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## (54) PHARMACEUTICAL PRODUCT IN COMPOSITION FOR VETERINARY USE

(71) I, HEINZ V. D'USCIO of Bubenberglplatz 11, 3001 Berne, Switzerland, a citizen of Berne, Switzerland, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:-

This invention relates to compositions and to methods of manufacture of compositions of pharmaceutical products that have application in veterinary practice, to the products of the said methods of manufacture and to ways of administering the compositions. The purpose of the invention is to enable the pharmaceutical products to be taken more easily by animals and thus to improve the uptake of the products by animals being treated by the oral route of administration.

According to the present invention there is provided a composition of a pharmaceutical product for veterinary use, in which the product has added thereto or chemically combined therein a natural or an artificial odorous or flavouring substance specific to a species and/or to a breed of animal, for oral administration to that species or breed of animal.

The composition may be made by a method including adding or combining a flavouring or odorous substance to or with a pharmaceutical product, which substance is specific to the species and/or breed of animal.

The composition is manufactured in embodiments of the invention by (physically) adding to or chemically combining with a pharmaceutical product without losing odour or flavour a naturally occurring or artificially produced odorous or flavouring substance. In the compositions of these embodiments the odorous or flavouring substance is specifically associated with a particular species or breed of animal; such compositions are for treating the particular breed or species of animal by oral administration.

One or more than one odorous or flavouring substance can be added to or combined with the pharmaceutical product during manufacture of the composition.

In order to enable the invention to be better understood a particular embodiment of the

invention will now be described, by way of example.

In the composition of a pharmaceutical product which is intended to be taken by young pigs, a quantity of an artificial flavouring substance having the flavour of sow's milk is added to the product in an amount sufficient to flavour the composition and make it more palatable to young pigs. The amount of the substance to be added to the product will be apparent to those skilled in the art of manufacturing compositions of pharmaceutical and feed products containing flavouring substances which are not specifically associated with any particular recipient.

A composition containing the pharmaceutical product and the odorous or flavouring substance can be administered to an animal in one or more states of aggregation with other substances. Furthermore, it can be administered alone, as a mixture with atmospheric air, with the drinking water or with the food of the animal, or with a combination thereof.

It is possible to cover the composition with a coating which may or may not include nourishment or feed components. Furthermore the composition can include a carrier substance for the pharmaceutical element of the composition. It is possible for the carrier substance to include nourishment or feed components. It will be understood that the odorous or flavouring substance can also be included in the carrier substance.

The amount in the composition of the odorous or flavouring substance employed can be selected according to the age and/or the alimentary physiological capacity of absorption of the animals.

In one application of the invention, the amount of the pharmaceutical product in the composition is so low that the composition has merely a prophylactic effect on the animal.

In another application, the content of the pharmaceutical element of the composition merely gives a nutritive character.

It will be appreciated that although the invention has been described, by way of example, with reference to particular embodi-

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ments, variations and modifications can be made within the scope of the invention claimed.

5 WHAT I CLAIM IS:—

1. A composition of a pharmaceutical product for veterinary use in which the product has added thereto or chemically combined therein a natural or an artificial odorous or flavouring substance specific to a species and/or to a breed of animal, for oral administration to that species or breed of animal.

10 2. A method for oral administration to a said species and/or breed of said animal of the composition of claim 1, in which the composition is administered in any state of aggregation with other materials, alone, or as admixture to atmospheric air, to drinking water or to the food of the animal or in a combination thereof.

20 3. The composition as claimed in claim 1, in which the composition is provided with a coating.

25 4. The composition as claimed in claim 1 or 2, in which the composition includes a carrier substance for the pharmaceutical product.

30 5. The composition as claimed in claim 3, in which the coating includes nourishment or feed components.

6. The composition as claimed in claim 4,

in which the carrier substance includes nourishment or feed components.

7. A composition as claimed in claim 1 or any one of claims 3 to 6, in which the amount of said odorous or flavouring substances is selected according to the age and/or the alimentary physiological capacity of absorption of the specific breed or species of animal for whose use the product is intended.

8. A composition as claimed in claim 1 or or any one of claims 3 to 7, in which the content of the pharmaceutical product in the composition is so low that said composition has merely a prophylactic character; or in which the proportion of the pharmaceutical product merely gives a nutritive character.

9. A method of making the composition defined in claim 1 or in any one of claims 3 to 8, comprising adding or combining a flavouring or odorous substance to or with a pharmaceutical product, said substance being specific to the species and/or breed of animal.

10. A composition made in accordance with the method described herein with reference to the particular embodiment of the invention.

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