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Osculati

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(54) **TOY SYSTEM AND TOY FIGURE HEAD AND HEADWEAR**

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(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,327,059 A * 8/1943 George G03B 15/08 446/337
3,583,059 A * 6/1971 Ceolin A63H 3/16 29/444
(Continued)

FOREIGN PATENT DOCUMENTS

AR 211357 A1 11/1977
CN 201370962 Y 12/2009
(Continued)

OTHER PUBLICATIONS

First Technical Examination Report from priority Danish application No. PA 201970062, dated Jul. 10, 2019, 9 pages.
(Continued)

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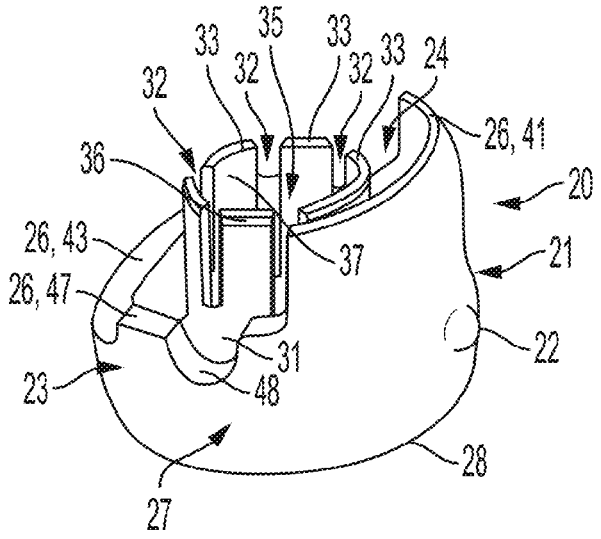
(57) **ABSTRACT**

A toy figure system having
a toy figure head, and
a top headwear item
wherein the toy figure head includes a first central coupling member, the first coupling member having a tubular wall with an internal space;
wherein the top headwear item includes a second central coupling member configured for cooperating with said internal space of the first coupling member; and
wherein the toy figure system includes an intermediate headwear item, comprising a connector ring configured for coupling to an outer surface of said first coupling member.

13 Claims, 4 Drawing Sheets



(58) **Field of Classification Search**
USPC 446/97, 99, 100, 321
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,030,239	A *	6/1977	White	A63H 3/48 446/353
4,185,412	A *	1/1980	Rahmstorf	A63H 3/16 446/98
4,356,659	A *	11/1982	Clarke	A63H 3/40 446/97
4,399,632	A *	8/1983	Iseki	A63H 3/16 446/101
4,643,691	A *	2/1987	Keiji	A63H 3/46 446/376
4,820,234	A *	4/1989	Isaf	A63H 3/16 446/337
6,146,721	A *	11/2000	Freynet	A63H 3/365 446/236
6,447,359	B1 *	9/2002	Crump	A63H 3/44 446/337
6,511,359	B1 *	1/2003	Lui	A63H 3/16 40/411
6,568,986	B2 *	5/2003	Kobayashi	A63H 3/46 446/268
8,210,891	B2 *	7/2012	Brumagin	A63H 3/46 446/376
9,573,075	B1 *	2/2017	Capriola	A63H 33/042
10,220,325	B1 *	3/2019	Kelley	A63H 17/25
10,421,025	B1 *	9/2019	Ward	A63H 3/365
11,305,204	B1 *	4/2022	Nam	A63H 3/16
2013/0023183	A1 *	1/2013	Zheng	A63H 3/44 446/394

FOREIGN PATENT DOCUMENTS

CN	102921174	A	2/2013
CN	108176056	A	6/2022
DE	3143496	A1	6/1983
FR	2340112	A1	9/1977
FR	2418001	A1	9/1979
JP	85480394	U	1/1979
JP	856173382	U	12/1981
JP	861133092	U	8/1986
JP	H0235795	U	3/1990

OTHER PUBLICATIONS

International Search Report and Written Opinion from corresponding international application No. PCT/EP2020/052092, dated Apr. 1, 2020, 10 pages.

First Office Action issued in corresponding Chinese Patent Application No. 202080010904.6, dated Apr. 26, 2022, 6 pages.

