WEARABLE ANIMAL INFORMATION APPARATUS, SYSTEM, AND METHOD THEREOF

CROSS-REFERENCE TO RELATED PATENT APPLICATION

[0001] The present application claims the benefit of priority from U.S. Provisional Application Ser. No. 62/986,312, filed Mar. 6, 2020, the contents of which are hereby incorporated herein by reference in its entirety.

BACKGROUND

[0002] Pet collars are used for various reasons, such as to allow a pet to be constrained or controlled by a pet owner. As pet collars are regularly worn by a pet, identification of the pet wearing the pet collar may be provided. Such information may include the name of the pet, pet owner information, as well as other information related to the pet or pet owner. The information may be provided via non-electronic or electronic devices. Typically, however, non-electronic devices are limited in the amount of information that may be conveyed. Further, such devices are subject to degradation over time.

[0003] Electronic devices have been provided to overcome some of the deficiencies of the non-electronic tags. For example, electronic devices have been used to store information relating to a pet or a pet owner. Conventional electronic devices, however, are bulky and uncomfortable for the pet wearing the collar. Electronic devices that attach to a pet collar are difficult to attach to and/or detach from the collar worn by a pet. Thus, it is desired that a device be provided that is easy to attach to and/or detach from a pet collar, and that is less bulky and more comfortable for a pet to wear.

BRIEF SUMMARY

[0004] The present disclosure may be directed, in one aspect, to an attachment for a wearable collar of an animal. The attachment may include an electronic device comprising a processor configured to receive or transmit information relating to the animal. An attachment body may be configured to be detachably coupled to the collar worn by the animal. The attachment body may include a cavity housing the electronic device and an opening of the cavity. The opening may provide access to the electronic device housed in the cavity or retaining the electronic device within the cavity via an enclosure element. Each of a plurality of legs may have a connection element. The connection element may be configured to engage with another connection element to detachably couple the attachment body to the collar worn by the animal.

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] The present disclosure will become more fully understood from the detailed description and the accompanying drawings, wherein:

[0006] FIG. **1**A shows a perspective view of an example wearable pet collar in an open configuration, as described herein;

[0007] FIG. **1**B shows a perspective view of the example wearable pet collar of FIG. **1**A in a closed configuration, as described herein;

[0008] FIG. **1**C shows a perspective view of another example wearable pet collar in an open configuration, as described herein;

[0009] FIG. **1**D shows a perspective view of the example wearable pet collar of FIG. **1**C in a closed configuration, as described herein;

[0010] FIG. **2** shows an example electronic device, as described herein;

[0011] FIG. **3** shows an example system including the electronic device of FIG. **2**, as described herein;

[0012] FIGS. **4**A, **4**B show an example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0013] FIGS. **5**A, **5**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0014] FIGS. **6**A, **6**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0015] FIGS. **7**A, **7**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0016] FIGS. **8**A, **8**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0017] FIGS. **9**A, **9**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0018] FIGS. **10**A, **10**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0019] FIGS. **11**A, **11**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0020] FIGS. **12**A, **12**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0021] FIGS. **13**A, **13**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0022] FIGS. **14**A, **14**B show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0023] FIGS. **15**A, **15**B, **15**C show another example attachment having an electronic device and configured to couple with a wearable collar, as described herein;

[0024] FIG. **16** shows an example wearable collar configured to house an electronic device, as described herein;

[0025] FIGS. **17**A, **17**B, **17**C show an example wearable collar configured to house an electronic device, as described herein;

[0026] FIGS. **18**A, **18**B show an example wearable collar configured to house an electronic device, as described herein;

[0027] FIGS. **19**A, **19**B show an example wearable collar configured to house an electronic device, as described herein;

[0028] FIGS. **20**A, **20**B, **20**C show an example wearable collar configured to house an electronic device, as described herein;

[0029] FIG. **21** shows an example attachment having an electronic device and configured to couple with a wearable collar, as described herein;