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(54) **PUNCHING-TRAINING DEVICE**

(71) Applicant: **Pang Mei Sport Co., Ltd.**, Changhua County (TW)

(72) Inventor: **CHIH-LUNG CHEN**, Changhua County (TW)

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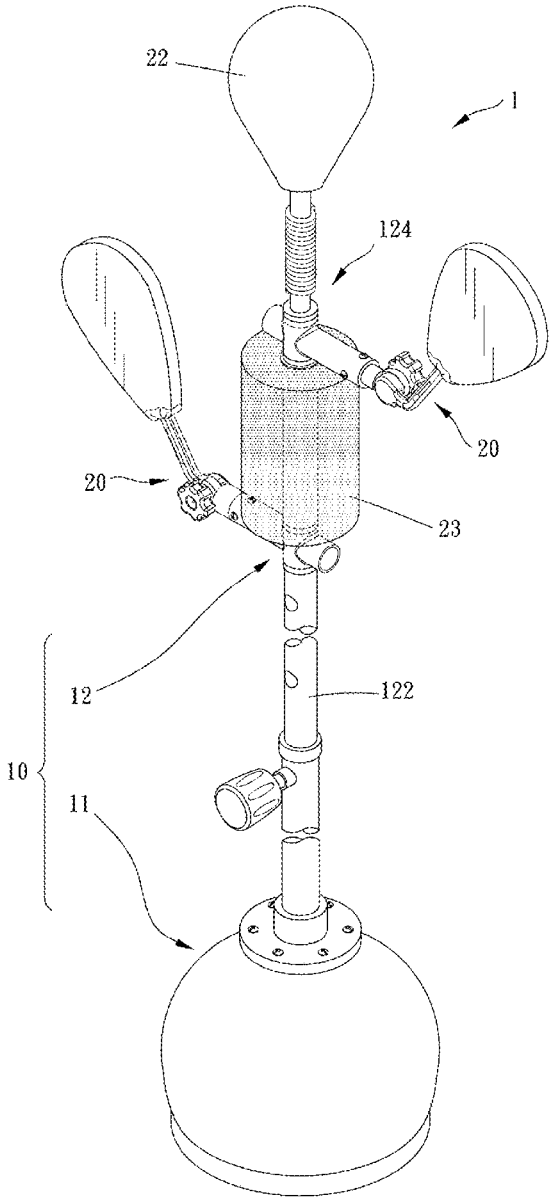
(57) **ABSTRACT**

A punching-training device includes a support body, having a seat end and an assembling end; a punching mechanism, including a plurality of punched members which are freely rotatable and separately mounted to the assembling end; wherein the assembling end includes small diameter shafts on which the punched members are rotatably mounted and are smaller than the seat end; the assembling end further includes a supporting rod, at least one interposed member and a stop portion, a first one of the small diameter shafts is connected between the supporting rod and the at least one interposed member, a second one of the small diameter shafts is arranged at an end of the at least one interposed member, and the stop portion is detachably connected at an end of the second one of the small diameter shafts.