* cited by examiner

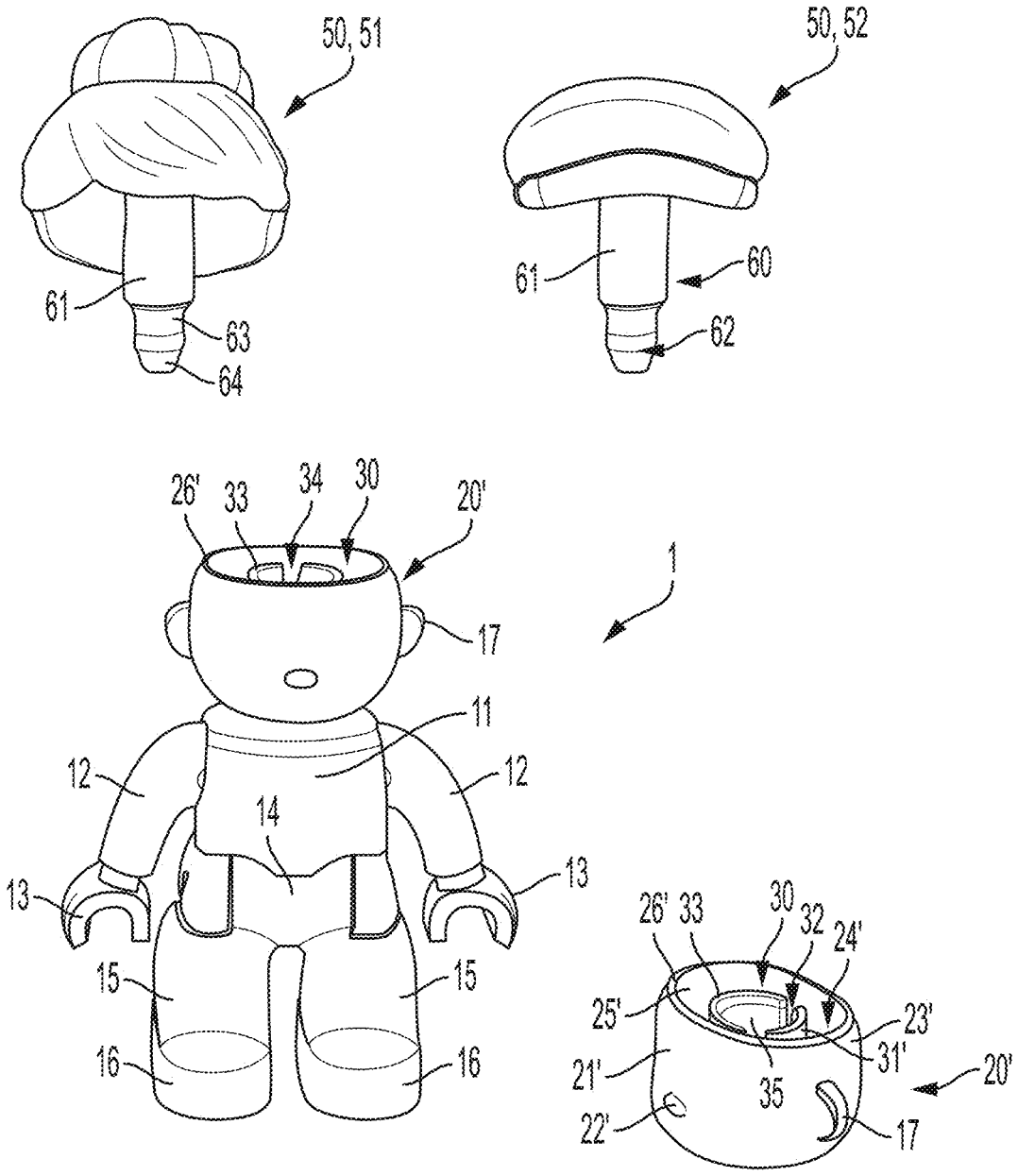

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FIG. 1

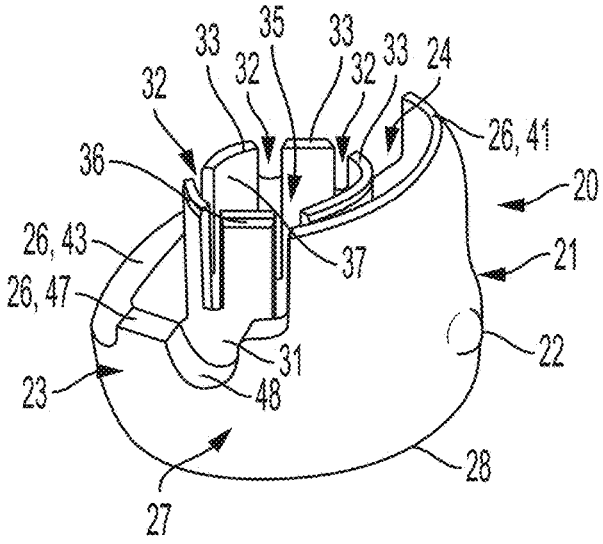

FIG. 2

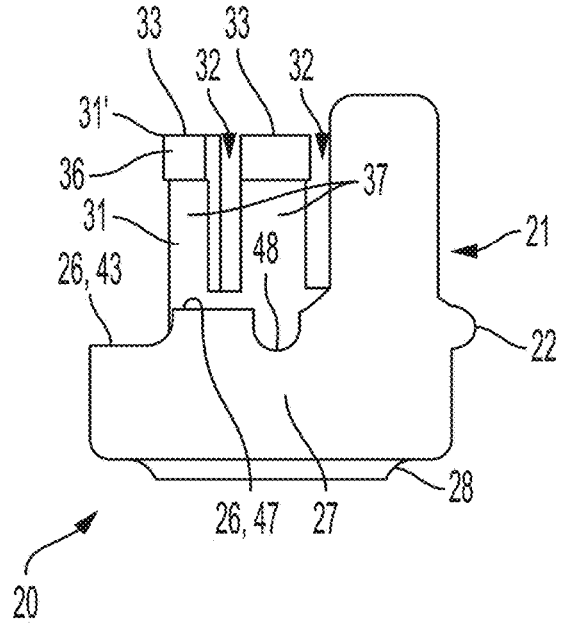

FIG. 3A

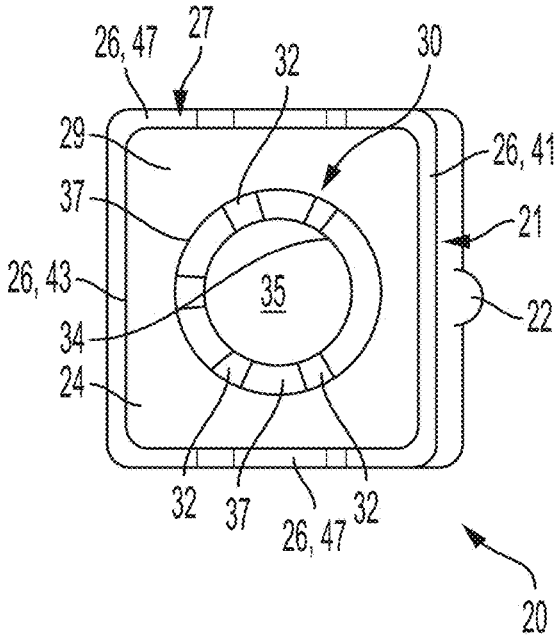

FIG. 3B

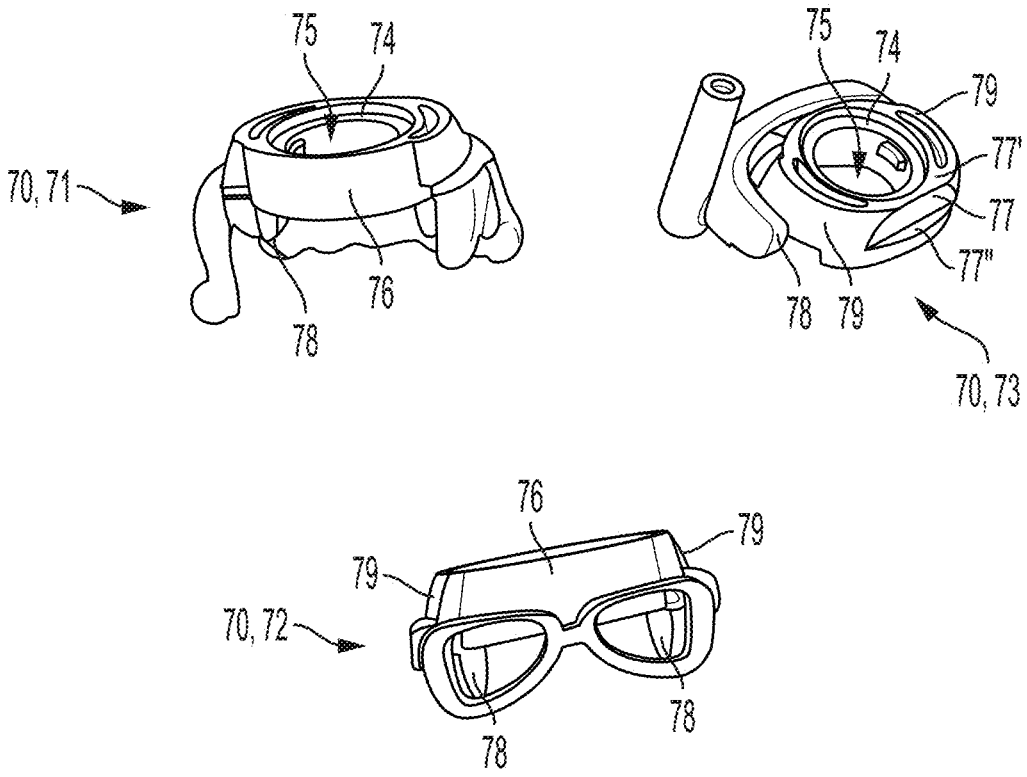

FIG. 4

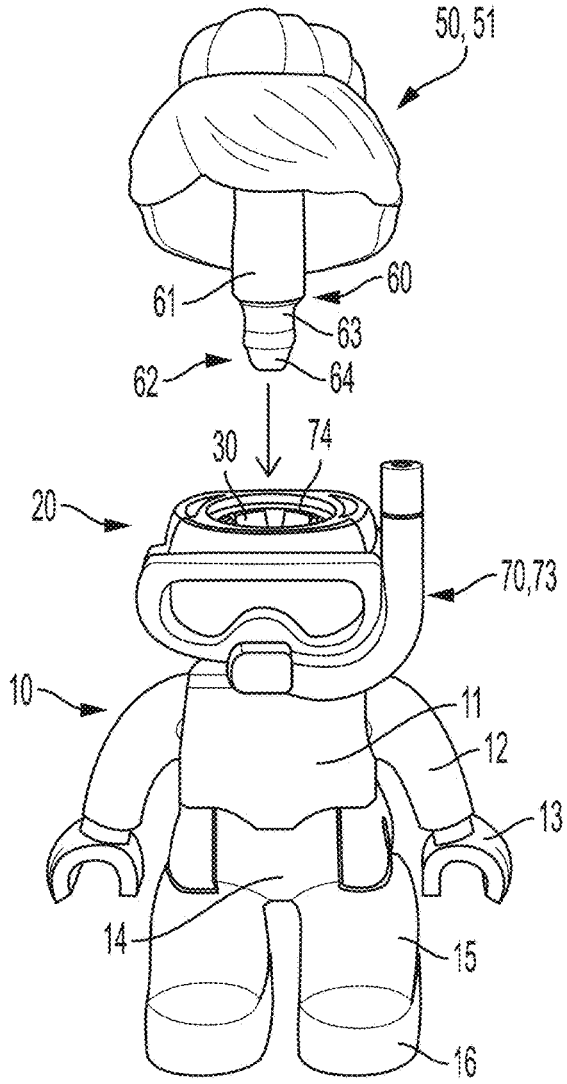
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FIG. 5A

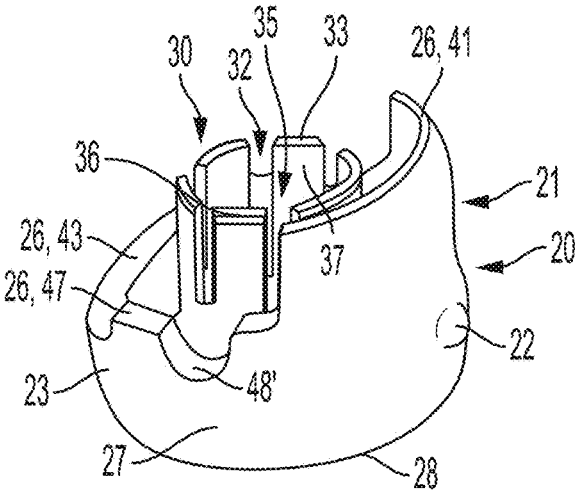
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FIG. 5B

TOY SYSTEM AND TOY FIGURE HEAD AND HEADWEAR

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a U.S. National Stage of International Application No. PCT/EP2020/052095, filed on 29 Jan. 2020 and published on 6 Aug. 2020, as WO2020/157095, which claims the benefit of priority to Danish Patent Application No. PA 2019 70062, filed on 29 Jan. 2019. The content of each of the above referenced patent applications is incorporated herein by reference in its entirety for any purpose whatsoever.

FIELD OF THE DISCLOSURE

The present disclosure relates to a toy system comprising a toy figure, a toy figure head, top headwear, and intermediary headwear. The disclosure also relates to a toy figure head, as well as to an intermediate headwear for a toy figure head. More particularly the present disclosure relates to toy figures that are formed from rigid parts, formed in a herd material, for example injection molded materials, such as plastic.

BACKGROUND

In the field of toy figures and toy systems comprising toy figures, it is known to have a modular toy system, where a toy figure body may be provided with a releasably mounted toy head, which allows the toy figure body to be equipped with interchangeable heads, for example heads having different facial expressions or other characteristics, such as gender characteristics, etc. Also, known in the art is toy systems, where a toy figure head may be shaped so that it can be interchangeably be mounted with various different types of top headwear items, such as hair-type top headwear items or hat-type top headwear items. An example of such a system is shown in FIG. **1** of the attached drawing. A disadvantage of this system is that it is not possible to attach additional headwear items, such as items resembling glasses, or different items such as hair and a hat to the toy figure head, without integrating them into the top headwear item.

U.S. Pat. No. 4,185,412 discloses a toy figure with a head construction with a head part, a wig part and a hat part. The wig part can be mounted in a hole (socket) in the head part, and the hat part has a downwardly extending socket pin that can be mounted in a corresponding notch in the wig part. While this system allows to combine the head part with various types of wig parts and various hat-parts, it is unsuitable for providing the head part with various face covering parts such glasses, scuba-masks or other masks.

