MULTI-WATCH BAND WITH A CLASP

In some embodiments, the clasp in each of the first portion and the second portion connects directly to the second watch.

ABSTRACT
A watch band capable of holding at least two watches is provided. The watch band includes a first portion and a second portion and a clasp in at least one of the first portion and the second portion where a first watch and a second watch can be positioned opposite of each other by the first portion and the second portion. In some embodiments, each of the first portion and the second portion includes a clasp. In some embodiments, the clasp in each of the first portion and the second portion connects directly to the second watch.
MULTI-WATCH BAND WITH A CLASP

CROSS REFERENCE TO RELATED APPLICATIONS

[0001] This application claims priority to U.S. Provisional Patent Application Ser. No. 62/082,289 filed on Nov. 20, 2014, which is incorporated herein by reference in its entirety.

TECHNICAL FIELD

[0002] Embodiments of the present invention are related to watch bands, and more particularly watch bands capable of attaching to multiple watches simultaneously with a clasp.

DISCUSSION OF RELATED ART

[0003] The projection of new digital watches that have a high degree of functionality will present owners of fine watches with a quandary: whether to wear the high value fine watch or to wear the highly functional digital watch. The highly functional digital watch, for example the Apple Watch from Apple, which has functionality similar to smart phones. Wearers of the highly functional digital watches will enjoy the functionality of a smart phone on their wrist. On the other hand, individuals who are watch enthusiasts may have other watches, such as high value mechanical watches, to wear as a fashion statement.

[0004] As such a watch band capable of attaching to multiple watches would be desirable.

SUMMARY

[0005] In accordance with some embodiments, a watch band capable of holding at least two watches is provided. The watch band includes a first portion and a second portion and a clasp in at least one of the first portion and the second portion where a first watch and a second watch can be positioned opposite of each other by the first portion and the second portion. In some embodiments, each of the first portion and the second portion includes a clasp. In some embodiments, the clasp in each of the first portion and the second portion connects directly to the second watch.

[0006] These and other embodiments are further discussed below with respect to the following figures.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] FIG. 1 illustrates a watch band according to some embodiments of the present invention.

[0008] FIGS. 2A and 2B illustrate an example of the watch band of FIG. 1 with example watches being worn on an user's wrist in a first manner.

[0009] FIGS. 3A and 3B illustrate an example of the watch band of FIG. 1 with example watches being worn on a user's wrist in a second exemplary manner.

[0010] FIGS. 4A and 4B illustrate an example watch band according to some embodiments in a circularly linked configuration displaying the face of a first watch and the back of a second watch.

[0011] FIGS. 5A and 5B illustrate an example watch band in an unlinked configuration.

[0012] FIGS. 6A and 6B illustrate an example watch band with a clasp in an unlinked configuration.

[0013] FIGS. 7A and 7B illustrates an example watch band with an integrated mount for a watch.

[0014] FIGS. 8A and 8B illustrate an example watch band with a watch mount with connectors.

[0015] FIGS. 9A and 9B illustrate an example of a watch band with a dual clasp.

[0016] FIGS. 10A and 10B illustrate an example of a watch band with a dual clasp decoupled from a watch.

[0017] FIGS. 11A through 11D illustrate several stages of operation of an example clasp in a watch band according to some embodiments.

[0018] FIGS. 12A through 12H illustrate an example of a safety catch for a clasp on a watch band according to some embodiments.

[0019] FIGS. 13A and 13B illustrates an example of a watch band with multiple devices.

[0020] FIGS. 14A and 14B illustrate another example of a watch band with multiple devices.

DETAILED DESCRIPTION

[0021] In the following description, specific details are set forth describing some embodiments consistent with the present disclosure. It will be apparent, however, to one skilled in the art that some embodiments may be practiced without some or all of these specific details. The specific embodiments disclosed herein are meant to be illustrative but not limiting. One skilled in the art may realize other elements that, although not specifically described here, are within the scope and spirit of this disclosure.

[0022] This description and the accompanying drawings illustrate various embodiments and aspects of the embodiments should not be taken as limiting—the claims define the protected invention. Various mechanical, compositional, structural, and operational changes may be made without departing from the spirit and scope of this description and the claims. In some instances, well-known structures and techniques have not been shown or described in detail in order not to obscure the invention.

