



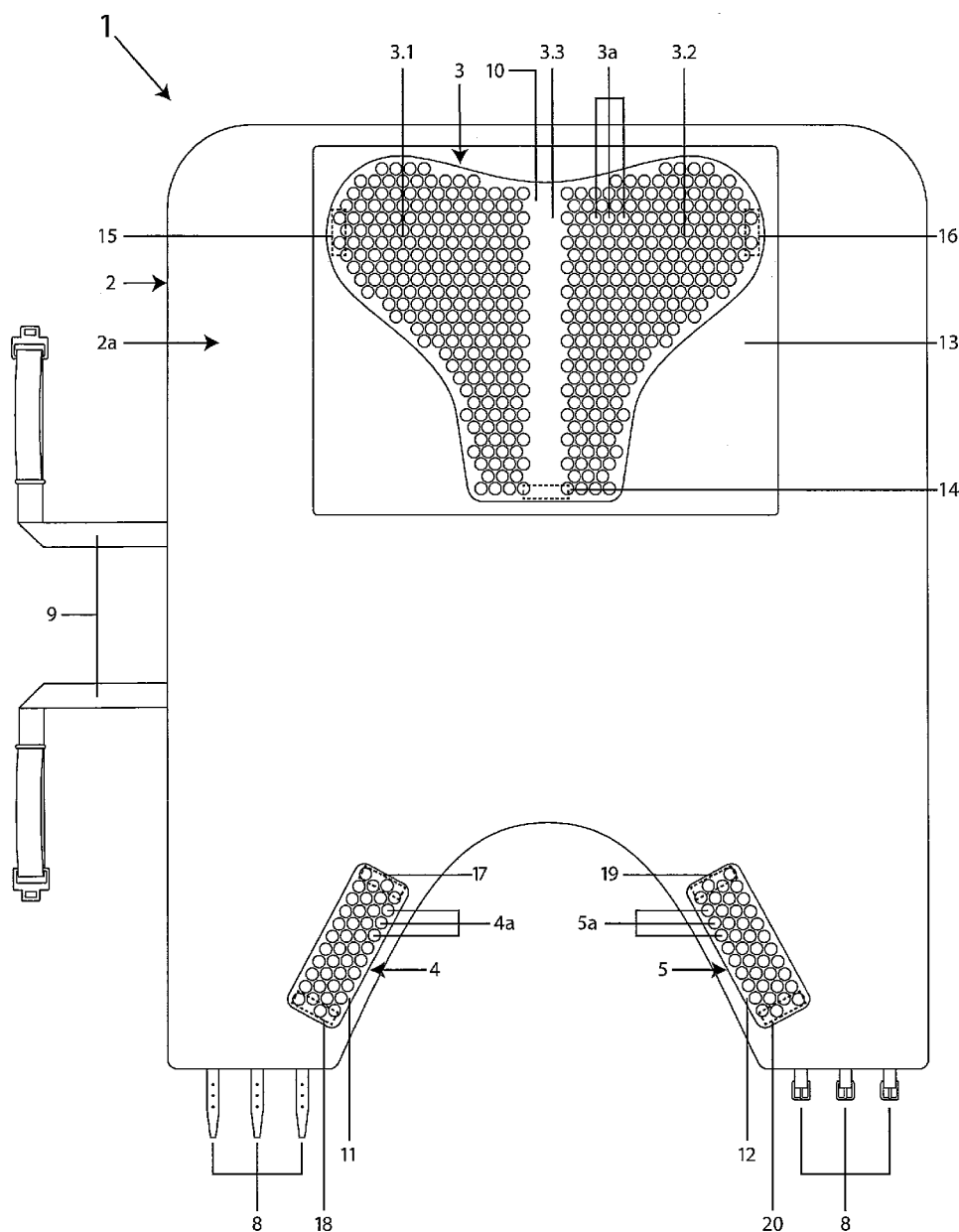
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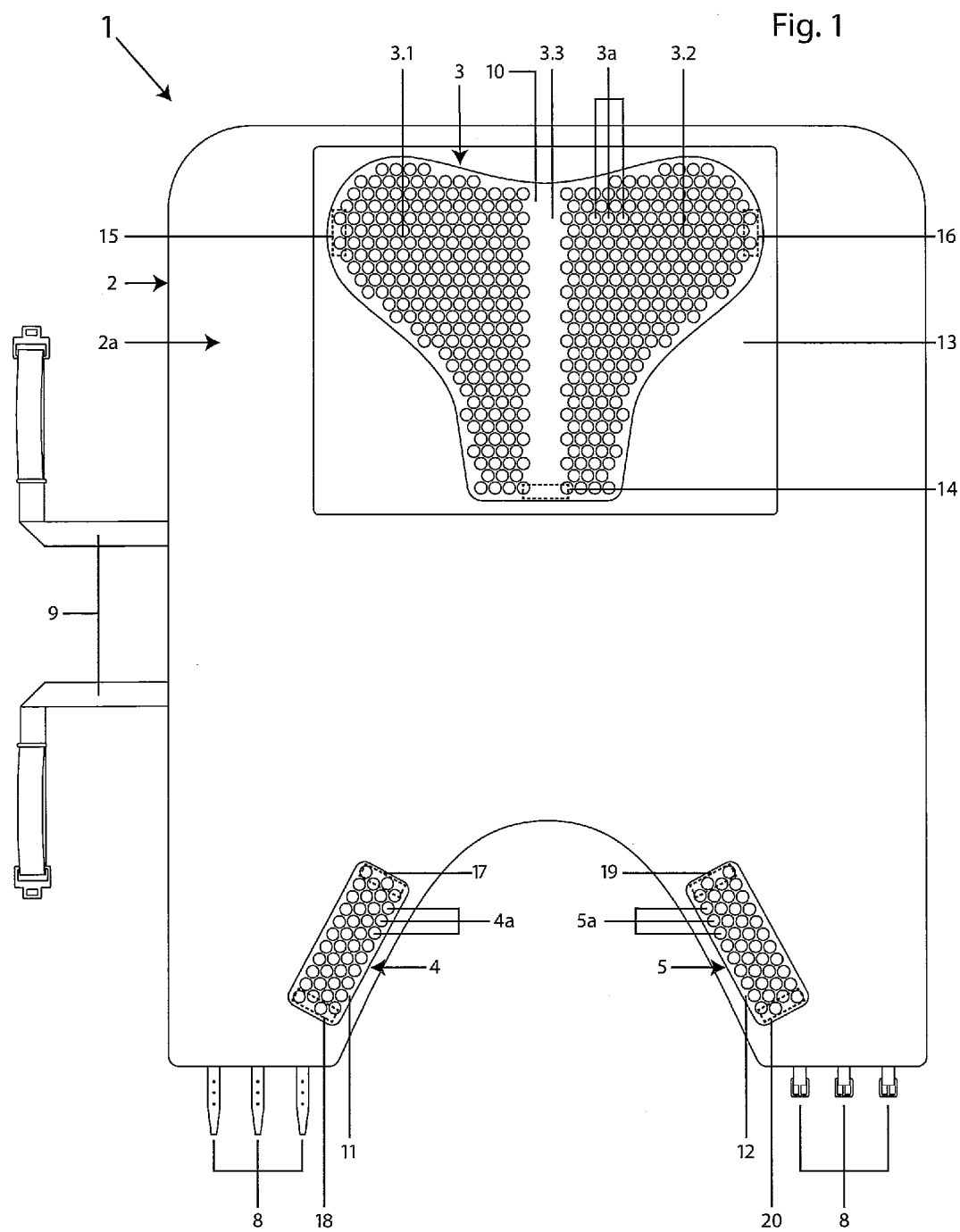
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HOFFMANN(10) **Pub. No.: US 2012/0247400 A1**(43) **Pub. Date: Oct. 4, 2012**(54) **ANIMAL COVER****Publication Classification**(76) Inventor: **Max HOFFMANN**, Kungsängen
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A01K 13/00 (2006.01)(52) **U.S. Cl.** 119/850(21) Appl. No.: **13/352,028**(57) **ABSTRACT**(22) Filed: **Jan. 17, 2012**