JP patent document no. 56173382 discloses a toy figure with a head construction comprising a head part, a wig part and a hat part. The wig part can be mounted onto a peg on the hat part, and the peg on the hat part can be inserted into a socket in the head part, so that the wig part is locked between the peg and the socket. While this system allows to combine the head part with various types of wig parts and various hat-parts, it is unsuitable for providing the head part with various face covering parts such glasses, scuba-masks or other masks.

The Japanese utility model JP56173382U discloses a toy figure, having a head part and a hair resembling wig part. The wig part has a downwardly extending protrusion attachable in a boss upwardly extending in the head part. A further part, resembling pigtails of hair is provided between the wig part and the head part, such that the wig part and the further appears as a hair style with pigtails. The pigtail part has an annular holding portion to surround a thin diameter portion of the protrusion from the wig part, and such that the annular holding portion is held sandwiched between a thick portion of the protrusion and an upper surface of the boss. In an inner surface of the wig part a vertically oriented elongate notch is formed to allow room for connecting member of the pigtail part to extend downwards from the upper edge of the head part to the lower edge of the wig part. The head part, the wig part and the pigtail part, once assembled is coherent unit.

Thus, there is a need for a toy system, where the options for mounting different headwear items is increased.

SUMMARY OF THE DISCLOSURE

In a first aspect of the disclosure the above mentioned object, as well as other objects, is achieved by toy figure system comprising

a toy figure head, and

a top headwear item,

wherein the toy figure head comprises a first central coupling member, the first coupling member comprising a tubular wall with an internal space, and an outer surface;

wherein the top headwear item comprises second central coupling member configured for cooperating with said internal space of the first coupling member; and

wherein the toy figure system comprises an intermediate headwear item, comprising a connector ring configured for coupling to or encircling the outer surface of said first coupling member.

Thereby the connector ring on the wig part may be designed much more rigid so that it can support more rigid parts such as glasses or scuba-masks or other heavier equipment. Furthermore it enables that the hat part can be securely assembled onto the head part with or without the use of a wig part.

In an embodiment, the second central coupling member comprises a second snap member, and the first central coupling member comprises a complementary first snap member. In such embodiments, the toy figure head may be coupled to a toy figure body via coupling means provided at a bottom surface of the toy figure head.

Alternatively, the toy figure system further comprises a toy figure with a toy figure body, and the second central coupling member comprises a second snap member and a complementary first snap member is formed within said toy figure body.

In any of the previous embodiments the first coupling member may comprise a bead formed along an upper rim of the tubular wall. This allows an intermediate headwear item to be connected to the first coupling member in a snap fit connection.

In any of the previous embodiments the intermediate headwear item may comprise a back portion having an upwardly facing surface and a downwardly facing surface, where the downwardly facing surface is configured for abutment with a rim of the toy figure head.

Further, in any of the previous embodiments the toy figure head may comprise a front face, a back scull portion and two side surfaces interconnecting the front face and the back scull portion, wherein the front face comprises a front face rim, wherein the back scull portion comprises a back scull

rim, and wherein the back scull rim is formed lower than the front face rim. A lower back skull rim allows room for an intermediate headwear item.

In a second aspect of the disclosure, the above mentioned object and other objects of the disclosure may be obtained by a toy figure head for mounting/receiving a top headwear item and an intermediate headwear item, the toy figure head comprising a front face, a back scull portion, two side surfaces interconnecting the front face and the back scull portion, and a first central coupling member,

wherein the first central coupling member comprises a tubular wall with an internal space,

wherein the front face comprises a front face rim,

wherein the back scull portion comprises a back scull rim, and

wherein the back scull rim is formed lower than the front face rim.

In an embodiment, the first coupling member comprises a bead formed along an upper rim of the tubular wall.

In a third aspect of the disclosure, the above mentioned object and other objects of the disclosure may be obtained by an intermediate headwear item for mounting on a toy figure head, wherein the intermediate headwear item comprises a connector ring configured for coupling to an outer surface of a first coupling member of a toy figure head.

In a fourth aspect of the disclosure, the above mentioned object and other objects of the disclosure may be obtained by a use of an intermediate headwear item according to the third aspect of the disclosure for mounting on a toy figure head according to the second aspect of the disclosure.

It should be emphasized that the term "comprises/comprising/comprised of" when used in this specification is taken to specify the presence of stated features, integers, steps or components but does not preclude the presence or addition of one or more other features, integers, steps, components or groups thereof.

BRIEF DESCRIPTION OF THE DRAWINGS

In the following, the disclosure will be described in greater detail with reference to embodiments shown by the enclosed figures. It should be emphasized that the embodiments shown are used for example purposes only and should not be used to limit the scope of the disclosure.

FIG. **1** shows a prior art toy figure with a toy figure head and various top headwear items, and a separate prior art toy figure head;

FIG. **2**, in a perspective view, shows a toy figure head according to an embodiment of the disclosure;

FIG. **3**A shows a side view of a toy figure head according to an embodiment of the disclosure;

FIG. **3**B shows a top view of the toy figure head in FIG. **3**A;

FIG. **4** shows various intermediary headwear items according to the disclosure

FIG. **5**A shows a toy figure, with a toy figure head equipped with an intermediate headwear item, and a top headwear ready for mounting; and

FIG. **5**B, in a perspective view, shows a toy figure head for comparison with the mounted intermediary headwear item in FIG. **5**A.

DETAILED DESCRIPTION OF THE EMBODIMENTS

FIG. **1** shows a prior art toy figure system **1'** comprising a toy FIG. **10** and two different top headwear items **50**, in the form of a wig **51** and a cap or hat **52**. The toy figure system **1'** is a modular system, where the toy FIG. **10** comprises a toy figure body **11** and a toy figure head **20'**. The toy figure body **11** may be provided with a releasably mounted toy figure head **20'**. Thereby, the toy figure body **11** may be equipped with interchangeable heads, for example heads having different facial expressions or other characteristics, such as gender characteristics, etc. Also, the toy figure head **20'** of the toy figure system **1'** is shaped, so that it can be interchangeably be equipped with various different types of top headwear items **50**, such as hair-type top headwear items (wigs), or hat-type top headwear items such as the hat **52** shown in FIG. **1**.