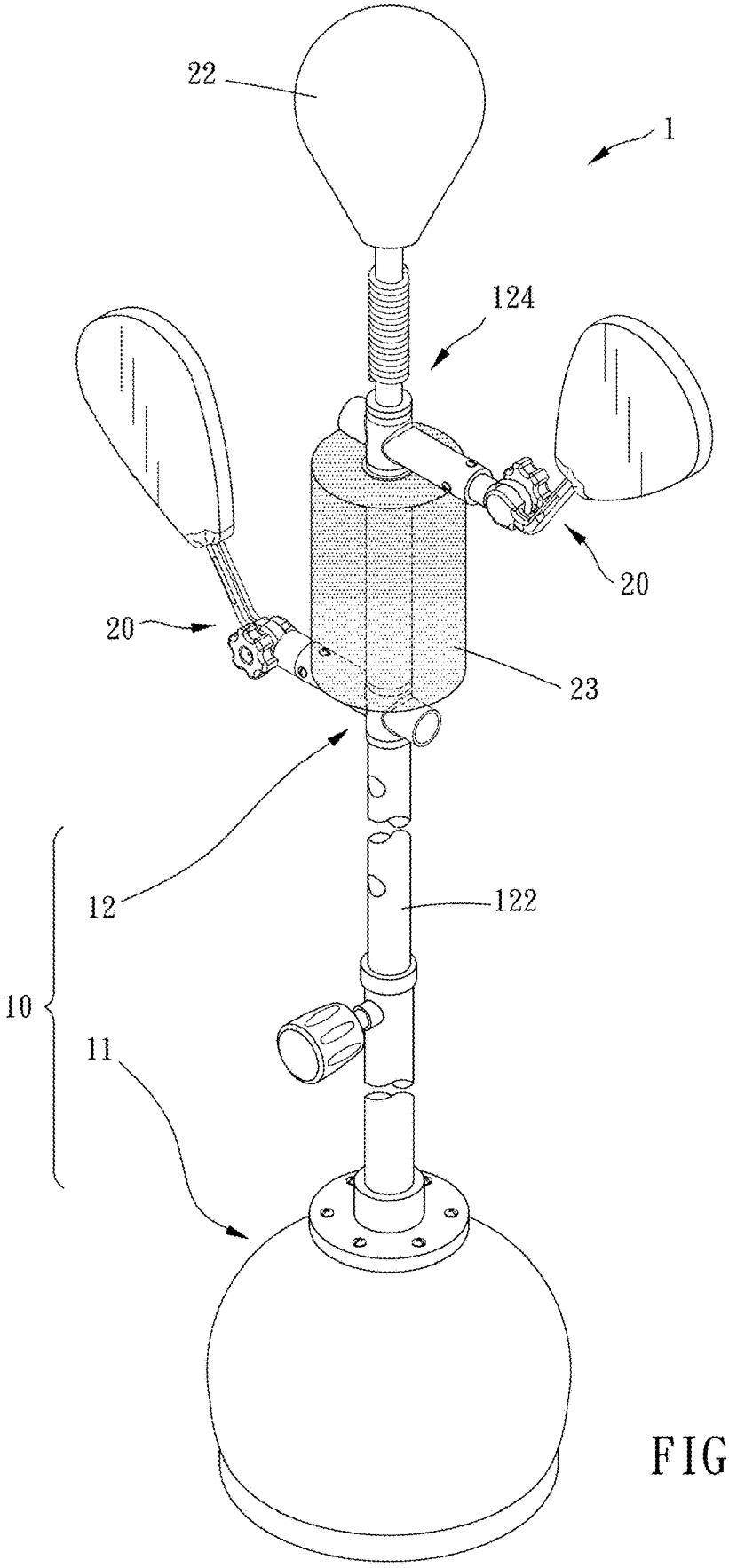


FIG. 1

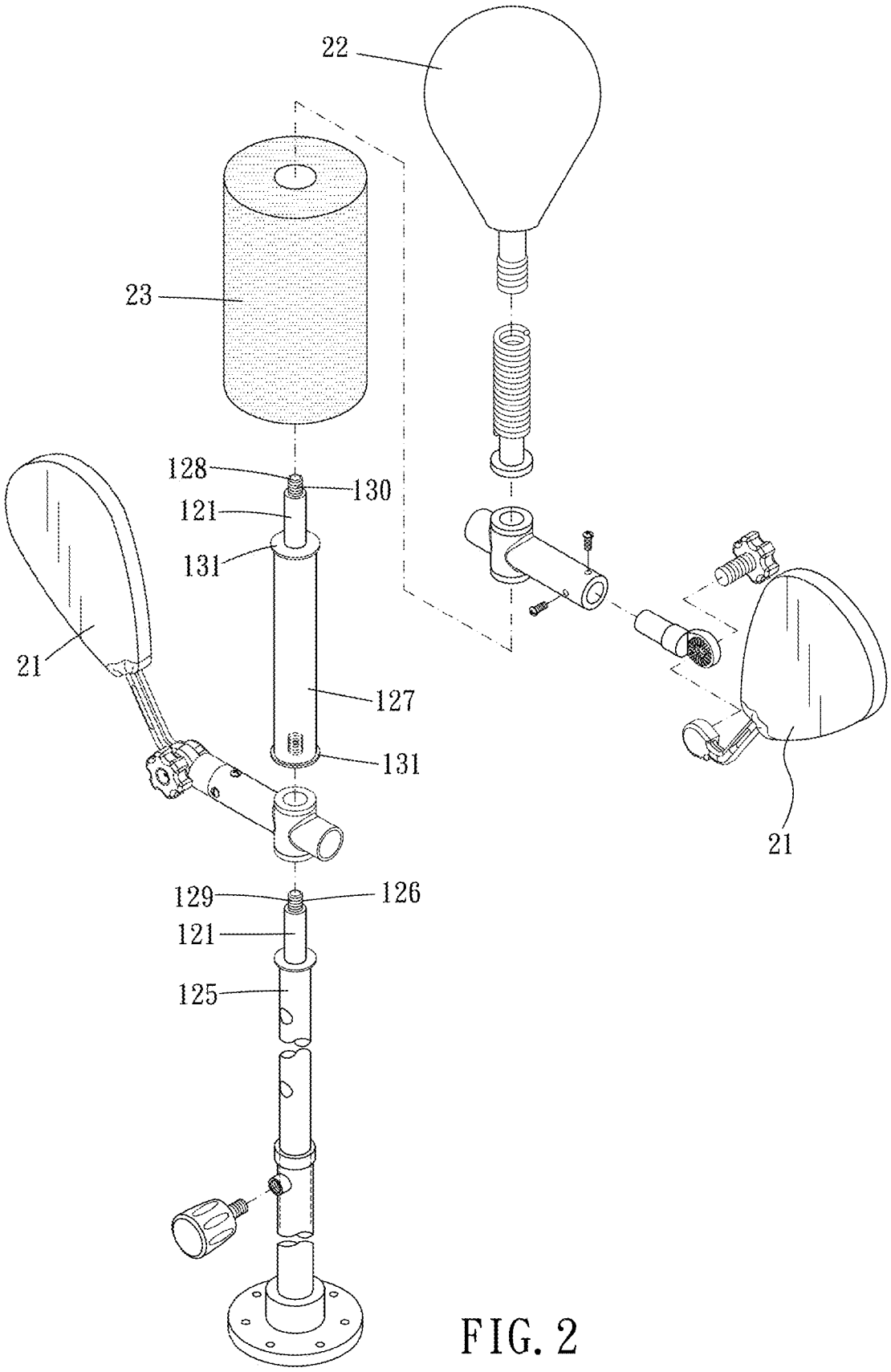


FIG. 2

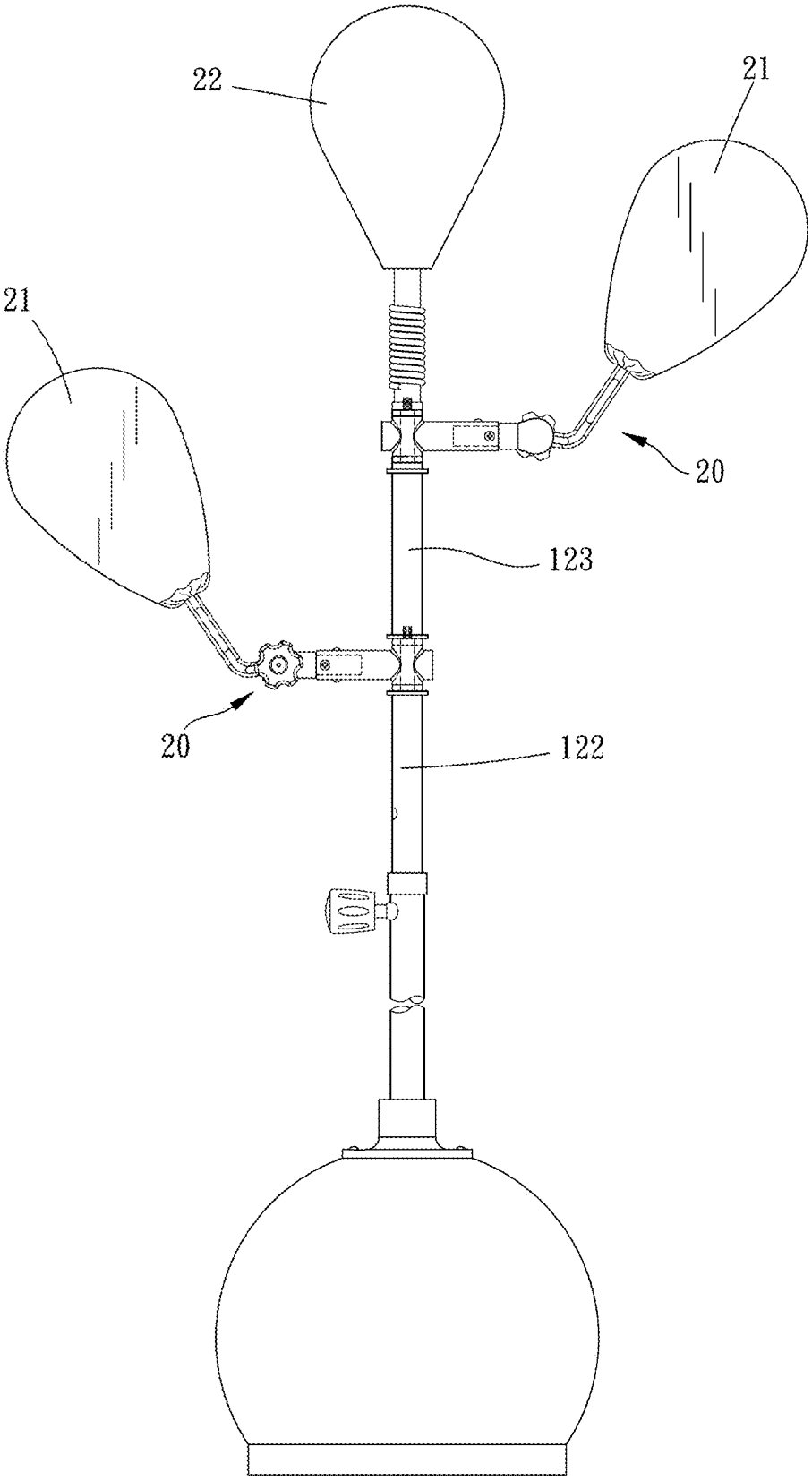


FIG. 3

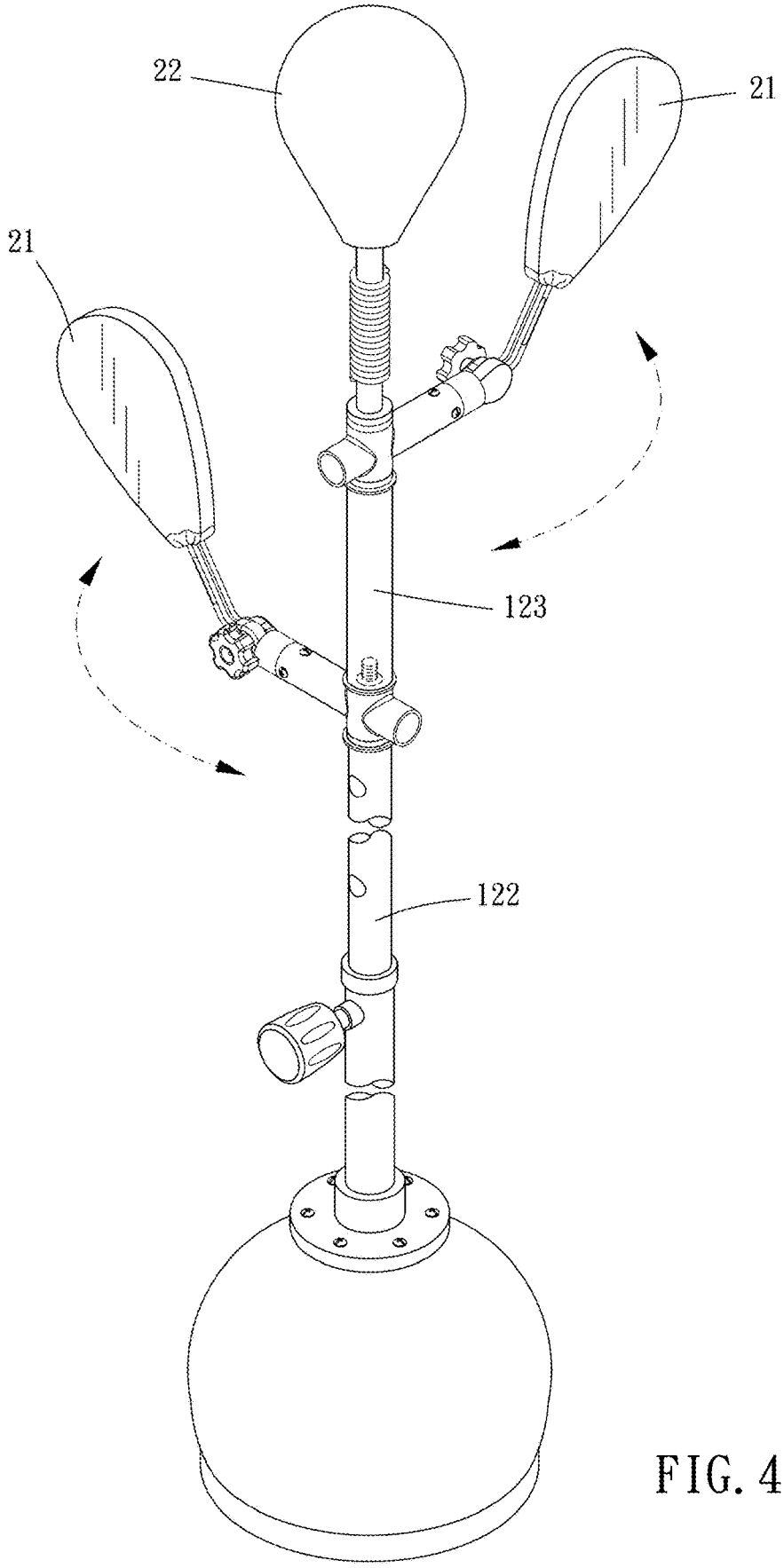


FIG. 4

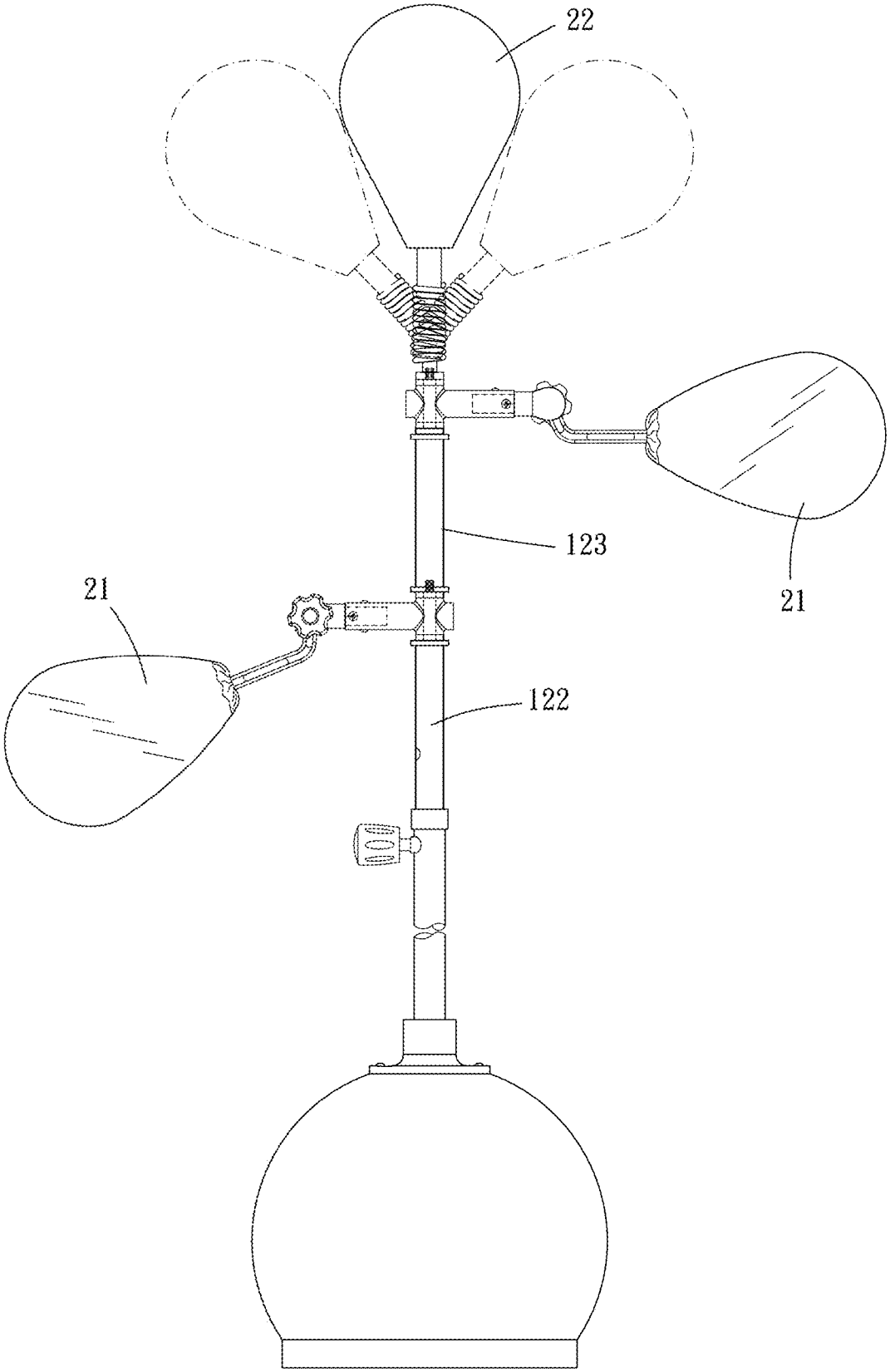


FIG. 5

PUNCHING-TRAINING DEVICE

BACKGROUND OF THE INVENTION

Field of the Invention

[0001] The present invention relates to a punching-training device.

Description of the Prior Art

[0002] Conventionally, a hit-practicing device has a target for a user to practice striking skills.

[0003] In a conventional hit-practicing device, the target is only positioned at one position, so that the user cannot adjust the target to a suitable angle, it causes the angular limitation of a hit training. The user needs to purchase different kinds of hit-practicing devices to meet different needs, so it is inconvenient to use and also increases a cost of the hit training.

