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Állateledel

Az európai szabadalom ellen, megadásának az Európai Szabadalmi Közlönyben való meghirdetésétől számított kilenc hónapon belül, felszólalást lehet benyújtani az Európai Szabadalmi Hivatalnál. (Európai Szabadalmi Egyezmény 99. cikk(1))

A fordítást a szabadalmas az 1995. évi XXXIII. törvény 84/H. §-a szerint nyújtotta be. A fordítás tartalmi helyességét a Szellemi Tulajdon Nemzeti Hivatala nem vizsgálta.

Animal Feed

Description

The invention relates to an animal feed for dogs and cats produced on the basis of animal tissue, vegetable starch and water. An animal feed having the features specified in the preamble of claim 1 is known from WO 02/051443.

Wet feeds that contain chunks of meat or fish and are sold in upright bags are known, e.g. from Whiskas: "Purrfectly Fish from Whiskas" October 30, 2007, page 1-1, XP 002595625 found on the internet: URL: http://web.archive.org/web/20071030025336/http://www.whiskas.com/meal_time/purrfectly_fish/pf_sardine.aspx as well as from Mintel GNPD: "Cat Food with

Poached Salmon in Sauce" October 1, 2001, Seite 1-1, XP002595627 found on the internet: URL: http://www.gnpd.com/sinatra/gnpd/search_results/&s_sort=2&item_id10094804 and from Mintel GNPD: "Chunks in Gravy Extension" April 1, 2001, page 1-1 XP002595628 found on the internet URL: http://www.gnpd.com/Sinatra/gnpd/search_results/&s_sort=2&item_id=10084607.

US 3 653 908 discloses a liquid animal feed that is made generally of a meat paste and contains 35 to 45 % water.

The problem addressed by the present invention is that of providing a method for cost-effectively producing an animal feed which can be easily digested by house pets and can be offered to dogs and cats as a snack or reward.

This problem is solved by an animal feed having the features specified in claim 1. Advantageous refinements of the invention are the subject matter of dependent claims.

Dogs and cats that are kept as house pets frequently suffer from overfeeding, and the health problems that are associated with this. An animal feed according to the invention, produced on the basis of animal tissue, vegetable gluten-free starch and water, has low nutritional value due to its high water content, and can therefore be offered to house pets as a snack or a reward, without leading to the health problems that result from overfeeding, such as obesity and diabetes.

As the animal tissue, low-protein tissue, such as skin, sinews, intestines, etc., can be used. Entrails or muscle tissue, particularly a mixture of entrails and muscle tissue, are preferably used. Animal byproducts of this type are cost-effective, and also have an advantageously low calorie content. To produce an animal feed according to the invention, the animal tissue is pureed and mixed with vegetable gluten-free starch, water and optionally additives, such as dyes and/or sweeteners. The mixture is then heated for several minutes to between 90°C and 130°C. With this step, the animal feed is sterilized, and the starch is advantageously modified such that the feed obtains a viscous, non-lumpy, quick-breaking consistency, similar to ketchup. Due to its fluid, creamy consistency, an animal feed of this type can be lapped up by dogs or cats, and can be easily administered.

An animal feed according to the invention preferably has a nutritional value of less than 1 kcal, preferably less than 0.7 kcal, particularly preferably less than 0.5 kcal per gram. Therefore, snack portions of 10g to 30g can safely be offered even several times daily, without fear of the pet gaining weight.

The water content of the animal feed is at least 80 wt%, preferably at least 85 wt%. The animal feed has a fat content of at least 1 wt%, and less than 5 wt%, for example, 2 wt% to 4 wt%, particularly preferably less than 3 wt%. The starch content preferably amounts to less than 7 wt%, preferably less than 5 wt%, and the protein content preferably amounts to less than 8 wt%, for example, 1 wt% to 5 wt%, preferably less than 2 wt%, particularly less than 1 wt%, especially less than 0.5 wt%.

A gluten-free starch, for example, cornstarch, is preferably used as the starch. Gluten-free starch is particularly easily digestible to dogs and cats.

To improve the appearance of the animal feed, one or more dyes can be added to it. Iron oxide and/or sugar coloring are preferably used. These will give the product a pleasing red or reddish-brown color.

To improve the taste, non-nutritive sweetener, for example, xylose can be added to the animal feed. Xylose is practically non-digestible to dogs and cats, and therefore, it will not increase the nutritional value of the feed. The xylose content is preferably 0.1 wt% to 1.0 wt%, more particularly 0.1 wt% to 0.5 wt%. Alternatively or additionally, glycine may be added to the animal feed as a non-nutritive sweetener. The glycine content is preferably 0.1 wt% to 5 wt%, preferably 0.1 wt% to 2 wt%. To improve the taste, an amino acid mix can also be added. Glycine, lysine, methionine and cysteine are particularly preferable for this purpose.

The animal feed is packaged in tubular pouches or pillow packs. Portion sizes of 10 g to 30 g are particularly advantageous. This is an ideal quantity for use as a snack or treat for dogs and cats.

