



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 145 750 A2**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
17.10.2001 Bulletin 2001/42

(51) Int Cl.7: **A63H 3/16, A63H 3/46**

(21) Application number: **01500001.1**

(22) Date of filing: **02.01.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**
Designated Extension States:
AL LT LV MK RO SI

(72) Inventors:
• **Fontanella Roig, Francisco**
08290 Cerdanyola del Valles, Barcelona (ES)
• **Corbero Ferrer, Elisabet**
08290 Cerdanyola del Valles, Barcelona (ES)

(30) Priority: **04.01.2000 ES 200000007**

(74) Representative: **Duran Moya, Luis-Alfonso et al**
DURAN-CORRETJER, S.L.,
Paseo de Gracia, 101
08008 Barcelona (ES)

(71) Applicants:
• **Fontanella Roig, Francisco**
08290 Cerdanyola del Valles, Barcelona (ES)
• **Corbero Ferrer, Elisabet**
08290 Cerdanyola del Valles, Barcelona (ES)

(54) **A doll which can be dismantled**

(57) The body (1) of the doll has, at its leg, arm and neck ends (3,4,5,6,7), housings (2) which permit the longitudinally adjustable and rotatable insertion of the head (12) and end portions of arms (10,11) and legs (8,9) by virtue of the existence, on these end portions, of respective rods (17) which can be fitted with gentle pressure and in an axially slidable and rotatable manner in the said housings of the body. Resilient elements (13) disposed in the respective housings of the ends of the body can receive the rods of the limbs and of the head in order to retain the rods gently axially, permitting rotation and axial displacement thereof.

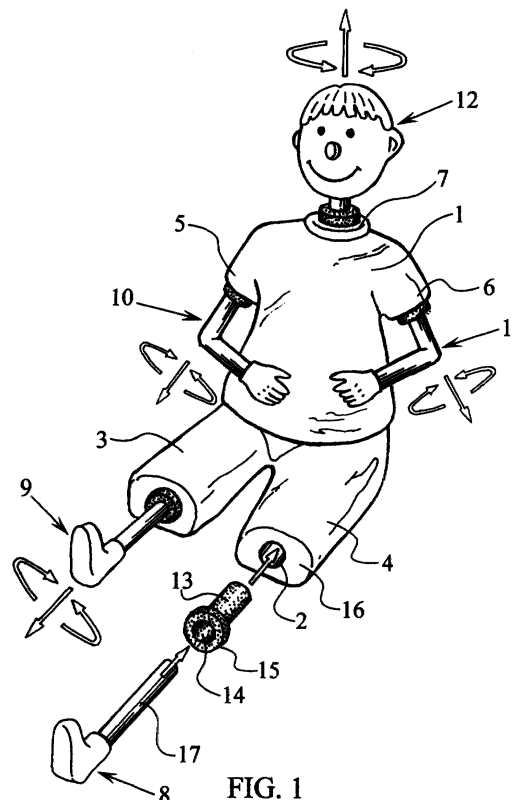


FIG. 1

EP 1 145 750 A2

Description

[0001] The present invention relates to a doll which can be dismantled and which has advantageous features that distinguish it from known dolls of a similar type.

[0002] Ornamental figures which represent human or animal forms, that is, figures such as dolls, have, as a general feature, mobility of the limbs and of the head such that they tend to imitate, albeit to a limited extent, the movements of the animate forms which they represent. For this reason, many dolls are known, in which this movement function is achieved with the use of very different devices. However, in general, the need to join and to articulate the limbs to the body of the doll, or to articulate portions of the limbs to one another, leads to considerable complexity in production and hence to a considerable increase in production costs.

[0003] The object of the present invention is to provide a doll representative of a human or animal form in which the limbs and the head are movable longitudinally, and also with a rotational movement about their axes of symmetry. For this purpose, the doll of the present invention has an element constituting the body, which is preferably moulded and is provided with holes for the insertion of the movable members representing the legs, arms and head these holes permitting the subsequent insertion of rigid elements constituting arms, legs and head simply by the fitting, with pressure, of resilient support bushings, so that the legs, arms and head are slidable and rotatable in the said bushings.

[0004] In a preferred embodiment, the above-mentioned bushings have a cylindrical shape, with a closed end and a collar which extends from its open end to act as a stop upon insertion in the body of the doll, enabling cylindrical ends of arms, legs and head to be received inside the said bushings and to be retained by gentle pressure of the said resilient bushings, which allow the said limbs and head to rotate about their own axes very easily.

[0005] With the construction indicated above, the limbs and the head of the doll can be fitted and removed easily, which adds an attractive feature to the use thereof.

[0006] For a better understanding, some drawings showing a preferred embodiment of the present invention are appended by way of non-limiting example.

[0007] Figure 1 is a perspective view of the doll with one of its limbs removed and showing the movements of the arms, legs and head.

[0008] Figure 2 is a perspective view of the doll, fully assembled.