[0023] Additionally, the drawings are not to scale. Relative sizes of components are for illustrative purposes only and do not reflect the actual sizes that may occur in any actual embodiment. Like numbers in two or more figures represent the same or similar elements.

[0024] The singular forms “a”, “an”, and “the” are intended to include the plural forms as well, unless the context indicates otherwise. And, the terms “comprises”, “comprising”, “includes”, and the like specify the presence of stated features, steps, operations, elements, and/or components but do not preclude the presence or addition of one or more other features, steps, operations, elements, components, and/or groups. Components described as coupled may be electrically or mechanically directly coupled, or they may be indirectly coupled via one or more intermediate components.

[0025] Elements and their associated aspects that are described in detail with reference to one embodiment may, whenever practical, be included in other embodiments in which they are not specifically shown or described. For example, if an element is described in detail with reference to one embodiment and is not described with reference to a second embodiment, the element may nevertheless be claimed as included in the second embodiment.

[0026] FIG. 1 illustrates an example of a watch band 100 according to some embodiments of the present invention. As shown in FIG. 1, watch band 100 includes a first section 102 and a second section 104. As shown in FIG. 1, watch band 100 couples a watch 106 with a watch 108 where first section 102...
and second section 104 couple watch 106 and watch 108 into a single wearable watchband with two watches. Watch 106 and watch 108 can be any pair of watches. However, watch band 100 can be used to mount a decorative watch, watch 106, with a highly functional smart digital watch, watch 108. For example, for those that do not wish to abandon wearing of an expensive high-end watch but would also like the functionality of a smart digital watch, watch 106 can be a high end watch and watch 108 can be a smart digital watch.

[0027] As shown in FIG. 1, sections 102 and 104 can include connectors to mate with watches 106 and 108. The example shown in FIG. 1 is a standard pin type, or spring bar, connection so that section 102 couples to watch 106 with connector 112 and to watch 108 with connector 111 while section 104 couples to watch 106 with connector 116 and couples to watch 108 with connector 114. As is further discussed below, other connections can be made. Further, in some embodiments section 102 and 104 can be formed in a single piece with a holder for watch 108 formed in the now single piece band. Additionally, in some embodiments a clasp may be formed in section 102 or section 104. Band 100 can be formed of any material capable of holding watch 106 and watch 108. For example, band 100 can be formed as an expansion bracelet, can be formed of leather, simulated hides, metal, precious metals, cloth, fabric, nylon, rubber plastic, composite materials or other material. Band 100 can be formed to various designs and patterns and can be formed of combinations of materials.

[0028] FIGS. 2A and 2B illustrate one way of wearing band 100 while FIGS. 3A and 3B show another way of wearing band 100. In some examples, band 100 may be configured such that watch 106 is on the opposite side of the band from watch 108. In some examples, the links of band 100 on either side of watches 106 and 108 may be of equal length and/or are symmetrical such that watches 106 and 108 are on opposite sides of the band. In some examples, band 100 may be configured such that watch 108 is placed on the outer wrist while watch 106 is placed on the inner wrist when worn. In some examples, the links of band 100 on either side of watches 106 and 108 may be of different length and/or are asymmetrical, such that the watches are not placed on the opposite sides of the band. For example, band 100 may be configured such that when watch 108 is placed on the outer wrist, watch 106 may be placed on the side of the wrist. In some examples, band 100 may be configured to connect additional watches.

[0029] FIGS. 4A and 4B further illustrate band 100 with watches 106 and 108 in place. FIG. 4A illustrates the perspective towards watch 106 while FIG. 4B illustrates the perspective of band 100 from watch 108.

[0030] FIGS. 5A and 5B illustrate a watch band 100 with a first watch 106 and a second watch 108. FIG. 5A illustrates a plan view while FIG. 5B illustrates a side view of watch band 100. Watch band 100 may include band portions 102 and 104 that are coupled between watches. In some embodiments, there may be multiple portions separating any number of watches and sensor devices in a watch band according to some embodiments.

