April 6, 1926. 1,579,367

H. E. HYMER

JOINTED FIGURE TOY

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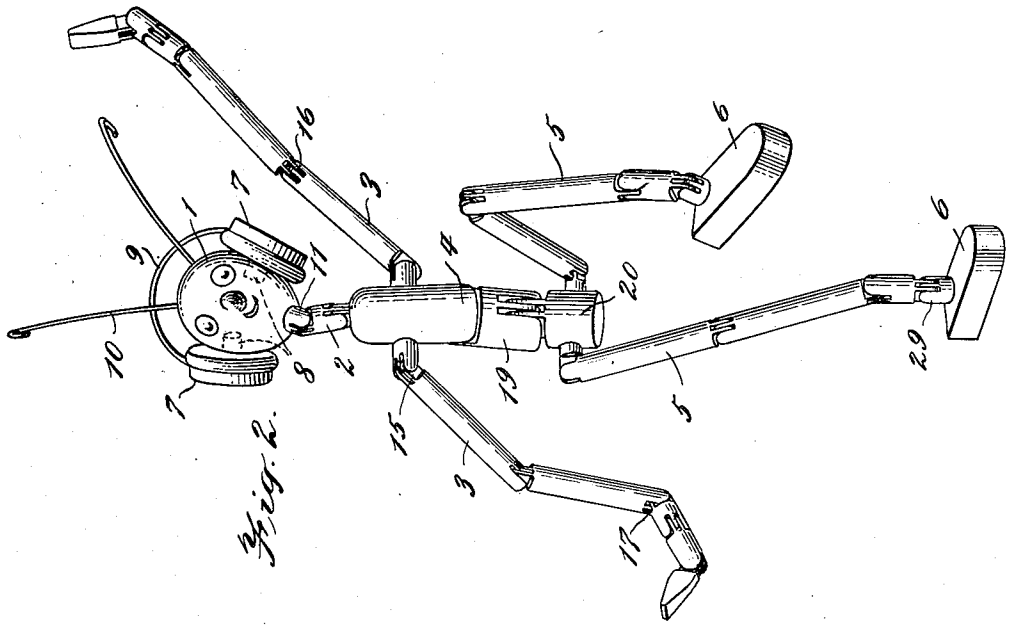

Fig. 2.

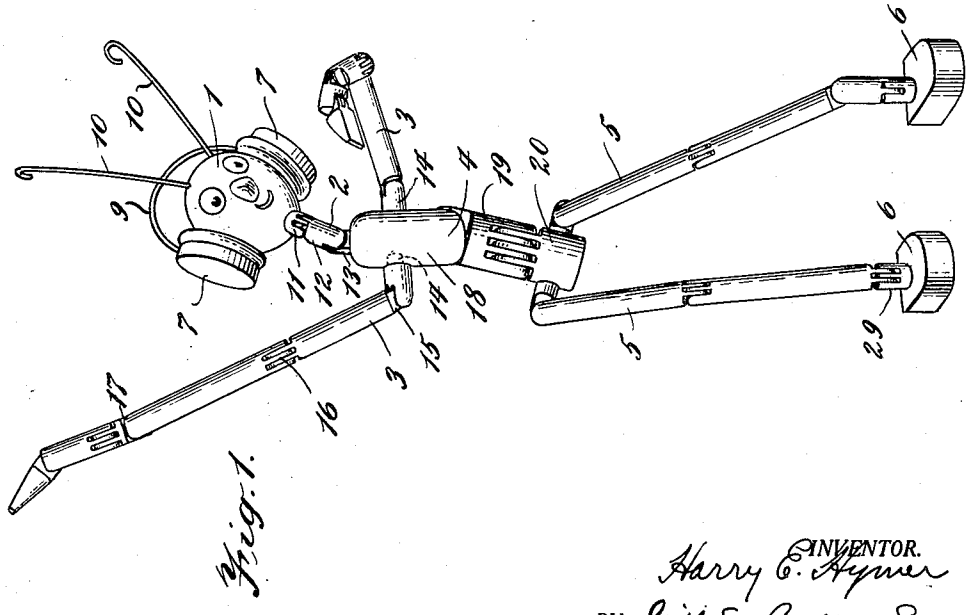

Fig. 1.

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Fig. 4.

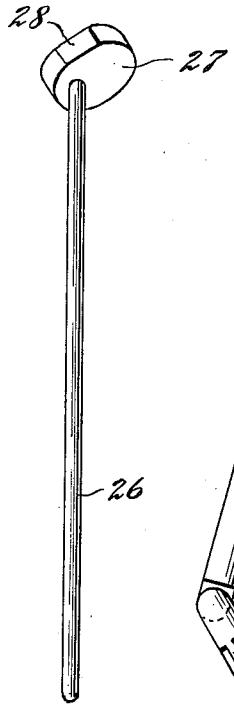


Fig. 3.