Additional details and advantages of the invention will be specified within the context of one embodiment example, with reference to the attached drawing.

Figure 1: shows an embodiment example of a tubular pouch containing animal feed.

To produce an animal feed according to the invention, animal byproducts, for example, muscle tissue and entrails or low-protein tissue such as skin, sinews or bones, are pureed and mixed with cornstarch and water to form a homogeneous mass. 100 g water is added to approximately every 5 to 10 g animal tissue and 3 to 5 g cornstarch. Dyes and/or non-nutritive sweeteners may also be added. For example, iron oxide and sugar coloring may be added as dyes, giving the animal feed a red or reddish-brown color. Xylose is also added, for example, in a quantity of 0.1 wt% to 0.5 wt%.

To improve the taste, amino acids are added, preferably glycine, lysine, methionine and/or cysteine. Amino acids can be added as an amino acid mix. To sweeten the animal feed, glycine may be added. The amino acid content should not exceed a total of 5 wt%. For example, 0.1 wt% to 2 wt%, more particularly, 0.5 wt% to 1 wt% amino acids can be added. The glycine quantity should not exceed 5 wt%. For example, 0.1 wt% to 2 wt%, more particularly, 0.5 wt% to 1 wt% glycine can be added.

The animal feed is sterilized by the heat treatment. Additionally, the starch is advantageously modified such that the animal feed obtains a viscous, ketchup-like consistency. More particularly, the animal feed can become thixotropic

as a result of the starch, in other words, it can initially have a high viscosity, which decreases under the influence of force.

The starch advantageously acts as a thickening agent. More particularly, after heating, cornstarch becomes an effective hydrocolloid, resulting in an advantageous, viscous consistency. Other possible hydrocolloids include guar gum, carrageenan, xanthan gum, carob gum and/or sodium carboxymethyl cellulose, for example. The animal feed has a fat content of 2 wt% to 5 wt%, a hydrocolloid content, more particularly, a starch content of 0.5 wt% to 6 wt%, preferably 3 wt% to 6 wt%, a protein content of 1 wt% to 5 wt%, and a water content of at least 80 wt%, preferably at least 85 wt%.

The mixture is packaged in portions inside tubular pouches and then heated to between 90°C and 130°C. An embodiment example of a tubular pouch is illustrated in figure 1. For cats, a tubular pouch contains 12 g to 18 g, and for dogs, 20 g to 30 g, for example.

The length of the tubular pouches is preferably at least five times the width thereof. For example, the tubular pouches can be 7 to 10 times as long as they are wide. The tubular pouches preferably have a length of 160 mm to 180 mm, particularly preferably 165 mm to 175 mm.

The tubular pouch illustrated in figure 1 is sealed at both ends by welding the upper and lower ends thereof together in welding areas 2 and 4. Welding area 2 at the front end of the pouch is equipped with a predetermined breaking point 3, for example, a notch or a perforation, to facilitate tearing open of the pouch 1. Welding area 2 is extended toward the back end on the side having the notch 3, which in the drawing is the right side, preferably with a region delimited in the shape of an arch, which ends at one side at a strip-shaped region. The distance between the notch 3 and the front end of the pouch 1 is also greater than the width of welding area 2, measured in the longitudinal direction of the pouch, on the side opposite the notch 3. Thereby, when the pouch 1 is torn open, it is opened across only part of its width, preferably across less than one-half its width.

When combined with the viscous, creamy consistency of the animal feed, this measure allows the animal feed to be dispensed from a torn-open pouch only slowly. The risk of soiling by animal feed being dispensed in an uncontrolled manner is thereby advantageously counteracted. To dispense animal feed from the pouch, a user can press with the thumb and forefinger against the upper and/or lower sides, sliding the fingers up from the rear end of the pouch toward the front end of the pouch.

Welding area 4 at the rear end of the pouch is preferably 5 mm, particularly preferably at least 6 mm wide, more particularly, at least 7 mm wide. The width is measured in the longitudinal direction of the pouch 1. Advantageously, the pouch can be easily grasped at the wide welding area for squeezing the contents out. Welding area 4 is widened at its lateral edges. This allows the pouch to be completely emptied more easily.

The pouch 1 is made of a coated metal foil, for example, coated aluminum foil. The metal foil is preferably coated on both sides with plastic, for example, with polyethylene or polyethylene terephthalate. In the illustrated embodiment example, the pouch is made of aluminum foil, which is coated on one side with polyethylene and on the other side with polyethylene terephthalate. The tubular pouches are packed into cartons. Preferably, 5 to 12 tubular

pouches are packed into each carton. Cardboard cartons are preferably used. The cartons preferably have a width of between 9 and 10 cm. The length of the cartons is preferably 17 cm to 19 cm, particularly preferably 17.5 cm to 18.5 cm. The animal feed can be advantageously marketed and suitably presented in practical quantities in cartons of this type.