[0031] FIGS. 6A and 6B illustrate an example where section 104 includes a clasp formed by first clasp 602 and second clasp 604. The clasp can be any clasp, including, but not limited to, box with tongue clasps—with or without a safety feature, a buckle, deployment buckle or invisible double locking clasp, deployment buckle with push button, fold-over clasp, fold-over clasp with safety, fold-over clasp with push button, push button or double locking fold-over clasp, jewelry clasp, jewelry clasp with push button, lobster claw or hook buckle clasp, toggle clasp, buckle, bangle bracelet, toggle clasp or any other type of clasp.

[0032] FIGS. 7A, 7B, 8A, and 8B illustrate example bands with a mount 700 that holds watch 108 onto band 100. Watch mount 700 for watch 108 illustrated in FIGS. 7A, 7B, 8A and 8B is a circular mount, but other mounts such as square mount or sliding C-type mounts can be used. In some cases, watch 108 may be held within mount 700. In some examples, as shown in FIGS. 8A and 8B, mount 700 may include connectors 714 and 716 for coupling with strap sections 702 and 704. In some examples, as shown in FIGS. 7A and 7B, mount 700 may be incorporated between bands 702 and 704 without connectors.

[0033] Mount 500 also includes an opening 706 through which watch 108 is inserted. In some examples, mount 700 may restrain watch 108 in opening 706 frictionally.

[0034] FIGS. 9A and 9B illustrate an example band 100 with two clasps 902, one incorporated in each of band portions 102 and 104. In some examples, clasps 902 may fold inward to restrain watch band 100 on a user wrist. As shown in FIG. 9B, band portions 102 and 104 may include a retainer 904 that can be used to retain clasps 902 in a closed position. In some examples, retainer 904 may be a safety clasp.

[0035] FIGS. 10A and 10B illustrate another example of two clasps 902 connected to a connector 1002 to watch 108. As shown, connector 1102 may allow watch 108 to snap into place with clasp 902 connect watch 108 to watch band 100 with a ball and insert connection.

[0036] FIGS. 11A, 11B, 11C, and 11D illustrate opening of a clasp such as that shown in FIGS. 9A and 9B where clasps 902 couple directly to watch 108. As shown in FIG. 11A, clasps 902 are closed and are retained closed by retainers 904. In some examples, clasps 902 may be hidden underneath retainers 904 and/or band 100. As shown in FIG. 11B, retainers 904 may be released while clasps 902 remain closed. In some examples, band 100 may include a safety mechanism over retainers 904 from preventing accidental unclipping of the watch band. As shown in FIG. 11C, clasps 902 are partially open and may fold out, increasing the diameter of band 100. As shown in FIG. 11D, clasps 902 are fully open and unfolded allowing for additional length to band 100. The embodiment of clasps 902 illustrated in FIGS. 11A, 11B, 11C and 11D connect directly to watch 108. The connection can be made in any way.

[0037] FIGS. 12A through 12I illustrate an example band 100 with clasps 902 and safety mechanisms 1201 for clasps 902. In the particular example of clasps 902 illustrated in FIGS. 12A through 12H, clasp 902 on each side of band 101 can be referred to as a butterfly clasp. FIGS. 12A through 12D illustrate band 100 at various points of operation. FIGS. 12E through 12H illustrate a rotated view of band 100 at the various points of operation illustrated in FIGS. 12A through 12D.

[0038] As shown in FIGS. 12A and 12E, clasp 902 is closed and safety mechanism 1202 is closed. As is illustrated, safety mechanism 1202 may aid in maintaining clasp 902 in a closed position. In some examples, safety mechanism 1202 may function as an additional clasps over retainer 904 to help keep clasp 902 closed.

[0039] As shown in FIGS. 12B and 12F, safety mechanism 1201 may open to release clasp 902, such that clasp 902 may open. Clasp 902 may still maintain a closed position and be
retained by retainer 904. In some embodiments, retainer 904 may not retain clasp 902 in a closed position when mechanism 1201 is in an opened state.

As shown in FIGS. 12C and 12G, wrist band 100 has safety mechanism 1201 in an open state and clasp 902 in a partially opened state. As such, clasp 902, when opened, may increase the length of band 100. FIGS. 12D and 12H illustrate wrist band 100 with safety mechanism 1201 in an open state and clasp 902 in a fully open state.