The toy figure body **11** comprises two arms **12** rotationally connected thereto. A hand **13** is rotationally connected to each arm **12**. A leg connector part **14** is rotationally connected to the toy figure body **11**. Two legs are rotationally connected to the leg connector part **14**. The legs **15** may be individually rotatable relative to the leg connector part **14**, or they may be arranged to rotate in unison. Each leg **15** comprises a foot **16**, which may be formed integral with the leg **15**. The foot **16** may comprise a knob receiving indentation in a lower surface thereof, the knob receiving indentation being configured for cooperating with knobs of toy building blocks with cooperating knobs and indentations, such as it is known in the art of modular toy construction sets.

As mentioned, the toy FIG. **10** of the prior art toy figure system **1'** as shown in FIG. **1** further comprises a prior art toy figure head **20'**. The prior art toy figure head **20'** comprises a front face **21'** formed with a nose **22'** and ears **17** formed on sides of a back skull portion **23'**. The prior art toy figure head **20'** comprises an inner space **24'**, and an upper opening **25'** into the inner space **24'**. The upper opening **25'** defines a rim **26'**. Inside the toy figure head **20'**, i.e. in the inner space **24'**, a first central coupling member **30** is formed.

The first central coupling member **30** formed as a tubular structure, such as cylindrical structure, having a tubular wall **31**, with a first or upper end **31'** and a second or lower end (not shown) connecting to a (not shown) bottom wall of the toy figure head **20'**. Slits **32** may be formed in the tubular wall **31** of the first central coupling member **30** to provide a certain resilience of the first central coupling member **30** in order to receive a second central coupling member **60**, see below. The slits **32** preferably extend in a longitudinal direction in the tubular wall **31** from the first end **31'** thereof. The slits **32** extend only in an upper portion of the tubular wall **31**, and thereby divide the upper end of the tubular wall into tongues **37**. The upper end **31'** of the first central coupling member **30** comprises an upper rim **33** encircling an opening **34** into an internal space **35** extending through the first central coupling member **30**. As shown in FIG. **1**, the internal space **35** is cylindrical.

FIG. **1** also shows a loose prior art toy figure head **20'**, i.e. a prior art toy figure head **20'**, which is not connected to a toy figure body **11**.

As mentioned above, FIG. **1** shows two different types of top headwear items **50**, a wig or hair like top headwear item **51**, seen on the left of the figure, and a cap or hat type top headwear item **52**.

Common to both of the shown types of top headwear items **50** is that they are provided with a downwardly extending second central coupling member **60**. The second central coupling member **60** extends from an inner surface of the top headwear item **50**.

A length of the first central coupling member **30** is configured such that the upper rim **33** of the tubular wall **31** abuts the inner surface of the top headwear item **50**.

The second central coupling member **60** is formed as an elongate structure, such as peg **61**, and having an upper end **61'** connecting to the top headwear items **50** as such, and a lower end **61"**.

The second central coupling member **60** may be formed as a tubular structure, such as a generally cylindrical structure, having a tubular wall (not shown). However in other embodiments, the peg **61** is a solid elongate structure.

At the lower, end **61"** of the peg **61**, the second central coupling member **60** is provided with a second snap member **62** formed integrally with the peg **61** and in extension thereof, and comprising an indentation **63** and a bead **64**.

The cross sectional shape of the peg **61** is shaped and dimensioned to fit snugly into the internal space **35** of the first central coupling member **30**. In this case, the peg **61** is of cylindrical shape, therefore having a circular cross section with a diameter. The diameter of the peg **61** is preferably to fit snugly with a diameter of the cylindrical internal space **35** of the first central coupling member.

The second snap member **62** is configured to cooperate with a first snap member (not shown) being provided inside the toy figure body **11** of the toy FIG. **10**. The length of the second central coupling member **60** is adapted such that it may extend through the internal space **35** of the first central coupling member **30** and reach the first snap means in the toy figure body **11**. The first snap means are configured to releasably interlock with the second snap means **62** in a snap fit. Thereby, a top headwear item **50** may be joined to the toy FIG. **10** by placing a toy figure head **20'** on the toy figure body **11**, and extending the second central coupling member **60** thereof, through the internal space **35** of the first central coupling member **30** formed inside the toy figure head **20'**, and snapping the second snap member **62** into the first snap member (not shown) inside the toy figure body **11**.

Now turning to FIG. **2** showing an embodiment of a toy figure head **20** according to an aspect of the disclosure and for a toy figure system **1** according to another aspect of the disclosure.

The toy figure head **20** comprises a front face **21**. The front face **21** may be formed with a nose **22**. In not shown embodiments, other facial characteristics of a human face may be provided on the front face **21**. The toy figure head **20** further comprises a back skull portion **23** and side skull portions **27**.

The toy figure head **20** comprises an inner space **24**, and an upper opening **25** into the inner space **24**. The upper opening **25** defines a rim **26**. Contrary to the rim **26'** of the prior art toy figure head **20'** described above, the rim **26** of the toy figure head **20** according to the disclosure is not defined in the same (horizontal) plane, but comprises rim sections, front face rim **41**, a back scull rim **43** and side wall rims **47**. These rim sections are arranged in horizontal planes in different heights over a lower rim **28** (see FIG. **3**A) of the toy figure head **20**.

Inside the toy figure head **20** shown in FIGS. **2** and **3**, i.e. in the inner space **24**, a first central coupling member **30** is formed.

The first central coupling member **30** formed as a tubular structure, such as cylindrical structure, having a tubular wall **31**, with a first or upper end **31'** and a second or lower end (not shown) connecting to a bottom wall **29** (See FIG. **3**B) of the toy figure head **20**. Slits **32** may be formed in the tubular wall **31** of the first central coupling member **30** to provide a certain resilience of the first central coupling member **30** in order to receive a second central coupling member **60** of a top headwear item **50**, for example as described above. The slits **32** preferably extend in a longitudinal direction in the tubular wall **31** from the first/upper end **31'** thereof. The slits **32** extend only in an upper portion of the tubular wall **31**, and thereby divide the upper end of the tubular wall into tongues **37**. The upper end **31'** of the first central coupling member **30** comprises an upper rim **33** encircling an opening **34** into an internal space **35** of the first central coupling member **30**. The internal space may extend through the first central coupling member **30**. The internal space may further extend through the first central coupling member **30** and though the bottom wall **29** of the toy figure head **20**. As shown in FIGS. **2** and **3**, preferably the internal space **35** is cylindrical.