[0009] Figure 3 shows the members making up a coupling of a limb or head according to the present invention.

[0010] Figure 4 shows the set of members of Figure 3 in the assembled position.

[0011] As can be seen in the drawings, the present

invention comprises a doll constituted by a body 1 made of a selected material and by a selected technique, preferably hollow, and having a series of housings, such as that indicated 2, at leg ends 3 and 4, arm ends 5 and 6, and a neck end 7, for the slidable and rotatable insertion of corresponding elements 8, 9, 10, 11 and 12 representing the movable portions of the legs, arms and head of the doll.

[0012] Each of the said elements 8 to 12 is fitted by the preliminary fitting of a bushing 13 of a shape complementary to that of the hole in which it is to be fitted, for example, the cylindrical hole 2, the bushing 13 of which is made of a resilient material, for example, of a foam material and has an internal orifice 14 and a collar 15 for establishing contact with the front face 16 of the corresponding limb.

[0013] The insertion of the bushing 13 in the corresponding hole 2 enables a rod 17 of a shape complementary to that of the orifice 14 of the bushing 13 subsequently to be retained in a manner such that the length of the corresponding limb or of the head can be varied by axial insertion thereof, or the said elements can rotate in the respective orifices of the resilient bushings such as the bushing 13.

[0014] In a preferred embodiment, the bushing 13 has a closed end 18 with an air-outlet hole 19 and is inserted in the corresponding end of the doll until the collar 15 establishes contact in abutment with the front face 16, as shown in the drawings.

[0015] As will be appreciated, the construction of the doll which can be dismantled according to the present invention permits inexpensive production of the doll and easy fitting and removal of the limbs and head, as well as longitudinal displacement and rotation of these elements, conferring a very attractive feature on the doll.

Claims

1. A doll which can be dismantled, of the type comprising a human or animal likeness with a body, a head, and limbs, **characterized in that** the body has, at its leg, arm and neck ends, housings which permit the longitudinally adjustable and rotatable insertion of the head and end portions of the arms and legs by virtue of the existence, on these end portions, of respective rods which can be fitted with gentle pressure and in an axially slidable and rotatable manner in the said housings of the body.
2. A doll which can be dismantled according to Claim 1, **characterized in that** resilient elements are disposed in each of the respective housings of the ends of the body and can receive the rods of the limbs and of the head in order to retain the rods gently axially, permitting rotation and axial displacement thereof.

3. A doll which can be dismantled according to Claim 2, **characterized in that** the resilient elements have a bushing-like structure, are made of a foam material, can be fitted in the holes in the ends of the body of the doll, and are provided internally with orifices which can receive and mate with slight pressure with the cylindrical rods of the limbs and head of the doll. 5
4. A doll which can be dismantled according to Claim 3, **characterized in that** each element made of resilient foam material has, at the end for the insertion of the rod of the limb or head of the doll, a collar which can abut the body in order to limit the insertion of the resilient element and, at the base, a displacement-limiting wall with air-outlet holes. 10 15