In some examples, safety mechanism 1201 may be attached to clasp 902 on the opposite side of retainer 904. In some examples, safety mechanism 1202 may be placed on the same side of clasp 902 as retainer 904. In some examples, wrist band 100 may have safety clasp 1201 without retainer 904, such that clasp 902 is not held in place when safety mechanism 1202 is open.

Some embodiments may include multiple watches and/or sensors on watch band 100. As an example, FIGS. 13A and 13B illustrate a front and side view, respectively, of an embodiment that includes watches 106 and 108 and additionally includes a third watch or sensor device 1302 coupled between watch band portion 104 and watch band portion 1304. FIGS. 14A and 14B illustrate front and side views of an example with an additional device 1402 that is coupled between watch band portion 1304 and watch band portion 1404. In practice, any number of devices 1302 and 1402 can be included in a watch band 100 according to some embodiments of the present invention. As a consequence, clasps such as clasp 902 described above can be placed in any of the watches and portions 102, 104, 1304, and 1404. In practice, any number of clasps 902 can be inserted into the watch band portions between mounted devices.

In the preceding specification, various embodiments have been described with reference to the accompanying drawings. It will, however, be evident that various modifications and changes may be made thereto, and additional embodiments may be implemented, without departing from the broader scope of the invention as set forth in the claims that follow. The specification and drawings are accordingly to be regarded in an illustrative rather than restrictive sense.

What is claimed is:

1. A wrist band, comprising:
   a first portion;
   a second portion; and
   a clasp in at least one of the first portion or the second portion,
   wherein the first portion and the second portion are coupled to hold a first watch and a second watch in place.

2. The wrist band of claim 1, wherein each of the first portion and the second portion includes a clasp.

3. The wrist band of claim 2, further including a retainer to hold the clasp in a closed position.

4. The wrist band of claim 3, wherein the clasp in each of the first portion and the second portion directly connects to the second watch.

5. The wrist band of claim 4, wherein the clasp in each of the first portion and second portion frictionally connect to the second watch.

6. The wrist band of claim 3, wherein the first portion, second portion, and each clasp are configured to place the second watch on the inner wrist when the first watch is placed on the outer wrist of a wearer.

7. A wrist band, comprising:
   a first mount configured to hold a first watch; and
   a second mount configured to hold a second watch.

8. The wrist band of claim 7, wherein the first mount is a circular mount.

9. The wrist band of claim 7, wherein the first mount is a square mount.

10. The wrist band of claim 7 wherein the first mount is a sliding C-type mount.

11. The wrist band of claim 7, wherein the first mount is a different mount type than the second mount.

12. The wrist band of claim 7, further comprising a first connector that connects a first side of the first mount to a first portion of the wrist band and a second connector that connects a second side of the first mount to a second portion of the wrist band.

13. The wrist band of claim 12 wherein the first portion of the wrist band is connected to a first clasp and the second portion of the wrist band is connected to a second clasp.

14. The wrist band of claim 13, wherein the first and second clasps are connected to the second mount.

15. The wrist band of claim 13, wherein the first and second clasps are fractionally connected to the second mount.

16. A wrist band, comprising:
   a first portion;
   a second portion;
   a first clasp connected to the first portion;
   a second clasp connected to the second portion;
   the first and second portions configured to connect to a first watch; and
   the first and second clasps configured to connect to a second watch.

17. The wrist band of claim 16, wherein the first and second clasps are configured to retain to the second watch fractionally.

18. The wrist band of claim 16, wherein the wherein the first portion, second portion, first clasp, and second clasp are configured to place the second watch on the inner wrist of a user when the first watch is placed on the outer wrist.

19. The wrist band of claim 16, wherein the first and second clasp change the length of the wrist band.

20. The wrist band of claim 16, wherein the first portion comprises a retainer to retain the first clasp in a closed position.

21. The wrist band of claim 16, wherein the first watch is a smart watch and the second watch is a mechanical watch.

22. The wrist band of claim 16, wherein the first watch is smaller than the second watch.

23. The wrist band on claim 16, wherein the first and second portion are formed as an expansion bracelet.