The toy figure head **20** according to the disclosure may form part of a toy figure system **1**, such as a toy figure system shown in FIG. **5**A.

Like the above described prior art toy figure system **1'**, the toy figure system according the disclosure comprises a toy figure head **20** according to the disclosure.

In embodiments, the toy figure system **1** according the disclosure may further comprise a toy FIG. **10**. The toy FIG. **10** according to the toy figure system **1** of the disclosure may in general be similar to the toy figure described in connection with FIG. **1** above. However, as is described below it may also vary in some aspects.

In embodiments the toy figure system **1** according the disclosure may alternatively or additionally comprise at least one top headwear item **50**. The top headwear item **50** according to the toy figure system **1** of the disclosure may in general be similar to the top headwear item **50** described in connection with FIG. **1** above. However, as is described below it may also vary in some aspects.

In embodiments the toy figure system **1** according the disclosure may alternatively or additionally comprise at least one intermediary headwear item **70**. The intermediary headwear item **70** according to the disclosure is described in further detail below.

As with the prior art, the toy figure system **1** according to the disclosure is a modular system, where the toy FIG. **10** and a toy figure head **20** may be releasably connected to the toy FIG. **10**. Thereby, the toy figure body **11** may be equipped with interchangeable heads, for example heads having different facial expressions or other characteristics, such as gender characteristics, etc. In other embodiments the head according to the disclosure may form part of toy FIG. **10**, where the two are not intended for disassembly by the user.

However, in any case, the toy figure head **20** of the toy figure system **1** according to the disclosure is shaped, so that it can be interchangeably be equipped with various different types of top headwear items **50**, such as hair-type top headwear items (wigs) **51**, or hat-type top headwear items such as the hat **52** shown in FIG. **5**A. Further, the toy figure head **20** of the toy figure system **1** according to the disclosure is shaped, so that it can interchangeably be equipped with various different types of intermediary headwear items **70**, as will be described below.

As is the case with the prior art toy figure system **1'**, the toy FIG. **10** of the present toy figure system **1** comprises a toy figure body **11**, The toy figure body **11** comprises two arms **12** rotationally connected thereto. A hand **13** is rotationally connected to each arm **12**. A leg connector part **14** is rotationally connected to the toy figure body **11**. Two legs are rotationally connected to the leg connector part. The legs **15** may be individually rotatable relative to the leg connector

part **14**, or they may be arranged to rotate in unison. Each leg **15** comprises a foot **16**, which may be formed integral with the leg **15**. The foot **16** may comprise a knob receiving indentation in a lower surface thereof, the knob receiving indentation being configured for cooperating with knobs of toy building blocks with cooperating knobs and indentations, such as it is known in the art of modular toy construction sets.

As mentioned above, FIG. **5**A shows to different types of top headwear items **50**, a wig or hair like top headwear item **51**, seen on the left of the figure, and a cap or hat type top headwear item **52**, seen on the right of the figure. The top headwear items **50** according to the present disclosure may be similar to the prior art top headwear items **50** described above.

Common to different types of top headwear items **50** according to the disclosure is that they are provided with a downwardly extending second central coupling member **60**. The second central coupling member **60** extends from an inner surface of the top headwear item **50**.

A length of the first central coupling member **30** is configured such that the upper rim **33** of the tubular wall **31** abuts the inner surface of the top headwear item **50**.

The second central coupling member **60** is formed as an elongate structure, such as peg **61**, and having an upper end **61'** connecting to the top headwear items **50** as such, and a lower end **61"**. The second central coupling member **60** may be formed as a tubular structure, such as a generally cylindrical structure, having a tubular wall (not shown). However in other embodiments, the peg **61** is a solid elongate structure.

At the lower, end **61"** of the peg **61**, the second central coupling member **60** is provided with a second snap member **62** formed integrally with the peg **61** and in extension thereof. The second snap member **62** may comprise an indentation **63** and a bead **64**. In other not shown embodiments, the second snap member **62** may be provided with other types of snap means.

The cross sectional shape of the peg **61** is shaped and dimensioned to fit snugly into the internal space **35** of the first central coupling member **30**. In this case, the peg **61** is of cylindrical shape, therefore having a circular cross section with a diameter. The diameter of the peg **61** is preferably to fit snugly with a diameter of the cylindrical internal space **35** of the first central coupling member **30**.

The second snap member **62** may in some embodiments, and as indicated in FIG. **5**A be configured to cooperate with a first snap member (not shown) being provided inside the toy figure body **11** of the toy FIG. **10**. The length of the second central coupling member **60** is adapted such that it may extend through the internal space **35** of the first central coupling member **30** and reach the first snap means in the toy figure body **11**. The first snap means are configured to releasably interlock with the second snap means **62** in a snap fit. Thereby, a top headwear item **50** may be joined to the toy FIG. **10** by placing a toy figure head **20** on the toy figure body **11**, and extending the second central coupling member **60** thereof, through the internal space **35** of the first central coupling member **30** formed inside the toy figure head **20**, and snapping the second snap member **62** into the (not shown) first snap member inside the toy figure body **11**.

In other (not shown) embodiments second snap member **62** may be configured to cooperate with a first snap member (not shown) being provided inside the toy figure head **20**. The length of the second central coupling member **60** is adapted such that it may extend into the internal space **35** of the first central coupling member **30** and reach the first snap means formed therein. The first snap means are configured to releasably interlock with the second snap means **62** in a snap fit. In this case, preferably the toy figure head may be connected to the toy figure body through other (not shown) means, provided between the lower rim **28** of the toy figure head **20**.

Now returning to FIGS. **2** and **3**, the rim **26** of the toy figure head **20** comprises rim sections **41**, **43**, and **47**. A first rim section, front face rim **41** is defined at an upper edge of the front face **21** of the toy figure head **20**. A second rim section, a back scull rim **43**, is defined at an upper edge of the back scull wall **23**. Two third rim sections, side wall rims **47** are defined at upper edges of the two side walls **27** interconnecting the front face **21** and the back scull wall **23**.

