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(12) Utility Model Patent

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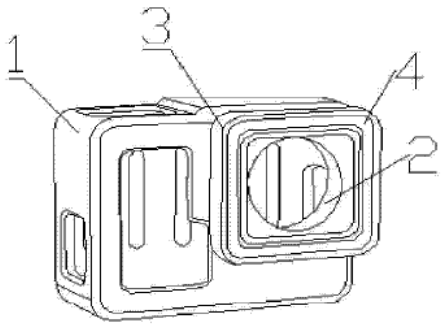
Claims (1 page) Description (4 pages) Drawings (3 pages)

(54) Title

GORPO sport camera heat dissipation protection housing provided with push-pull rear cover

(57) Abstract

The utility model discloses a GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover. The GORPO sport camera heat dissipation protection housing comprises a metal front housing, the front side of which is sequentially provided with a lens holder, a lens frame, and a lens. The back surface of the metal front housing is provided with an opening structure, and the rear side of the metal front housing is provided with a push-pull metal rear cover. The utility model aims to provide the GOPRO sport camera heat dissipation protection housing which is advantageous in that the GOPRO sport camera lens can be protected comprehensively, the push-pull metal rear cover can well protect the back part of the GORPO camera, the heat dissipation effect is good, and the assembly is simple and convenient.



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Claims

1. A GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover, comprising a metal front housing, the front side of which being sequentially provided with a lens holder, a lens frame, and a lens, the back surface of the metal front housing being provided with an opening structure, and the rear side of the metal front housing being provided with a push-pull metal rear cover.

2. The GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover according to claim 1, wherein the upper and lower borders on the back surface of the metal front housing are provided with horizontal guide rails.

3. The GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover according to claim 1 or 2, wherein the upper and lower borders of the metal rear cover are matched with the horizontal guide rails arranged on the upper and lower borders on the back surface of the metal front housing to be pushed and pulled.

4. The GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover according to claim 3, wherein the outer side walls of the upper and lower borders of the metal rear cover close to a handle position are provided with protrusions.

5. The GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover according to claim 4, wherein grooves that are matched and clamped with the protrusions are formed in the corresponding positions within the horizontal guide rails arranged on the upper and lower borders on the back surface of the metal front housing.

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GORPO Sport Camera Heat Dissipation Protection Housing Provided with Push-pull Rear Cover

Technical Field

[0001] The utility model relates to a camera protection housing, and in particular relates to a GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover.

Background

[0002] The current popularity of outdoor sports has driven the bloom of the sport camera industry. GOPRO sport cameras are currently the best-selling in the market. In the case of long-term shooting, a camera is prone to overheating. The current borders and waterproof housings cannot solve the problem. Moreover, the protection is not comprehensive enough for a camera, the lens and back part of which lack protection.

Summary

[0003] The technical problem to be solved by the utility model is to provide a GORPO sport camera heat dissipation protection housing which is advantageous in that the GOPRO sport camera lens can be protected comprehensively, a push-pull metal rear cover is provided and can well protect the back part of the GORPO camera, the heat dissipation effect is good, and the assembly is simple and convenient.

[0004] To achieve the above objective, the utility model provides a GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover. The GORPO sport camera heat dissipation protection housing includes a metal front housing, the front side of which is sequentially provided with a lens holder, a lens frame, and a lens. The back surface of the metal front housing is provided with an opening structure, and the rear side of the metal front housing is provided with a push-pull metal rear cover.

[0005] The upper and lower borders on the back surface of the metal front housing are provided with horizontal guide rails.

[0006] The upper and lower borders of the metal rear cover are matched with the horizontal guide rails arranged on the upper and lower borders on the back surface of the metal front housing to be pushed and pulled.

[0007] The outer side walls of the upper and lower borders of the metal rear cover close to a handle position are provided with protrusions.

[0008] Grooves that are matched and clamped with the protrusions are formed in the corresponding positions within the horizontal guide rails arranged on the upper and lower borders on the back surface of the metal front housing.

[0009] Compared with the prior art, the GORPO sport camera heat dissipation

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protection housing provided with a push-pull rear cover as described in the utility model achieves the following technical effects:

[0010] 1. A lens protection frame and a lens are provided, which provide more comprehensive protection for the lens.

[0011] 2. A metal push-pull rear cover is provided, which can provide good protection and heat dissipation for the back part of the GORPO camera.

[0012] 3. The assembly is easy and convenient, which can be archived by simply placing the camera in the front housing and then inserting the rear cover.

[0013] The utility model will be further described below in conjunction with the accompanying drawings.

Brief Description of Drawings

[0014] FIG. 1 is a schematic structural diagram of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0015] FIG. 2 is a front view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0016] FIG. 3 is a top view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0017] FIG. 4 is a left view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0018] FIG. 5 is a right view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0019] FIG. 6 is a bottom view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0020] FIG. 7 is a rear view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0021] FIG. 8 is a structural exploded view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

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[0022] FIG. 9 is an assembly schematic diagram of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0023] FIG. 10 is an installation exploded view of the GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover as described in the utility model.