[0004] The present invention is, therefore, arisen to obviate or at least mitigate the above-mentioned disadvantages.

SUMMARY OF THE INVENTION

[0005] The main object of the present invention is to provide a punching-training device which can meet needs of various positions and angles of target for punching.

[0006] To achieve the above and other objects, the present invention provides a punching-training device, including: a support body, having a seat end and an assembling end; a punching mechanism, including a plurality of punched member which are freely rotatable and separately mounted to the assembling end.

[0007] The present invention will become more obvious from the following description when taken in connection with the accompanying drawings, which show, for purpose of illustrations only, the preferred embodiment(s) in accordance with the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] FIG. **1** is a stereogram of a preferable embodiment of the present invention;

[0009] FIG. **2** is a breakdown drawing of a preferable embodiment of the present invention;

[0010] FIG. **3** is a side view of a preferable embodiment of the present invention; and

[0011] FIGS. **4** and **5** are drawings showing operation of a preferable embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0012] Please refer to FIGS. **1** to **5** for a preferable embodiment of the present invention. A punching-training device **1** includes a support body **10** and a punching mechanism **20**.

[0013] The support body **10** includes a seat end **11** and an assembling end **12**. The punching mechanism **20** includes a plurality of punched members **21** which are freely rotatable and separately mounted to the assembling end **12**, wherein each said punched member **21** may be totally freely rotatable for 360 or a limited degrees. Whereby, it can meet needs of various positions and angles of target for punching.

[0014] The assembling end **12** includes a plurality of small diameter shafts **121** on which the plurality of punched members **21** are rotatably mounted, in which each said punched member **21** may be adjustable and locked in a specific angle and position. The assembling end **12** further includes a supporting rod **122**, at least one interposed member **123** and a stop portion **124**. The supporting rod **122** includes a first large diameter section **125**, one said small diameter shaft **121** connected with the first large diameter section **125**, and a first connection end **126** disposed at one end of the one said small diameter shaft **121**. The at least one interposed member **123** includes a second large diameter section **127** detachably connected with the first connection end **126**, another one said small diameter shaft **121** connected with the second large diameter section **127**, and a second connection end **128** disposed at one end of the another one said small diameter shaft **121** and detachably connected with the stop portion **124**. The first connection end **126** includes a male or female threaded structure **129**, the second connection end **128** includes a male or female threaded structure **130**, the at least one interposed member **123** is screwed to the first connection end **126**, and the stop portion **124** is screwed to the second connection end **128**, which is easy to assemble/disassemble and provides various arrangements of the punched members. The stop portion **124** may further include another punched member **22**, the another punched member **22** may be identical or nonidentical to said punched member **21**.