The front face rim **41** is arranged in a horizontal plane at a first height over a lower rim **28** (see FIG. **3**A) of the toy figure head **20**. The first height is preferably such that the front face rim **41** is level with or preferably slightly above the upper rim **33** of the first central coupling member **30** as shown in FIGS. **2** and **3**A. The front face rim **41** is configured for abutting and supporting the above mentioned inner surface of the top headwear item **50**.

The back scull rim **43** is arranged in a horizontal plane at a second height over the lower rim **28** (see FIG. **3**A) of the toy figure head **20**. Relative to vertical, the second height is preferably such that the back scull rim **43** is arranged much lower than the front face rim **41**. The back scull rim **43** is configured for abutting and supporting a back portion of an intermediary headwear item **70**.

The two side wall rims **47** are arranged in a horizontal plane at a third height over the lower rim **28** (see FIG. **3**A) of the toy figure head **20**. Relative to vertical, the third height is preferably such that the side wall rims **47** are arranged lower than the front face rim **41** but higher than the back scull rim **43**. The side wall rims **47** are configured for abutting and supporting a side portion of an intermediary headwear item **70**.

A notch **48** in the form of an indentation may preferably be defined in each of the two side wall rims **47**. The notches **48** are configured for cooperating with matching taps formed on side portions of the intermediary headwear item **70**.

Now turning to FIG. **4** variants of an intermediary headwear item **70** according to the disclosure is described. The intermediary headwear item **70** is configured to be mounted on a toy figure head **20** in between the toy figure head **20** and a top headwear item **50**.

In FIG. **4** three different variants of the intermediary headwear item **70** is show. It will be apparent to a person skilled in the art, that numerous other types of intermediary headwear items **70** are possible.

The intermediary headwear item **70** in the upper left hand corner of FIG. **4** shows a new wig type intermediary headwear item **71**. It is apparent that such a wig **71** may be mounted between the toy figure head **20** and, for example, a hat **52** as shown in e.g. FIG. **1**.

In the lower left hand corner of FIG. **4**, an intermediary headwear item **70** in the form of a pair of glasses **72** is shown. It is apparent that such a pair of glasses **72** may be mounted between the toy figure head **20**, and for example a hat **52**, as shown in FIG. **1**, or a wig **51** as shown in e.g. FIGS. **1** and **5** A.

On the upper right hand side of FIG. **4**, an intermediary headwear item **70** in the form of a set of goggles with a snorkel is shown. Thereby a user such as a child, may change a toy FIG. **10** into a diver. As shown in FIG. **5**A, the intermediary headwear item may for example be combined with a wig **51** of the users choosing.

As is apparent from the figures, numerous other intermediary headwear item **70** may be applied. For example a gas mask or beard. An eye patch may be indicative of a pirate and so on.

Despite the numerous options for providing different intermediary headwear items **70**, they share the common trait of having coupling means which a complementary to the toy figure head **20** described above.

For the purpose of connecting the intermediary headwear item **70** to a toy figure head **20**, the intermediary headwear item comprises a connector ring **74**. The connector ring **74** comprises a through-going hole **75**. The size and shape of the through going hole **75** through the connector ring **74** is configured for cooperating with the first central coupling member **30**. Preferably, the tubular wall **31** of the first central coupling member **30** is cylindrical having an outer diameter, and the through going hole **75** through the connector ring **74** has a circular cross section with a diameter substantially equal to the outer diameter of the tubular wall **31**.

A bead **36** may be formed along the rim **33** at the first or upper end **31'** of the tubular wall **31** of the first central coupling member **31**. Together with the resilience provided by the slits **32** in the tubular wall **31** they may provide a snap fit with the connector ring **74**, when mounting the intermediary headwear item **70**. The bead **36** bulges radially outward from an outer surface of the tubular wall **31**, and preferably extend along the entire upper rim **33** thereof. It is apparent however, that the bead **36** is divided into sections by the slits **32**.

The connector ring **74** may comprise a front portion **76** which may be configured for abutment against a rear side of the front face **21** of the toy figure head **70**.

The connector ring **74** may preferably comprise a back portion **77**. The back portion **77** comprises an upwardly facing surface **77'** and a downwardly facing surface **77"**. The downwardly facing surface **77"** is sized and shaped such that it will fit the upwardly facing back scull rim **43** of a toy figure head **20** as described above, when the intermediary headwear item **70** is mounted on the toy figure head **20**. The upwardly facing surface **77'** of the back portion **77** of the connector ring **74** is preferably sized and shaped to support an inner surface of a top headwear item **50**.

The back portion **77** is preferably sized and shaped such that an outer surface thereof is flush with an outer surface of back scull portion **23** of the toy figure head **20**, when the intermediary head wear item **70** is mounted to the toy figure head **20**.

In further embodiments, each of two side portions **79** interconnecting the front portion **76** and the back portion **77** of the connector ring **74** may be provided with downwardly extending protrusions **78**, sized and shaped to complement the notches **48** formed as indentations in the side rims **47** of the side walls **27** of the toy figure head **20**. Further, the side portions **79** of the connector ring **74** are shaped and sized such that an outer surface thereof is flush with an outer surface of the side walls **27** of the toy figure head **20**, when the intermediary head wear item **70** is mounted to the toy figure head **20**.

Mounting the intermediary headwear item **70** of the outside of the first central coupling member **30** allows a top headwear item **50** to be mounted to the toy figure head **20** in a manner similar to described for the prior art toy figure system **1'** described above. Once the intermediary headwear item **70** has been mounted on the toy figure head **20** by placing the hole **75** of the connector ring **74** over the first central coupling member **30** of the toy figure head **20** and pressing it over the first central coupling member **30**, the second central coupling member **60** of the top headwear item **50** may be slid into the inside space of the first central coupling member **30**, such that the second snap member **62** is snapped into the complementary first snap member (not shown) provided either in the toy figure body **11** or in the toy figure head **20**, as described above.

It is apparent that a top headwear item **50** may also be mounted on the toy figure head when no intermediary headwear item is connected to the toy figure head **20**.

The parts of the toy FIG. **10** may each be formed in an injection moulding process and be formed in a material such as a plastic.

The toy figure head **20** may be formed in an injection moulding process and be formed in a material such as a plastic.

The top headwear items **50** may be formed in an injection moulding process and be formed in a material such as a plastic.

The intermediary headwear items **70** may be formed in an injection moulding process and be formed in a material such as a plastic.