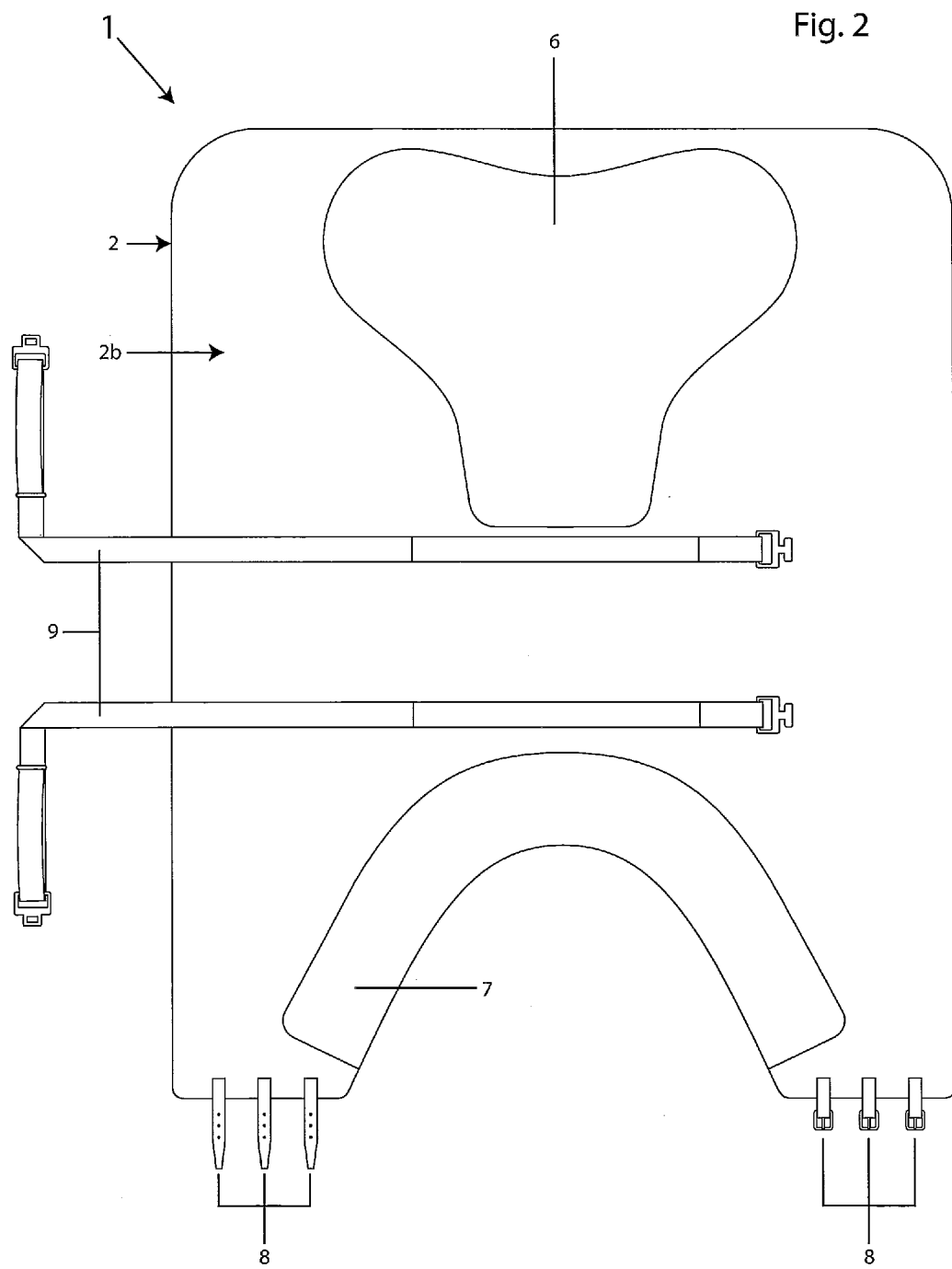
This invention concerns an animal cover **1** comprising a piece of fabric **2** with an extended surface area and at least one spike mat **3-5**. Each spike mat **3-5** is arranged and fixed in place on the side **2a** of the piece of fabric **2** that is in contact with the animal, with the spikes **3a-5a** of the spike mat facing in towards the animal.