20

25

30

35

40

45

50

55

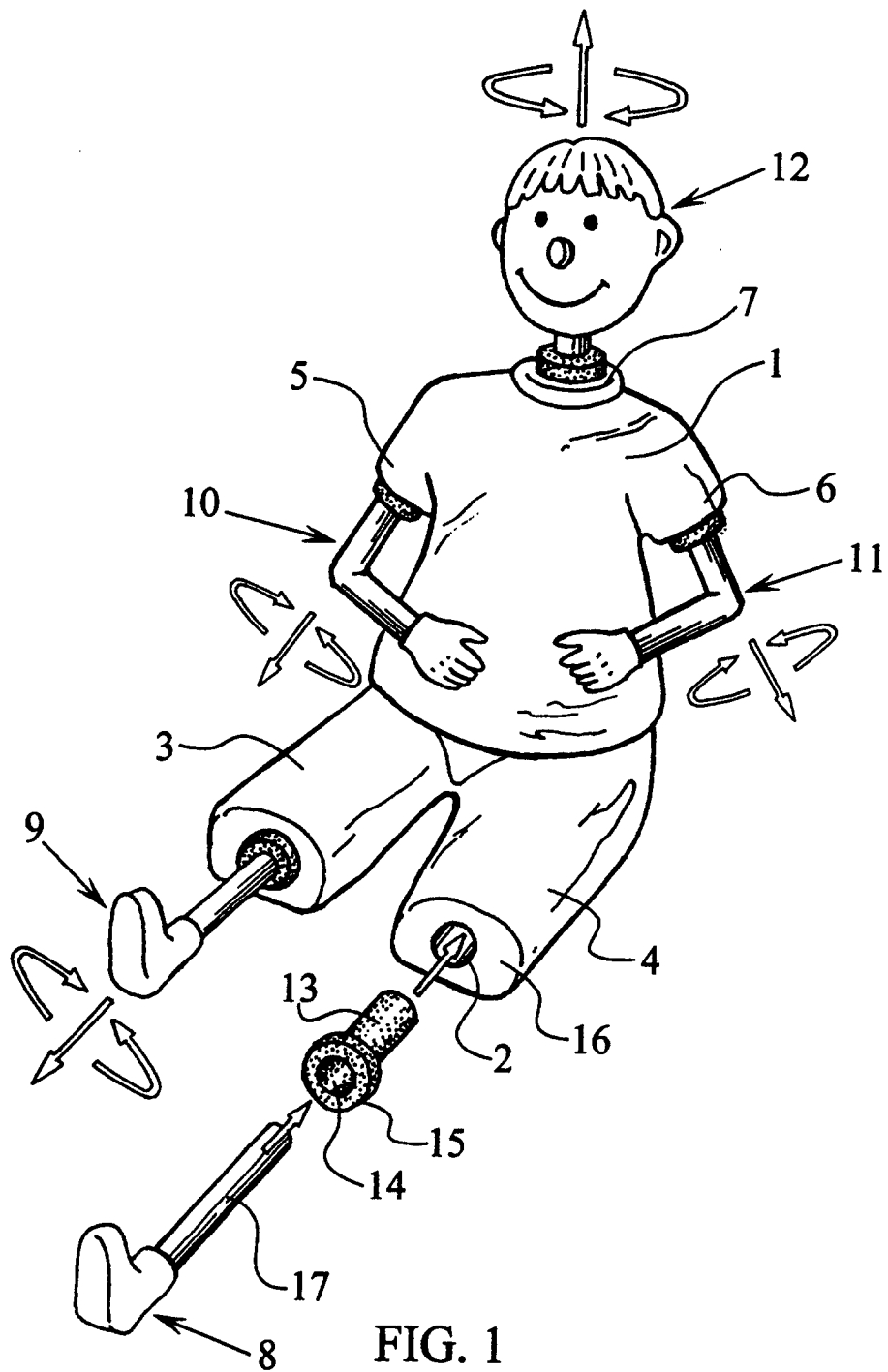


FIG. 1

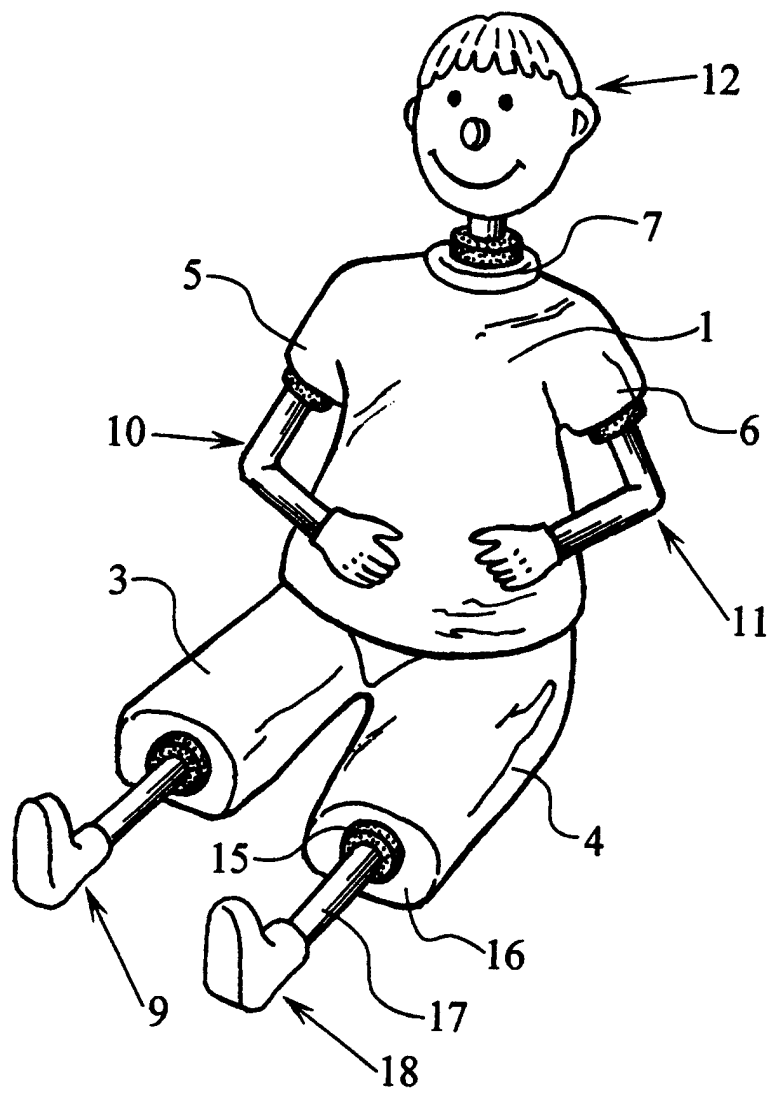


FIG. 2

