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BOLUS BAG

This invention relates to an excrement catching device, particularly but not exclusively for attachment to the rear end of a dog or other animal in order to collect excrement before it reaches the ground, facilitating collection and disposal.

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US 6394041 discloses an excrement catching device for a dog comprising a receptacle which may be secured by means of straps around a dog's stomach and tail. Such an arrangement is complex and requires engagement of a strap around the dog's stomach and between the upper thighs. Such a harness may be uncomfortable and cause

15 irritation.

A bag in accordance with the present invention has the advantage that it may be conveniently used by a person with limited sight and that a supply of the bags may be provided as a roll from which a single individual bag may be detached for use.

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According to the present invention, a canine bolus bag comprises one or more sheets of foldable material comprising;

a back sheet comprising a rear body and first and second projections extending upwardly from the body;

25 the first and second projections integral with and extending upwardly from the back sheet in spaced relation to define an aperture between the projections;

a front sheet comprising a forward body, secured to the rear body at one or more edges thereof to form an upwardly opening pouch which hangs downwardly from the first and second projections in use;

30 the front sheet and a third projection extending from an upper edge of the pouch, the third projection being arranged to hang downwardly from the upper edge adjacent the outside of the pouch in use so that the weight of the third projection pulls a central portion of the front sheet outwardly away from the back sheet to hold the bag open in use to form an upwardly opening pouch;

35 wherein the first and second projections are configured to be located on opposite sides of a dog's tail and tied together to secure the pouch;

5 wherein the three projections have lengths selected so that the third projection
may be tied to one or both of the first or second projections to close the pouch after
use.

10 The bag is preferably formed from one or more sheets of foldable material. For
example, polyethylene or other polymeric sheet material may be used. Alternatively, the
bag may be composed wholly or partially of paper suitably coated to render the pouch
waterproof. Use of paper or other biodegradable material is preferred.

15 The bag may comprise a conventional cylindrical or rectangular plastics or paper
bag with the mouth portion cut away to form the first, second and third projections with
apertures between the projections.

20 Preferably the bag consists entirely of the back and front sheets and projections, no
fasteners or other non-sheet components being present.

 Alternatively or in addition one or more adhesive pads may be secured to the sheets
as described below.

25 It is particularly advantageous for simplicity of manufacture, storage,
transportation, dispensing and use that clips, straps or other ties are absent.

30 In use of the bag the front sheet is arranged facing towards a user as the user stands
behind the dog to affix the bag to the dog's hind quarters. The back sheet faces away from
the user to contact the dog's hind quarters so that both front and back sheets hang
downwardly from a point of attachment when the projections are tied around the base of a
dog's tail.

35 The bag may be formed from a single tubular or folded sheet or from two sheets,
edges of the or each sheet being sealed together by thermal bonding or using an adhesive
to form a tubular bag with a closed bottom and an upwardly facing opening to the pouch.

5 The front sheet may have a width greater than the back sheet so that the pouch naturally adopts an open position with a flat surface located against the dog's upper thighs and a curved open pouch facing rearwardly away from the dog's upper thighs. Alternatively, the back sheet may have a greater width than the front sheet so that the pouch naturally adopts an open position with the back sheet curved between the dog's
10 upper thighs.

 The third projection hangs downwardly from the exterior of the pouch, preferably from a central location thereof, in order to create a force to urge the pouch into an open position. The length and width of the third projection are preferably selected so that the
15 weight thereof pulls the mouth of the pouch into an open configuration.

 Preferably, the central location of the pouch opening is lower than the sides adjoining the back sheet. This facilitates opening of the pouch in use.

20 One or more, preferably two, adhesive pads may be provided additional to the bag. These may be on the exterior of the bag sheet in order to allow for the bag to be secured to the rear of a dog's upper thighs. The adhesive pads securing the back sheet to the dog's upper thighs help maintain the pouch in a slightly open position. Preferably a non-setting adhesive is used so that the bag may be removed without causing discomfort. The
25 adhesive pads may comprise portions of adhesive tape provided with peelable cover films. Alternatively, the first and second projections may be arranged to overlies and protect the adhesive pads until the bag is deployed when required for use.

 Use of a bolus bag in accordance with the present invention confers several
30 advantages. Fastening straps and clips or other harness arrangements are not required. A harness arrangement may be difficult to adjust and secure and may require regular cleaning. In addition, location of a harness adjacent a dog's stomach or rear upper thighs may impede the dog's movement and cause irritation. The entire bolus bag may have a unitary construction, be light in weight and flexible in use, creating a minimum of
35 discomfort to a dog. The bag may be conveniently disposed of with minimal adverse environmental impact.