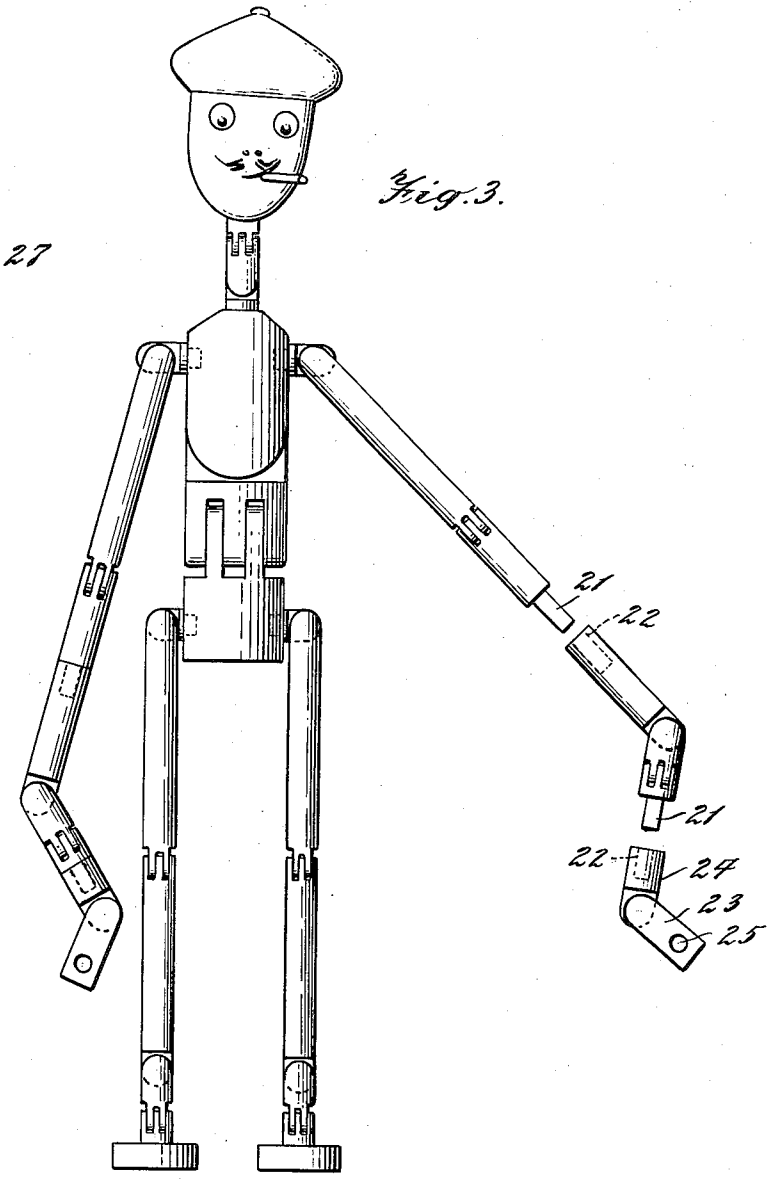
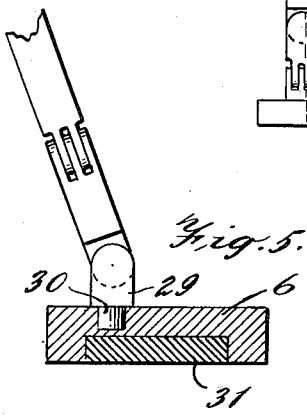


Fig. 5.



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Harry E. Hymer
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Patented Apr. 6, 1926. 1,579,367

UNITED STATES PATENT OFFICE.

HARRY E. HYMER, OF MAMARONECK, NEW YORK.

JOINTED FIGURE TOY.

Application filed May 14, 1923. Serial No. 638,705.

To all whom it may concern:

Be it known that I, HARRY E. HYMER, a citizen of the United States, residing at Mamaroneck, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Jointed Figure Toys, of which the following is a specification.

My invention relates to toys and particularly to figure toys although the principles thereof may be easily applied to animal toys.

Heretofore toys have been made in a great variety of forms and many complicated constructions have been devised, but so far as I know, no toy has yet been produced which has the variety of "expression" or flexibility possessed by toys embodying my invention. Furthermore, my toys are very simple in construction and inexpensive to make.

