is removed

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from the base portion 26 by gripping the pull-tab 40 and pulling the tear strip 28 across the length of the video cassette cartridge 12.

5 Although the invention has been described with reference to the preferred embodiment illustrated in the attached drawing figures, it is noted that equivalents may be employed and substitutions made herein without departing from the scope of the invention as recited in the claims.

10 Having thus described the preferred embodiment of the invention, what is claimed as new and desired to be protected by Letters Patent includes the following:

The Claims defining the Invention are as follows:

1. A video cassette cartridge for use in a video cassette recorder, said video cassette cartridge including;
 - 5 a video tape housing;
 - a pair of video tape reels rotatably mounted within said housing for storing and winding video tape thereon;
 - said video tape housing having a slot for exposing the video tape; and
 - a dust cover for covering said slot to protect the exposed video tape from
 - 10 damage, said dust cover including:
 - a base portion attached to said housing; and
 - a tear strip releasably attached to said base portion by lines of weakness between said base portion and said tear strip so that said tear strip covers said slot when attached to said base portion and exposes the video tape for play in
 - 15 the video cassette recorder when removed from said base portion.
2. A video cassette cartridge according to claim 1, wherein said tear strip includes opposed upper and lower longitudinal edges that are attached within said opening for covering said opening when said tear strip is attached to said base portion.
- 20 3. A video cassette cartridge according to claim 1 or 2, wherein said tear strip is integrally formed with said base portion.
4. A video cassette cartridge according to claim 3 wherein said upper and lower longitudinal edges are perforated so that said tear strip is releasably attached to said base portion.
- 25 5. A video cassette cartridge according to any one of claims 1 to 4, wherein said tear strip includes a pull-tab on one end thereof for facilitating the removal of said tear strip from said base portion.
6. A video cassette cartridge according to any one of claims 1 to 5, wherein said base portion includes a plurality of attachment faces for attaching said
- 30 base portion to said housing.
7. A video cassette cartridge according to claim 1 or 2, wherein said tear strip is releasably attached to said base portion with adhesives.



8. A video cassette cartridge according to any one of claims 1 to 7, wherein said housing includes a plurality of raised edges formed thereon for engaging said dust cover base portion.

9. A video cassette cartridge according to claim 8, wherein said base
5 portion is fixedly attached to said housing with adhesive applied to said raised edges.

10. A video cassette cartridge according to any one of the embodiments substantially as herein described and illustrated with respect to the accompanying drawings.

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