5 In preferred embodiments, the three projections may have lengths selected so that upper ends thereof are adjacent in order to facilitate tying together.

 In preferred embodiments, the first and second projections form an aperture with a rounded lower edge, dimensioned to receive a dog's tail.

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 According to a further aspect of the present invention there is provided a continuous sheet of bags in accordance with this invention joined consecutively by tearable perforated junctions, and a container having an opening through which the sheet may be withdrawn in use. The continuous sheet may be provided as a roll or as an
15 alternating stack.

 The container may comprise a cardboard box or carton or a box or carton formed from other suitable packaging material, wherein a mouth through which the sheet is dispensed includes a cutting edge which may be used to detach a single bag from the
20 continuous sheet.

 The invention is further described by means of example, but not in any limitative sense, with reference to the accompanying drawings, of which:

 Figure 1 is a rear view of a bolus bag in accordance with the invention;
25 Figure 2 is a front view of the bag;
 Figure 3 is a side view of the bag;
 Figure 4 shows a front sheet of the bag;
 Figure 5 shows a front sheet of the bag with the projection folded downwardly;
 Figure 6 shows the back sheet of the bag.

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 A bolus bag in accordance with this invention is shown in Figures 1-6.

 Figure 1 shows a rear view of the bag. A back sheet (1) has a generally rectangular configuration and first (2) and second (3) projections extending upwardly from sides of the
35 back portion (1) to define an aperture (5) between the sides and a lower edge (4) of the aperture (5) having a curved configuration. The projections (2,3) are inclined inwardly so that the top portions (6,7) are located adjacent each other with a relatively narrow aperture

5 (8) between them. The aperture (5) is dimensioned to be comfortably received around the base of a dog's tail (not shown) with the ends (6,7) of the projections (2,3) being tied together to secure the bag.

A front view of the bag shown in Figure 2 shows a front sheet (9) secured at edges
10 (13,14,15) to the back sheet (1) to form an upwardly opening pouch. A strip shaped rectangular projection (10) integral with the front sheet (9) extends upwardly from the upper edge of the front sheet as shown in Figure 4. In preferred embodiments, the projection (10) is formed integrally from the same material as front sheet (9). Figures 3 and 5 show the rectangular projection (10) hanging downwardly on the exterior of the
15 front sheet (9) so that the weight of the projection (10) pulls the central portion (11) of the pouch outwardly away from the back sheet (1) so as to hold the pouch open in use. The central portion (11) is preferably lower than the side portions which adjoin the back sheet (1)

20 After use the ends (6,7,12) may be tied together in order to close the pouch for disposal.

CLAIMS

1. A canine bolus bag comprises one or more sheets of foldable material comprising;
 - a back sheet comprising a rear body and first and second projections extending upwardly from the body;
 - the first and second projections integral with and extending upwardly from the back sheet in spaced relation to define an aperture between the projections;
 - a front sheet comprising a forward body, secured to the rear body at one or more edges thereof to form an upwardly opening pouch which hangs downwardly from the first and second projections in use; and
 - a third projection extending from an upper edge of the pouch, the third projection being arranged to hang downwardly from the upper edge adjacent the outside of the pouch in use so that the weight of the third projection pulls a central portion of the front sheet outwardly away from the back sheet to hold the bag open in use to form an upwardly opening pouch;
 - wherein the first and second projections are configured to be located on opposite sides of a dog's tail and tied together to secure the pouch;
 - wherein the three projections have lengths selected so that the third projection may be tied to one or both of the first or second projections to close the pouch after use.
2. A canine bolus bag as claimed in claim 1, formed from one or more sheets of foldable material.
3. A canine bolus bag as claimed in claim 2, comprising polymeric or paper sheet material.
4. A canine bolus bag as claimed in any preceding claim, wherein the front sheet has a greater width than the back sheet.
5. A canine bolus bag as claimed in any preceding claim, wherein the third projection hangs downwardly from a central location of the exterior of the pouch.

6. A canine bolus bag as claimed in claim 5, wherein the central location is lower than side locations adjoining the back sheet.
7. A bolus bag as claimed in any preceding claim, wherein the third projection comprises folded material.
8. A bolus bag as claimed in any preceding claim, including one or more adhesive pads on the exterior of the front sheet.
9. A continuous sheet of bags as claimed in any preceding claim, joined consecutively, end to end, by tearable perforated junctions and a container having an opening through which the sheet may be withdrawn in use.