U. ITO.

WALKING DOLL.

APPLICATION FILED MAR. 19, 1921.

1,406,023. Patented Feb. 7, 1922.

Fig. 1.

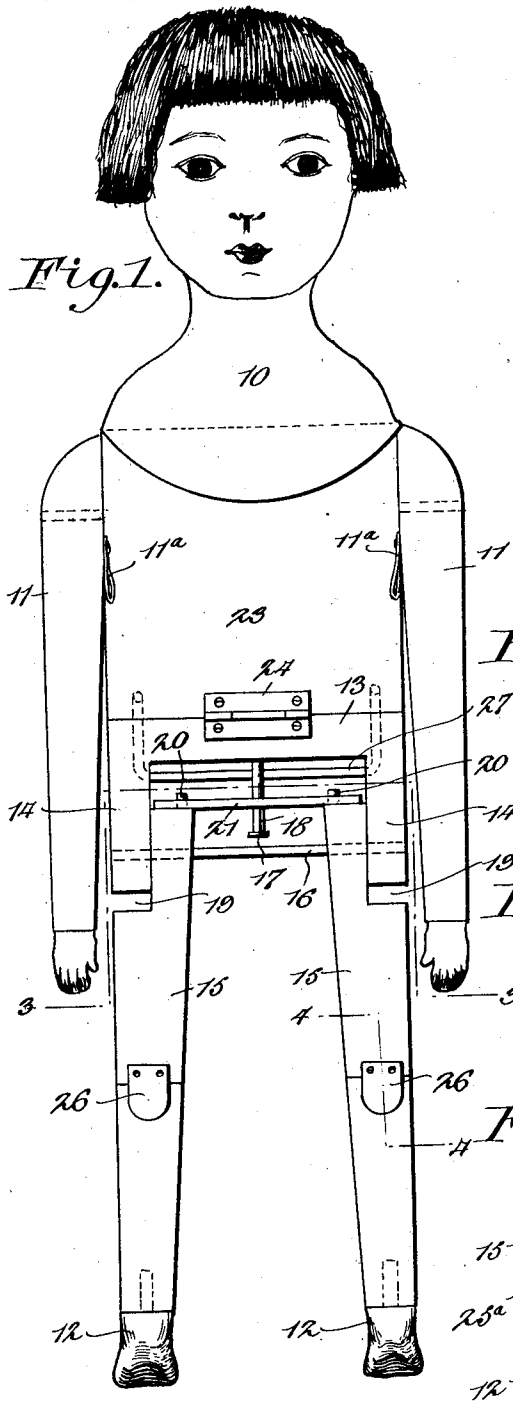


Fig. 2.

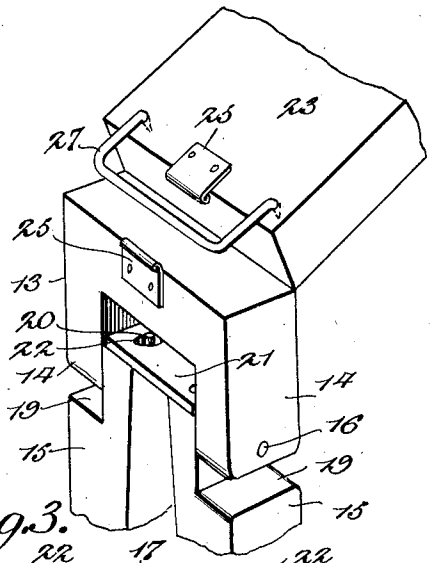


Fig. 3.

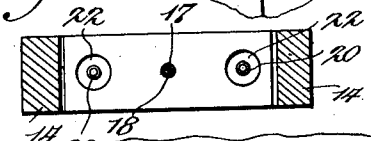


Fig. 5.

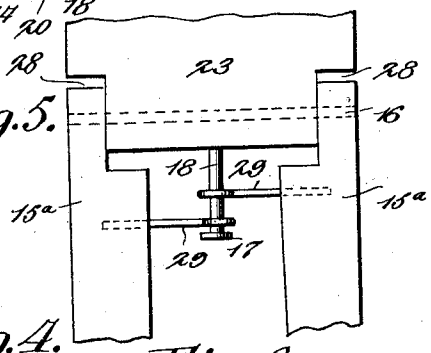


Fig. 4.

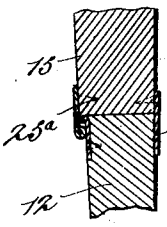
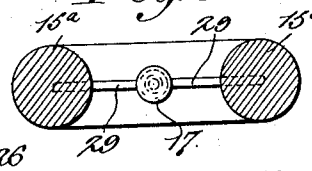


Fig. 6.



Umekichi Ito. INVENTOR

BY Victor J. Evans

ATTORNEY

WITNESS: J. W. Ely.

UNITED STATES PATENT OFFICE.

UMEKICHI ITO, OF NEW YORK, N. Y.

WALKING DOLL.

1,406,023. Specification of Letters Patent. Patented Feb. 7, 1922.

Application filed March 19, 1921. Serial No. 453,612.