[0024] Explanation of Symbols: 1-Metal front housing; 2-Lens holder; 3-Lens frame; 4-Lens; 5-GOPRO sport camera; 6-Metal rear cover.

Detailed Description

[0025] The following will provide a more detailed explanation of the above and other technical features and advantages of the utility model, in conjunction with the accompanying drawings and embodiments.

[0026] In an embodiment, as shown in FIG. 1 and FIG. 8, the utility model provides a GORPO sport camera heat dissipation protection housing provided with a push-pull rear cover. The GORPO sport camera heat dissipation protection housing includes a metal front housing 1, the front side of which is sequentially provided with a lens holder 2, a lens frame 3, and a lens 4. The back surface of the metal front housing 1 is provided with an opening structure, and the rear side of the metal front housing 1 is provided with a push-pull metal rear cover 6.

[0027] The upper and lower borders on the back surface of the metal front housing 1 are provided with horizontal guide rails. The upper and lower borders of the metal rear cover 6 are matched with the horizontal guide rails arranged on the upper and lower borders on the back surface of the metal front housing 1 to be pushed and pulled. The outer side walls of the upper and lower borders of the metal rear cover 6 close to a handle position are provided with protrusions. Grooves that are matched and clamped with the protrusions are formed in the corresponding positions within the horizontal guide rails arranged on the upper and lower borders on the back surface of the metal front housing 1.

[0028] When in use, as shown in FIG. 9 and FIG. 10, the lens holder 2, the lens frame 3, and the lens 4 are installed sequentially in the corresponding positions on the front side of the metal front housing, or assembled in advance. Then, the GOPRO sport camera 5 is placed in the correct position through the opening on the back surface of the metal front housing 1, and finally the metal rear cover 6 is gently inserted along the horizontal guide rails on the back surface of the metal front housing 1. When a click is heard, it indicates that the protrusions of the metal rear cover 6 are matched and clamped with the grooves in the guide rails of the metal front housing 1, and the assembly is completed.

[0029] The above embodiment is only a description of a preferred embodiment of the utility model, and do not limit the scope of the utility model. Without departing from the design spirit of the utility model, all variations and improvements made by those of ordinary skill in the art to the technical solution of the utility model should

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fall within the scope of protection determined by the claims of the utility model.