My invention will be better understood by reference to the following description taken in connection with the accompanying drawings in which Fig. 1 shows in elevation a toy embodying my invention; Fig. 2 shows the toy of Fig. 1 in a different position; Fig. 3 shows a view of a modified form of my invention; Fig. 4 shows a perspective view of a golf club and Fig. 5 shows a detail of the foot construction, partly in section.

Referring to the form of the invention shown in Figs. 1 and 2, the figure comprises the usual anatomical members of the human body, that is to say the head 1, neck 2, arms 3, torso 4, legs 5 and feet 6. The head may be of any desired shape or configuration. In the form shown it represents a radio enthusiast with the head phones 7 in position. The phones 7 are provided with pins, shown in dotted lines at 8, in Fig. 2. These pins enter corresponding sockets in the head and are thereby held in place by the pins and the connecting wire 9. Upstanding members, preferably wires 10, are also fastened in the head.

The neck 2 is composed of three members, 11, 12 and 13. The member 11 fits in a socket in the head and the member 13 fits in a socket in the torso. The member 12 connects the members 11 and 13 by a jointed connection so arranged that the member 11 together with the head may move in one plane and the member 12 together with the member 11 and the head may move in a plane substantially at right-angles to the plane of movement of the member 11. This construction provides a connection which may be compared to a universal joint and by reason of the combination of the movements in the two neck joints the head may be given any desired position. The head may also be rotated around the member 11 or the head and neck rotated in the torso so that the head may be rotated to any desired position.

The arms are made up of a plurality of sections which are joined together and arranged so that the adjacent sections swing in planes at right-angles to each other. The first member of each arm is placed in a socket in the torso and may be rotated therein to any desired position. The combination of the pivoted joint 14 of each arm and the joints such as 15, 16, 17, etc., makes it possible to place the arms and hands into any desired position to produce various expressions such, for instance, as those shown in Figures 1 and 2.

The torso is made up of a plurality of members. (In the modifications shown, three sections only are used). These members 18, 19 and 20 are joined so as to articulate in planes substantially at right-angles to each other. By reason of this arrangement the body of the toy may be placed in a great variety of positions, two of which are shown in Figs. 1 and 2. The leg members are constructed in a manner similar to the arms and are, therefore, susceptible of a great variety of positions.

Figure 3 shows a form of toy principally designed to carry out visually the various expressions and positions of a golfer. The principles of my invention are the same in this embodiment as in the embodiment shown in Figs. 1 and 2. In order to more completely exhibit the great variety of movements necessary in the golf swing, two pivoted joints are provided in each of the arms. These pivoted joints comprise pins 21 which fit into sockets 22 in the adjacent members. The hand 23 is joined to the member 24 and is provided with an opening 25 through which the shaft 26 of the golf club shown in Fig. 4 passes. This arrangement affords simple means for holding the club and for producing the various expressions necessary for the swing of the golfer. The club shown in Figure 4 comprises a shaft 26 and head 27 which head is provided with a flattened portion 28.

Fig. 5 shows a detail of a foot 6 of the toy. The foot comprises a member 6 attached to the leg by a pin 30. The foot is

"loaded" with a metal insert 31, preferably of lead. This construction of the feet adds stability to the toy and in that way aids in the production of the various expressions produced with the toy.

Any desired form of joint may be used between adjacent sections of the various members, but I have found that the joints provided with a plurality of articulating members are particularly satisfactory when it is desired to constantly change the articulated members. This is due partly to the fact that by providing a plurality of members a greater amount of friction is introduced, with the result that the joints will maintain the desired positions without undue pressure between the adjoining parts. This arrangement, therefore, not only gives more stability to the members of the toy when placed in the desired position, but also prolongs the life of the joints and, therefore, that of the toy. While I prefer the type of joint shown, I desire it to be understood that my invention is not to be limited to such joint as many other forms of joint may be substituted with success. My invention has many advantages resulting from the construction and arrangement shown in the drawings and heretofore described. Many changes may be made in the various parts of the device without departing from the spirit of my invention.

I claim:—

1. A toy consisting of a plurality of sections constituting the body member, a plurality of sections constituting each limb member, a head member and a plurality of sections constituting the neck member, said sections being joined together by joints arranged to articulate in longitudinal fixed planes at an angle to each other.

2. A toy consisting of a plurality of sections constituting the body member, a plurality of smaller sections constituting each of the limb members, the sections of each member being joined by tongue and groove joints, the adjacent joints of each member being arranged to articulate in fixed planes at right-angles to each other.

3. A toy consisting of a plurality of sections constituting the body member, a plurality of smaller sections constituting each of the limb members, the sections of each member being joined by tongue and groove joints, the adjacent joints of each member being arranged to articulate in fixed planes at right-angles to each other, the limbs being joined to the body member by pin and socket joints.

HARRY E. HYMER.