(30) **Foreign Application Priority Data**

Mar. 28, 2011 (SE) 1150272-1







ANIMAL COVER

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to Swedish Patent Application No. 1150272-1, filed Mar. 28, 2011, which is hereby incorporated by reference in the present disclosure in its entirety.

BACKGROUND

[0002] 1. Field

[0003] This invention concerns an animal cover intended to be used on and around the body of an animal as specified by the patent claims.

[0004] 2. Description of the Related Art

[0005] The use of various types of animal cover to keep an animal warm and dry is previously known. Such covers are normally manufactured from fabric or a material similar to fabric with an extended surface area and with various properties. They are either placed onto the animal or wrapped around the animal, or both, in order to offer warm protection that also protects from water during transport, while the animal is outdoors, and on other occasions.

BRIEF SUMMARY

[0006] One purpose of this invention is to offer an animal cover that not only provides warmth and protection from the weather, but also stimulates the muscles of the animal.

[0007] This is achieved with an animal cover as specified in claim 1.

BRIEF DESCRIPTION OF DRAWINGS

[0008] FIG. 1 shows an animal cover, its inner surface, that surface of the animal cover that lies against the animal when the animal cover is in use, according to the invention, and

[0009] FIG. 2 shows the second surface of the animal cover, its outer surface, that surface of the animal cover that faces away from the animal and out towards the surroundings.

DETAILED DESCRIPTION

[0010] The following description sets forth exemplary methods, parameters and the like. It should be recognized, however, that such description is not intended as a limitation on the scope of the present disclosure but is instead provided as a description of exemplary embodiments.

[0011] The invention concerns an animal cover 1 that comprises a piece of fabric 2 with an extended surface area and at least one spike mat 3-5, a construction that has an extended area with protruding spikes, 3a-5a. Each spike mat 3-5 is arranged and fixed in place on the side 2a of the piece of fabric 2 that is in contact with the animal when the animal cover 1 is in use, with the spikes 3a-5a facing in towards the animal. See FIGS. 1 and 2. The animal cover 1 in the drawings is provided with three different spike mats 3-5.

[0012] Each spike mat 3-5, the spikes 3a-5a of each mat, come into contact with the animal and each spike 3a-5a constitutes an acupuncture point at which a specific point, a trigger point, of the animal is contacted and stimulated. The contact of many spikes, a complete spike mat, onto the animal, and the stimulation of the animal at many trigger points that thus arises, results in an increase in the blood circulation of the animal. An increase in blood circulation is good for the animal during, among other occasions, the period before exercise and competition, during recovery after exercise and competition, and it is generally good for the wellbeing of the

animal. An increase in blood circulation leads also to an increase in the relaxation of the animal, and a fall in its level of stress.

[0013] A spike mat 3 is located in such a manner that the spike mat 3 lies in contact with the muscles of the back and the lower back of the animal when the animal cover 1 lies on the animal. The spike mat 3 is located centrally in the piece of fabric 2 at its rear edge 2.1, at the area that lies on the rear part of the animal when the animal cover 1 is in use. The spike mat 3 is divided into two regions 3.1 and 3.2 such that the active spikes 3a of the spike mat are located in these two regions 3.1 and 3.2. The regions 3.1 and 3.2 are arranged one on each side of the spine of the animal, with a region 3.3 that is free of spikes between them, such that the spine of the animal lies free under this region 3.3. Thus, there are no spikes that are in contact with the animal on or in the direct vicinity of its spine.