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Drawings

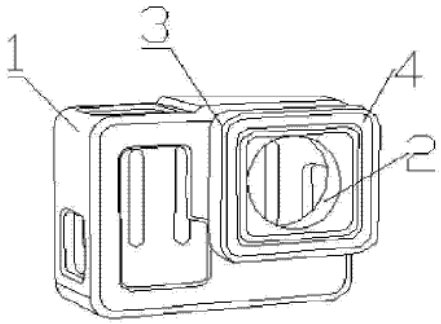

FIG. 1

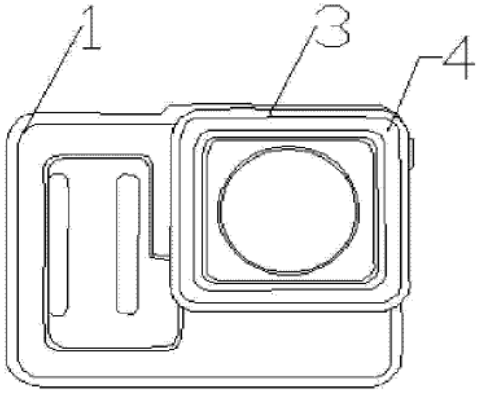

FIG. 2

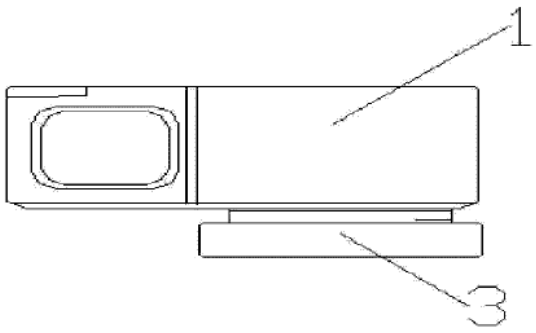

FIG. 3

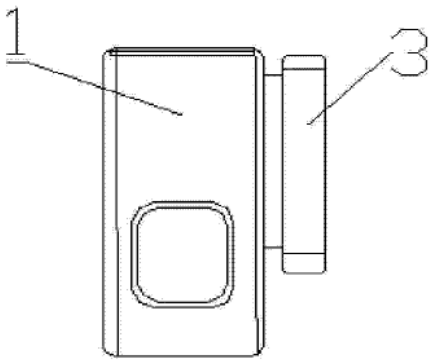

FIG. 4

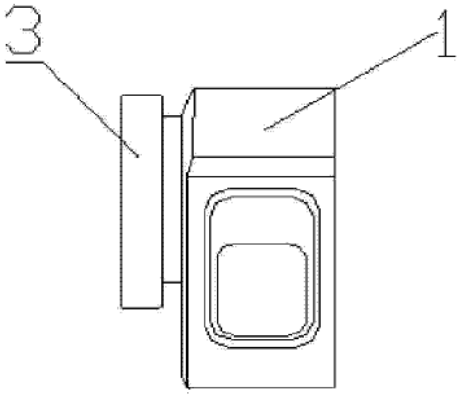

FIG. 5

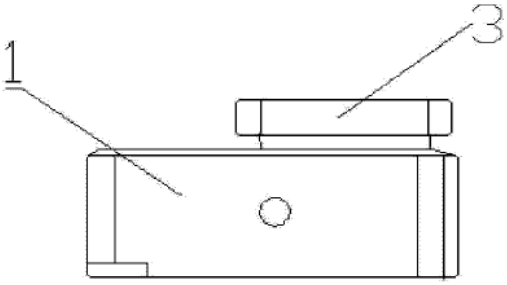

FIG. 6

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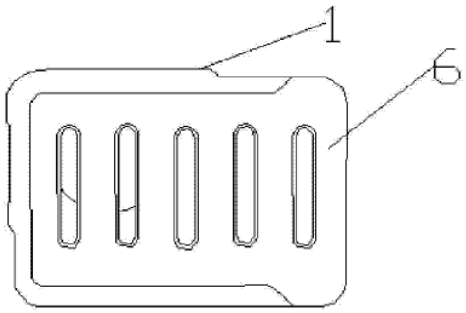

FIG. 7

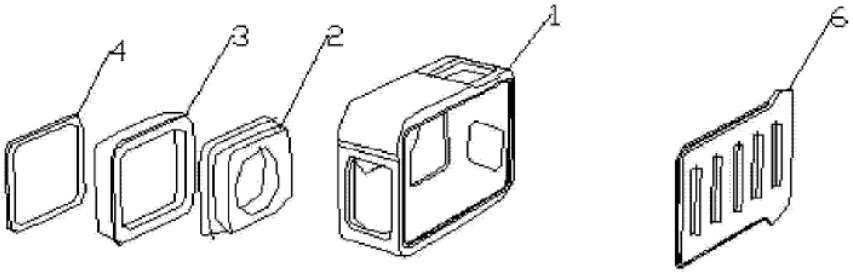

FIG. 8

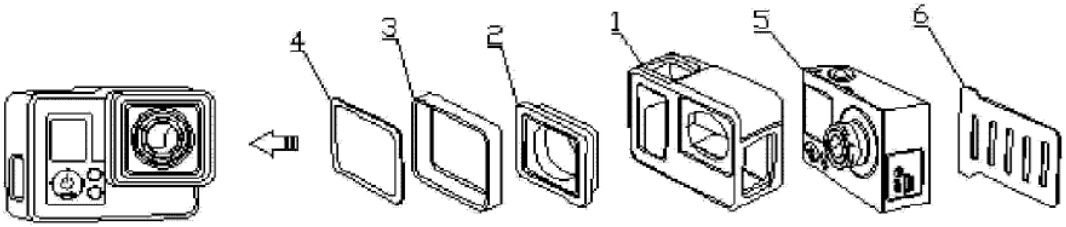

FIG. 9

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Drawings

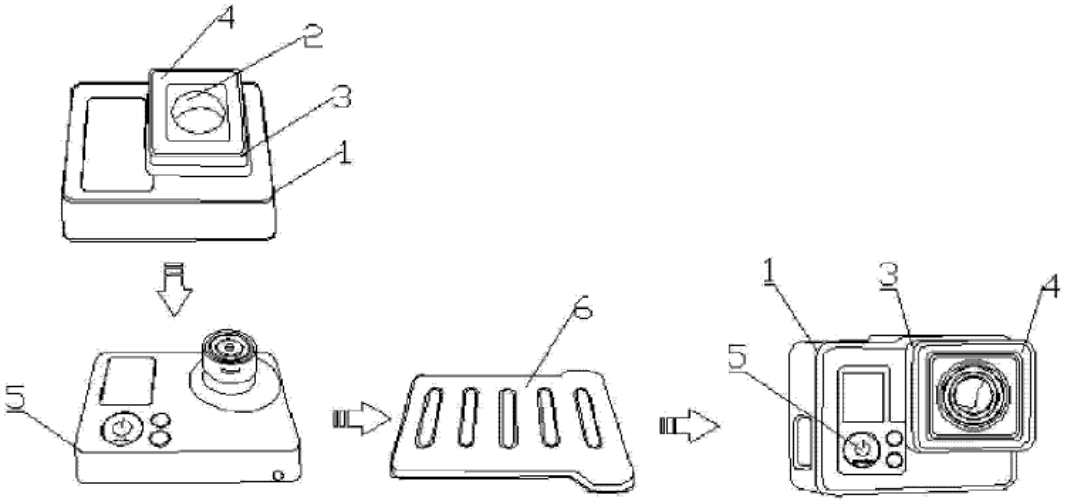

FIG. 10

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