[0015] The supporting rod **122** is retractable so that the height of the punched member **21** is adjustable. According to various manufacturing or assembling requirements, the first large diameter section **125** is integrally formed with or detachably connected with the one said small diameter shaft **121** and the first connection end **126**; each said second large diameter section **127** is integrally formed with or detachably connected with the another one said small diameter shaft **121** and the second connection end **128**. Respective diameters of the first connection end **126** and the second connection end **128** are smaller than a diameter of the small diameter shaft **121**, thus being capable of restricting assembling position without any additional elements. Preferably, the second large diameter section **127** is longer than each said small diameter shaft **121**, which can stably hold the punched member **21**.

[0016] Each of two distal ends of each said second large diameter section **127** includes a radial flange **131**, which can improve the structural strength and stability. Each said second large diameter section **127** has a length equal to or greater than 10 centimeters, and the punching mechanism **20** preferably further includes at least one cushion member **23** located between the plurality of punched members **21** and disposed around the assembling end **12**, thus providing additional punching region.

[0017] In other embodiments, the punching-training device may include a plurality of interposed member, wherein neighboring two of the interposed members are detachably connected in series and define one small diameter shaft. The interposed members may have second large diameter sections of the same length; or at least two of the plurality of interposed members may have second large diameter sections of different lengths, which can simulate punching coming from different height and/or position.

[0018] Although particular embodiments of the invention have been described in detail for purposes of illustration, various modifications and enhancements may be made with-

out departing from the spirit and scope of the invention. Accordingly, the invention is not to be limited except as by the appended claims.

1. A punching-training device, including:

a support body, having a seat end and an assembling end;

a punching mechanism, including a plurality of punched member which are freely rotatable and separately mounted to the assembling end,

wherein the assembling end includes a plurality of small diameter shafts on which the plurality of punched members are rotatably mounted, and each of the plurality of small diameter shafts is smaller than the seat end, and

wherein the assembling end further includes a supporting rod, at least one interposed member and a stop portion, the supporting rod includes a first large diameter section, one said small diameter shaft connected with the first large diameter section, and a first connection end disposed at one end of the one said small diameter shaft, and the at least one interposed member includes a second large diameter section detachably connected with the first connection end, another one said small diameter shaft connected with the second large diameter section, and a second connection end disposed at one end of the another one said small diameter shaft and detachably connected with the stop portion.

2. (canceled)

3. (canceled)

4. The punching-training device of claim **1**, wherein the first connection end includes a male or female threaded structure, the second connection end includes a male or female threaded structure, the at least one interposed member is screwed to the first connection end, and the stop portion is screwed to the second connection end.

5. The punching-training device of claim **1**, wherein the second large diameter section is longer than each said small diameter shaft.

6. The punching-training device of claim **1**, wherein each of two distal ends of said second large diameter section includes a radial flange.

7. The punching-training device of claim **1**, wherein said second large diameter section has a length equal to or greater than 10 centimeters.

8. The punching-training device of claim **4**, wherein the supporting rod is retractable, the first large diameter section is integrally formed with or detachably connected with the one said small diameter shaft and the first connection end; said second large diameter section is integrally formed with or detachably connected with the another one said small diameter shaft and the second connection end; respective diameters of the first connection end and the second connection end are smaller than a diameter of each of the plurality of small diameter shafts; the second large diameter section is longer than each said small diameter shaft; each of two distal ends of said second large diameter section includes a radial flange; said second large diameter section has a length equal to or greater than 10 centimeters.

9. The punching-training device of claim **1**, wherein the punching mechanism further includes at least one cushion member located between the plurality of punched members and disposed around the assembling end.

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