[0014] Two further spike mats 4 and 5 are located in such a manner that the spike mats 4 and 5 come into contact with the shoulder muscles of the animal when the animal cover 1 is placed onto an animal. Since the piece of fabric 1 is divided at this part of the animal cover 1, two spike mats 4 and 5 are used, one on each side of the shoulder section of the animal. If the animal cover 1 is undivided in this region, it is possible to use only one spike mat, which is in contact with the shoulder muscles of the animal.

[0015] An animal cover 1 according to the invention may be provided with either fewer or more numerous spike mats, depending on the animal it is to be used with and the requirement for stimulation.

[0016] The animal cover 1 comprises fabric additions 6 and 7 arranged at those regions where the spike mat or spike mats 3-5 is or are located, in order to place a load on the animal cover 1 and to press the spike mat or spike mats 3-5 against the animal. The fabric additions 6 and 7 are located and attached to the animal cover 1 on that side 2b of the animal cover 1 that faces away from the animal. The fabric additions 6 and 7 comprise a coarser fabric or similar material, or another type of material with an extended surface area that has weight.

[0017] The animal cover 1 comprises attachment arrangements 8 and 9 that place various parts of the animal cover 1 under tension such that the animal cover 1 will surround the body of the animal and be kept in place against the body of the animal. The attachment arrangements 8 and 9 make possible a contact that can be adjusted of the animal cover 1 against the body of the animal and a pressure that can be adjusted of the spike mats 3-5 against the body of the animal. Different animals demonstrate different sensitivities for external stimulation and any one animal can demonstrate different sensitivities on different occasions, and it is therefore an advantage to be able to adjust the force with which the trigger points of the animal can be stimulated.

[0018] A first set of attachment arrangements 8 is located such that the arrangements make it possible to place the animal cover 1 under tension at the shoulders of the animal. A second set of attachment arrangements 9 is located such that the arrangements make it possible to place the animal cover 1 under tension at the body of the animal, around its stomach

[0019] The material of the spike mats is, among other materials, textile and plastic, for example at least one of neoprene, TPE and EVA.

[0020] Each spike mat 3-5 comprises spikes 3a-5a of a plastic material. Plastic materials are easy to form, give a lightweight construction and are normally relatively easy to clean, something that is not unimportant when considering the care of animals.

[0021] Each spike mat 3-5 comprises a soft flexible layer 10-12, a padded layer of fabric or a material similar to fabric,

over which a number of spikes have been placed and to which the spikes are attached. This design ensures that the spike mat 3-5 is rather flexible, and this in turn ensures that the spike mat can be formed according to the shape of the body of the animal and come into close contact with the body of the animal, which in turn ensures good and even distribution of the pressure of the spikes against the body of the animal.

[0022] The animal cover 1 comprises an insulating or a warming, or an insulating and warming, layer 13 arranged between the piece of fabric 2 and the spike mat 5. The insulating or warming layer, or the insulating and warming layer, 13 comprises artificial fur fabric or a similar insulating material, or a unit, such as electrical circuits, that spreads heat or transfers heat. Such a layer 13 has been drawn in the drawings solely at the spike mat 3 that is placed over the lower back of the animal, but similar insulating or warming layers, or insulating and warming layers, may be located at spike mats placed at other positions.

[0023] The spike mats 3-5 of the animal cover are attached at the piece of fabric 2 or at the insulating layer, where this is available. It is appropriate that the spike mats 3-5 be attached in such a manner that they can be removed from the piece of fabric 2 or the insulating layer 13 for, for example, cleaning, in order subsequently to be attached to the piece of fabric 2 or the insulating layer 13. The attachment that allows it to be removed makes it possible also to exchange simply not only the piece of fabric 2 but also the spike mat or spike mats 3-5, depending on such factors as the weather, wind, animal, its size and its need of treatment.