To all whom it may concern:

Be it known that I, UMEKICHI ITO, a citizen of Japan, residing at Bronx, in the county of Bronx and State of New York, have invented new and useful Improvements in Walking Dolls, of which the following is a specification.

This invention relates to walking dolls and the principal object is to produce an article of this nature which shall be simple of construction, cheap to manufacture, and highly efficient for the purpose for which it is designed.

Another object is to provide improved and simplified means for effecting the relative movements of the legs.

Another object is to provide simplified means for limiting the extent of movement of the legs.

Another object is to provide a simplified joint for permitting the doll to sit down.

With these and other objects in view, the invention resides in certain novel features of construction and combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which:—

Figure 1 is a front view of a doll embodying the preferred form of my invention.

Figure 2 is a fragmentary rear view of the same showing the joint as partly open to permit seating of the doll.

Figure 3 is a detail view of the oscillatory walk-inducing bar.

Figure 4 is a detail sectional view taken substantially in line 4—4 of Figure 1.

Figure 5 is a front view of a doll provided with a second and cheaper form of my invention.

Figure 6 is a horizontal section on line 5—5 of Figure 4, looking up.

Like characters of reference refer to like parts in all views.

Referring to the drawing in detail, 10 represents the head, 11 the arms, and 12 the feet of a doll, all of which parts are of the non-breakable type and may be of any well known construction. These parts are usually purchased separately and assembled by the manufacturer. A box-like structure 13 has depending sides 14 to which the legs 15 are pivoted by a rod 16. Depending from member 13 is a nail or pin 17 on which is mounted a sleeve 18 of rubber or other soft material to eliminate noise when the doll is operated. The legs 15 are cut away at 19 so as to form a substantial continuation of members 14, and each carries at its upper end a pin 20. Pivotally mounted on sleeve 18 is a bar 21 which is provided with two enlarged apertures 22 through each of which projects a respective one of the pins 20. This construction will obviously operate so that as the body of the doll is moved forward with one foot on the floor, the other foot will be advanced to take a step, the length of the step being determined by the size of apertures 22.

The body portion of the doll is a block 23 which is hinged at 24 to the member 13, and normally maintained in alignment by two latches 25 secured respectively to members 13 and 23 and each comprising a plate of metal having its free end rolled. The coaction of these rolls normally holds 13 and 23 aligned but when considerable force is applied the spring of the catch is overcome permitting movement of member 23 on its hinge 24 to cause the doll to assume a sitting posture. A bail 27 is secured to member 23 in any desired manner and when the doll is in sitting posture, maintains the member 23 upright. Strips 11^a connect the upper portions of arms 11 with the body 23 so as to limit movement of the arms upwardly to the most advantageous position for effecting walking.

The legs are hinged at the knees and provided with catches 25^a similar to those at the hip joint. Pieces of leather 26 are tacked part way around the upper member of the legs at the knees extending normally over this joint, but when the doll is bent to a sitting posture this leather overlays the joint so as to hold the clothing in proper formation, the free margin of the leather being cut curved to the proper contour.

In the modified form shown in Figures 4 and 5, the members 13 and 23 are combined being formed of a single non-jointed block cut away at the lower corners at 28 to provide for the reception of the modified form of legs 15^a. The nail and sleeve 17 and 18 are as in the preceding form, but bar 21 is done away with and two screw eyes 29 are

screwed into the inner sides of the legs and the eyes threaded over sleeve 18 to limit the movements of the legs.

While I have described what I deem to be the most desirable embodiments of my invention, it is obvious that many of the details may be varied without in any way departing from the spirit of my invention, and I therefore do not limit myself to the exact details of construction herein set forth nor to anything less than the whole of my invention limited only by the appended claims.

What is claimed as new is:—

1. A doll comprising a body portion, a U-shaped frame mounted on said body portion, legs pivoted to the depending portions of said frame, a pin depending from the bight of said frame, pins extending from the upper ends of said legs, and a lever pivotally mounted on the first said pin and loosely engaging the pins of said legs.

2. A doll comprising a body portion, a U-shaped frame mounted on said body portion, legs pivoted to the depending portions of said frame, a pin depending from the bight of said frame, a sleeve of soft material mounted on said pin, pins extending from the upper ends of said legs, and a lever pivoted on said sleeve and loosely engaging the pins of said legs.

3. A doll having a body comprising two hingedly connected members, a catch on one of said members, a catch on the other of said members and co-operative with the first said catch, and a bail on one of said members movable from flat contact with the other of said members to a position for maintaining said doll in sitting posture.

4. A doll comprising a body member, a leg supporting member hingedly secured to said body member, a latch comprising two metal plates each having its free edge rolled and each secured to a respective one of said members, and a U-shaped bail for holding said body member in erect position when said doll is in sitting posture.

5. A doll comprising a body member, a leg supporting member hingedly secured to said body member, a latch comprising two metal plates each having its free edge rolled and each secured to a respective one of said members, a U-shaped bail for holding said body member in erect position when said doll is in sitting posture, two piece legs secured to the second said member, and aprons secured over the joints of said legs as and for the purpose set forth.

In testimony whereof I have affixed my signature.

UMEKICHI ITO.