It is to be noted that the figures and the above description have shown the example embodiments in a simple and schematic manner. Many of the specific mechanical details have not been shown since the person skilled in the art should be familiar with these details and they would just unnecessarily complicate this description. For example, the specific materials used and the specific injection moulding procedure have not been described in detail since it is maintained that the person skilled in the art would be able to find suitable materials and suitable processes to manufacture the toy figure head and the intermediary headwear item and the toy figure system according to the current disclosure.

PARTS LIST

1 toy figure system
1' prior art toy figure system
10 toy FIG.
11 toy figure body
12 arm
13 hand
14 leg connector part
15 leg
16 foot
17 ear
20 toy figure head
20' prior art toy figure head
21 front face
21' prior art front face
22 nose
22' prior art nose
23 back scull portion
23' prior back scull portion
24 inner space of toy figure head
24' inner space of prior art toy figure head
25 upper opening into the inner space of the toy figure head
25' upper opening into the inner space of the prior art toy figure head
26 rim encircling the upper opening into the inner space of the toy figure head
26' rim encircling the upper opening into the inner space of the prior art toy figure head
27 side wall of toy figure head
28 lower rim of toy figure head
29 bottom wall of toy figure head

30 first central coupling member
31 tubular wall of the first central coupling member
31' first or upper end of the tubular wall of the first central coupling member
32 slits formed in the tubular wall
33 upper rim of the tubular wall of the first central coupling member
34 opening into an internal space of the first central coupling member
35 internal space of the first central coupling member
36 bead formed at first or upper end of the tubular wall of the first central coupling member
37 tongues
41 front face rim
43 back scull rim
47 side wall rim
48 notches formed as indentation in side wall rim
50 top headwear item
51 wig
52 hat
60 second central coupling member
61 peg of the second central coupling member
61' upper end 61' of peg connecting to the top headwear items as such
61" lower end
62 second snap member at the lower end of the peg
63 indentation formed in the second snap member
65 bead formed in the second snap member
70 intermediary headwear item
71 intermediary headwear item in the form of wig
72 intermediary headwear item in the form of glasses
73 intermediary headwear item in the form of a goggles with a snorkel
74 connector ring
75 through-going hole through connector ring
76 front portion of connector ring
77 back portion of connector ring
77' upwardly facing surface of the back portion of the connector ring
77' downwardly facing surface of the back portion of the connector ring
78 downwardly extending protrusions on side portions of the connector rim, the protrusion being sized and shaped to complement the notches in the side wall rim of the toy figure head
79 side portion interconnecting the front portion and the back portion of the connector ring.

What is claimed is:

1. A toy figure system comprising:
a toy figure head, and
a top headwear item,
wherein the toy figure head comprises a first central coupling member, the first coupling member comprising a tubular wall with an internal space and an outer surface;
wherein the top headwear item comprises a second central coupling member configured for cooperating with said internal space of the first coupling member; and
wherein the toy figure system comprises an intermediate headwear item, comprising a connector ring configured for coupling to or encircling the outer surface of said first coupling member.

2. The toy figure system according to claim 1, wherein the second central coupling member comprises a second snap member and wherein the first central coupling member comprises a complementary first snap member.

3. The toy figure system according to claim 1, wherein the first coupling member comprises a bead formed along an upper rim of the tubular wall such that an intermediate headwear item may be connected to the first coupling member in a snap fit connection.

4. The toy figure system according to claim 1, wherein the toy figure head comprises a front face, a back scull portion and two side surfaces interconnecting the front face and the back scull portion,
wherein the front face comprises a front face rim,
wherein the back scull portion comprises a back scull rim, and
wherein the back scull rim is formed lower than the front face rim.

5. The toy figure system according to claim 4, wherein the intermediate headwear item comprises a back portion having an upwardly facing surface and a downwardly facing surface, where the downwardly facing surface is configured for abutment with the back scull rim of the toy figure head.

6. The toy figure system according to claim 5, wherein the upwardly facing surface of the back portion of the connector ring is sized and shaped to support an inner surface of a top headwear item.

7. The toy figure system according to claim 5, wherein the back portion is preferably sized and shaped such that an outer surface thereof is flush with an outer surface of back scull portion of the toy figure head, when the intermediary head wear item is mounted to the toy figure head.

8. The toy figure system according to claim 1, wherein the connector ring comprises a front portion configured for abutment against a rear side of the front face of the toy figure head.

9. The toy figure system according to claim 8, wherein each of two side portions interconnecting the front portion and the back portion of the connector ring is provided with downwardly extending protrusions, sized and shaped to complement notches formed as indentations in the side rims of the side walls of the toy figure head.

10. The toy figure system according to claim 9, wherein the side portions of the connector ring are shaped and sized such that an outer surface thereof is flush with an outer surface of the side walls of the toy figure head, when the intermediary head wear item is mounted to the toy figure head.

11. The toy figure system according to claim 1, wherein the tubular wall of the first central coupling member is cylindrical having an outer diameter, and wherein the connector ring comprises a through-going hole through the connector ring, having a circular cross section with a diameter substantially equal to the outer diameter of the tubular wall.

12. A toy figure system comprising:
a toy figure head including:
a front face having a front face rim,
a back scull portion having a back scull rim formed lower than the front face rim,
two side surfaces interconnecting the front face and the back scull portion, and
a first central coupling member, the first coupling member comprising a tubular wall with an internal space and an outer surface;
a top headwear item including a second central coupling member configured for cooperating with said internal space of the first coupling member; and
an intermediate headwear item including a connector ring configured for coupling to or encircling the outer surface of said first coupling member, the intermediate

headwear item also including a back portion having an upwardly facing surface and a downwardly facing surface, the downwardly facing surface configured for abutment with the back scull rim of the toy figure head.

13. A toy figure system comprising:

a toy figure head including a first central coupling member, the first coupling member comprising a tubular wall with an internal space and an outer surface;

a top headwear item including a second central coupling member configured for cooperating with said internal space of the first coupling member; and

an intermediate headwear item including a connector ring configured for coupling to or encircling the outer surface of said first coupling member, the connector ring having:

a front portion configured for abutment against a rear side of the front face of the toy figure head, and

two side portions interconnecting the front portion and a back portion of the connector ring, the side portions provided with downwardly extending protrusions sized and shaped to complement the notches formed as indentations in side rims of the side walls of the toy figure head.

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