[0024] Each spike mat 3-5 is attached, in a manner that allows it to be removed, to the piece of fabric 2 or the insulating layer 13 with the aid of fixing arrangements 14-20. The fixing arrangements 14-20 comprise a first part arranged at or constituting part of the piece of fabric 2 or insulating layer 13 and a second part arranged at or constituting part of the spike mat 3-5. The first part and the second part are caused to interact with each other in a manner that locks them together and that allows them to be subsequently separated. The first part and the second part each comprise one part of a hook-and-loop arrangement, a zip arrangement, a button arrangement, a snap-button arrangement or a similar construction. Such a fixing arrangement 14-20 is not shown in detail in the drawings since its design is not important for the invention, solely its function.

[0025] The animal cover 1 has been developed and tested for use on horses, and the locations of the spike mats 3-5 that are shown in the drawings are adapted to the musculature of a horse. An animal cover 1 according to this invention, however, can be used also on other animals. It may in this case be necessary to modify the animal cover 1 in order to fit the other animal and its musculature.

[0026] This description of the invention is not to be regarded as a limitation of the invention: it is to be interpreted based on the innovative concept that is given in the attached patent claims, and the invention is to be given a reasonable protective scope. Technical distinctive features and details that are described above may be freely combined as long as the desired design and function are obtained.

1. An animal cover comprising a piece of fabric with an extended surface area and at least one spike mat arranged and attached to one side of the piece of fabric that lies in contact with the animal, with the spikes of the spike mat facing in towards the animal.

2. The animal cover according to claim 1, where the spike mat is located in such a manner that the spike mat lies in

contact with the muscles of the back and the lower back of the animal when the animal cover lies on the animal.

3. The animal cover according to claim 2, where the active spikes of the spike mat are located in two regions arranged on each side of the spine of the animal, with a region that is free of spikes between them.

4. The animal cover according to claim 1, where the spike mat is located in such a manner that the spike mat will lie in contact with the shoulder muscles of the animal when the animal cover lies on the animal.

5. The animal cover according to claim 4, where the spike mat lies in contact with the shoulder muscles of the animal on one side.

6. The animal cover according to claim 1, comprising fabric additions arranged in the region at which the spike mat is present in order to place the animal cover under load and to press the spike mat against the animal.

7. The animal cover according to claim 6, where the fabric additions comprise a coarser fabric or similar material, or another type of material with an extended surface area that has weight.

8. The animal cover according to claim 6, where the fabric additions are arranged on the outer surface of the animal cover, the side of the animal cover that faces out away from the animal.

9. The animal cover according to claim 1, comprising attachment arrangements that place various parts of the animal cover under tension such that the animal cover will surround the body of the animal and which attachment arrangements make it possible to place the animal cover against the body of the animal in a manner that can be adjusted, and with adjustable pressure of the spike mat against the body of the animal.

10. The animal cover according to claim 1, where the spike mat comprises spikes of a plastic material.

11. The animal cover according to claim 1, where the spike mat comprises a soft, flexible layer over which a number of spikes are located and to which the spikes are attached.

12. The animal cover according to claim 1, comprising an insulating or a warming, or an insulating and warming, layer arranged between the piece of fabric and the spike mat.

13. The animal cover according to claim 12, where the insulating or warming layer, or the insulating and warming layer, comprises artificial fur fabric or a similar insulating material, or a unit that spreads heat.

14. The animal cover according to claim 1, where the spike mat is attached to the piece of fabric in a manner that allows it to be removed.

15. The animal cover according to claim 1, where the spike mat is attached to the piece of fabric with the aid of at least one attachment arrangement.

16. The animal cover according to claim 15, where the attachment arrangement comprises a first part arranged at or constituting a part of the piece of fabric and a second part arranged at or constituting a part of the spike mat and where the first part and the second part are caused to interact with each other in a manner that locks them together and allows them to be subsequently released.

17. The animal cover according to claim 16, where the first part and the second part of the attachment arrangement each comprise one part of a hook-and-loop arrangement, a button arrangement, a snap-button arrangement or a similar construction.

18. The animal cover according to claim 1, intended to be used on horses.

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