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Sports Hydration Method

Abstract

The disclosure, aka HydroPiece in the only product of its kind that channels water through a primary tube then directly through a face guard to ensure athletes have quick and easy access to water, when needed, effectively eliminating the task of having to remove play equipment in order to address thirst or dehydration. This unprecedented product is uniquely designed with a simple filter that catches small debris from compromising the water and employs durable materials to ensure long-term sustainability during utilization. The disclosed hydration device includes a mouthpiece comprising a connecting opening, a head comprising a channel opening and sides each defining a clip chamber and a tube having a first end configured to connect to the mouthpiece connecting opening and a second end configured to connect to the head channel opening.

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Background/Summary

BACKGROUND

[0001] Many football athletes often complain that they have trouble drinking water while wearing traditional face guards and mouthpieces. The effort and time it takes to completely take off the equipment during huddles wastes time that could be better spent hydrating, resting and/or planning for the next play. There have been no products available as original equipment or as an aftermarket to address this problem.

[0002] An apparatus that assists football athletes to drink water while wearing traditional face guards and mouthpieces with ease is not being met by any known device or system at present. There have been no products available as original equipment or as an aftermarket to address this problem either.

SUMMARY OF THE INVENTION

[0003] The main purpose of the Sports Hydration Device is to provide users with a new and improved mouthpiece that features a tube which connects to the face guard of a football helmet permitting easy hydration.

[0004] The disclosed hydration device includes a mouthpiece comprising a connecting opening, a head comprising a channel opening and sides each defining a clip chamber and a tube having a first end configured to connect to the mouthpiece connecting opening and a second end configured to connect to the head channel opening.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] FIG. **1** is a top perspective view of the sports hydration device for the method in accordance with an embodiment of the present disclosure.

[0006] FIG. **2** is a front end view of the sports hydration device for the method in accordance with an embodiment of the present disclosure.

[0007] FIG. **3** is a back end view of the sports hydration device for the method in accordance with an embodiment of the present disclosure.

[0008] Throughout the description, similar reference numbers may be used to identify similar elements depicted in multiple embodiments. Although specific embodiments of the invention have been described and illustrated, the invention is not to be limited to the specific forms or arrangements of parts so described and illustrated. The scope of the invention is to be defined by the claims appended hereto and their equivalents.

DETAILED DESCRIPTION

[0009] Reference will now be made to exemplary embodiments illustrated in the drawings and specific language will be used herein to describe the same. It will nevertheless be understood that no limitation of the scope of the disclosure is thereby intended. Alterations and further modifications of the inventive features illustrated herein and additional applications of the principles of the inventions as illustrated herein, which would occur to one skilled in the relevant art and having possession of this disclosure, are to be considered within the scope of the invention.

[0010] FIG. **1** is a top perspective view of the sports hydration device for the method showing: hydro-piece (mouthpiece) referenced as A, tube referenced as B, clip-on chamber with water filter referenced as C, water inlet referenced as D in accordance with an embodiment of the present disclosure.

[0011] FIG. **2** is a front end view of the sports hydration device for the method in accordance with an embodiment of the present disclosure. The mouthpiece A and the inlet D are depicted from the front end view.

[0012] FIG. **3** is a back end view of the sports hydration device for the method in accordance with an embodiment of the present disclosure. The mouthpiece A is depicted and a filter in the

mouthpiece A is shown.
[0013] The present disclosed sports hydration method, also known as “The HydroPiece”, offers a modern accessory that provides an easy and efficient way to hydrate through a faceguard; thereby, allowing for an improved hydrating experience for active players. The novel design of the HydroPiece transports water via a clip-on chamber down a tube which includes a filter preventing small objects from passing through while safely supplying quality drinking water to athletes. Once the water has been channeled through the tube and filter, athletes will be able to hydrate without dealing with the inconvenience of taking off their helmets, face guards, and/or mouthpieces, to obtain the same result. This innovative, top-quality products enhances the functionality of any average mouthpiece and it serves to benefit all athletes; thus, the HydroPiece may prove to be essential in the sport/fitness industry.
[0014] Although the operations of the method(s) herein are shown and described in a particular order, the order of the operations of each method may be altered so that certain operations may be performed in an inverse order or so that certain operations may be performed, at least in part, concurrently with other operations. In another embodiment, instructions or sub-operations of distinct operations may be implemented in an intermittent and/or alternating manner.

Claims

1. A hydration device comprising: a mouthpiece comprising a connecting opening; a head comprising a channel opening and sides each defining a clip chamber; and a tube having a first end configured to connect to the mouthpiece connecting opening and a second end configured to connect to the head channel opening.
2. The hydration device of claim 1, further comprising a filter in the channel opening to filter a fluid passing through the channel opening to the tube.
3. The hydration device of claim 1, wherein the connecting opening and the tube first end comprise complementary helical threads.
4. The hydration device of claim 1, wherein the channel opening and the tube second end comprise complementary helical threads.
5. The hydration device of claim 1, wherein the clip chambers are configured to clip onto a face guard of a football helmet.
6. the hydration device of claim 1, wherein the connecting opening and the tube first end compromise a complementary friction fit annular connection.
7. The hydration device of claim 1, wherein the channel opening and the tube second end comprise a complementary friction fit annular connection.
8. The hydration device of claim 1, wherein the head sides each defining a clip chamber comprise two non-adjacent sides of the head.
9. The hydration device of claim 1, wherein the head comprises a block shape having chamfered corners.
10. The hydration device of claim 1, wherein the channel opening comprises a water inlet orifice comprising decreasing diameter annular grooves.
11. The hydration device of claim 1, wherein the clip chambers are configured to receive a football guard orthogonally to the tube.
12. The hydration device of claim 1, wherein a passage of water from the channel opening through the tube and into the mouthpiece is hermetic.
13. The hydration device of claim 1, wherein the tube extends orthogonally to a tangent of a front of the mouthpiece.
14. The hydration device of claim 1, wherein a filter in the channel opening comprises radial fins configured to strengthen the filter.
15. The hydration device of claim 1, wherein the clip chambers are configured to receive a rolled

edge of a drinking cup.

16. The hydration device of claim 1, wherein the clip chambers each comprise a cylindrical void parallel with a lateral side of the head.