Állateledel

Szabadalmi igénypontok

1. Állateledel kutyák vagy macskák számára, amely pürésített állati szöveten, vízen és sűrítőanyagként szolgáló hidrokolloidon alapul, ahol az állateledel

vízirtartalma legalább 80 tömeg%, előnyösen legalább 85 tömeg%,

zsírtartalma legalább 1 tömeg% és kevesebb, mint 5 tömeg%, valamint

keményítőtartalma kevesebb, mint 7 tömeg%,

azzal jellemezve, hogy

az állateledel szobahőmérsékleten folyékony,

tixotróp,

fehérjetartalma 1 és 5 tömeg% közötti, és

egy tömlőtasakban (1) van becsomagolva,

ahol a tömlőtasak (1) elülső és hátulsó végén annak felső oldala és az alsó oldala egy hegesztési felületen (2, 4) össze van hegesztve és a hegesztési felületek (2) egyikében, az elülső végén, egy kényszerszakadási hely (3) van a tasak (1) felszakításához létrehozva,

ahol a hidrokolloid gluténmentes keményítő.

2. Az 1. igénypont szerinti állateledel, **azzal jellemezve, hogy** az állateledel tápértéke grammonként kevesebb, mint 1 kcal, előnyösen kevesebb, mint 0,7 kcal, különösen előnyösen kevesebb, mint 0,5 kcal.

3. Az előző igénypontok bármelyike szerinti állateledel, **azzal jellemezve, hogy** a hegesztési felület (2) a kényszerszakadási helyet (3) tartalmazó oldalon a hátsó vég felé meg van hosszabbítva.

4. Az előző igénypontok bármelyike szerinti állateledel, **azzal jellemezve, hogy** a hegesztési felület (2) a tasak (1) kényszerszakadási helytől (3) távolabb eső végén a szélei felé ki van szélesítve.

5. Az előző igénypontok bármelyike szerinti állateledel, **azzal jellemezve, hogy** a zsírtartalma kevesebb, mint 3 tömeg%.

6. Az előző igénypontok bármelyike szerinti állateledel, **azzal jellemezve, hogy** a zsírtartalma legalább 2 tömeg%.

7. Az előző igénypontok bármelyike szerinti állateledel, **azzal jellemezve, hogy** hidrokolloid-tartalma kevesebb, mint 7 tömeg%, előnyösen 0,5 és 6 tömeg% közötti.

8. Az előző igénypontok bármelyike szerinti állateledel, azzal jellemezve, hogy édesítőszeret tartalmaz.
9. Az előző igénypontok bármelyike szerinti állateledel, azzal jellemezve, hogy xilózt tartalmaz.
10. Az előző igénypontok bármelyike szerinti állateledel, azzal jellemezve, hogy glicint tartalmaz.
11. Az előző igénypontok bármelyike szerinti állateledel, azzal jellemezve, hogy szobahőmérsékleten viszkózus.
12. Az előző igénypontok bármelyike szerinti állateledel, azzal jellemezve, hogy 10 és 30 g közötti adagokban van becsomagolva.
13. Az előző igénypontok bármelyike szerinti állateledel, azzal jellemezve, hogy a tömlőtasaknak (1) olyan hosszúsága van, amely legalább az ötszöröse, különösen legalább a hétszerese a szélességének.

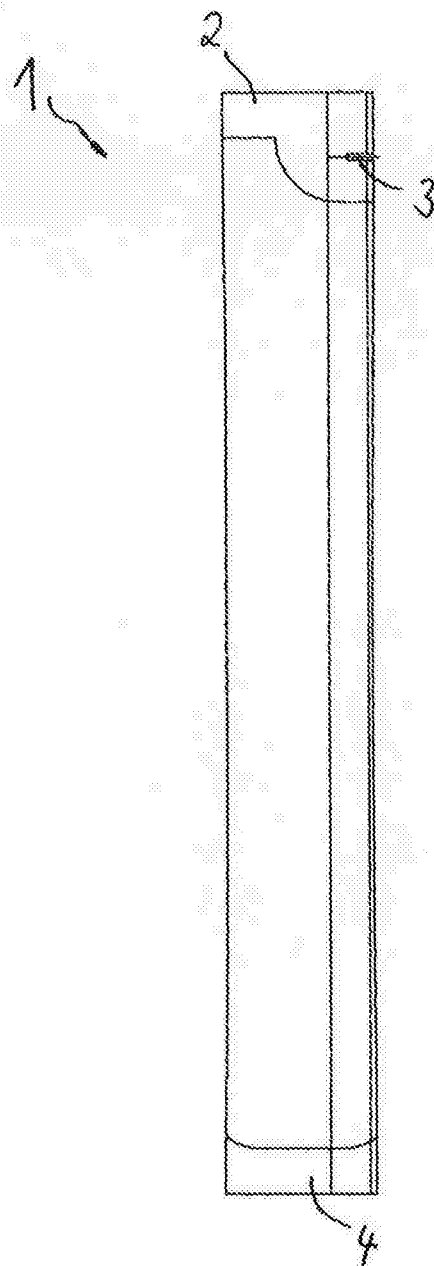


Fig. 1