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G. EYRING

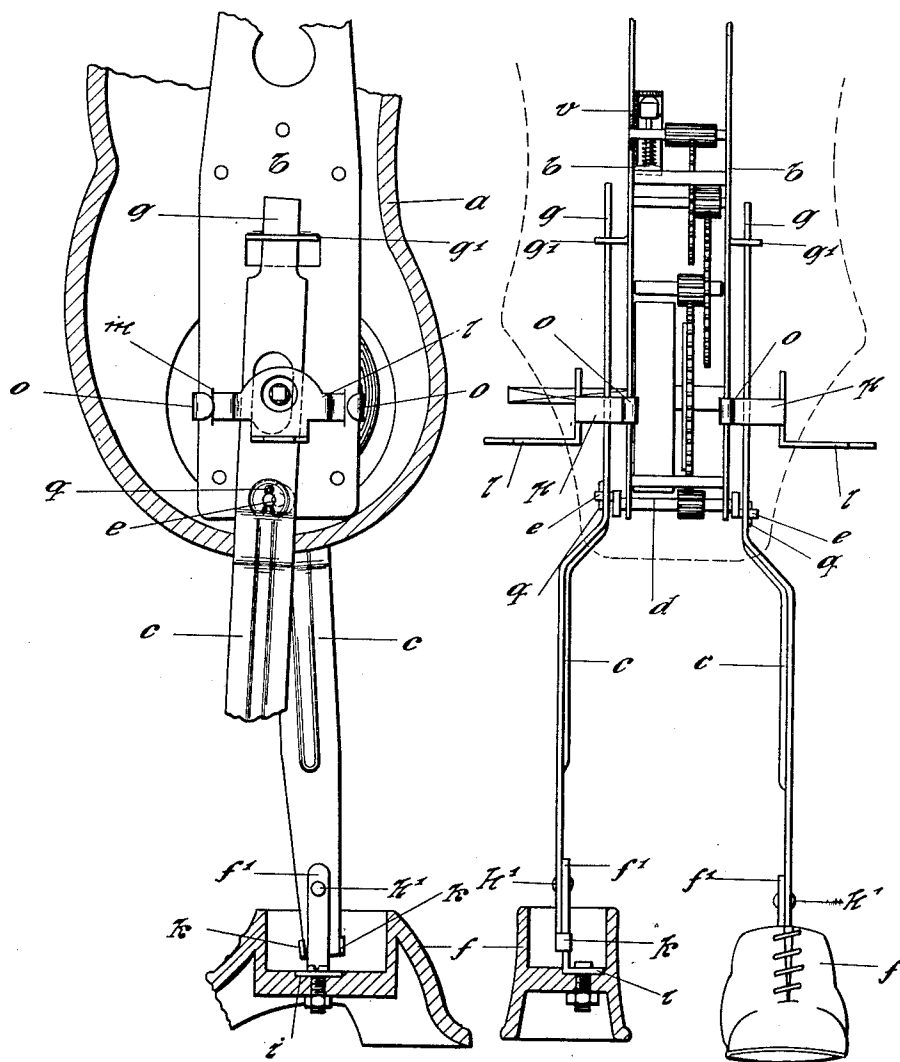
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MECHANICAL TOY FIGURE

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Fig. 1

Fig. 2



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MECHANICAL TOY FIGURE.

Application filed December 16, 1927, Serial No. 240,580, and in Germany January 11, 1927.

This invention relates to a mechanical toy figure executing step motions. With the devices hitherto known the leg members of such figures are moved by means of eccentrics arranged on a driven axle in combination with special guiding members located on both sides of the frame and connected with suitably adapted slide members, guiding the leg members with respect to their walking direction.

There is no doubt that this arrangement of leg members entails an intricate construction which considerably increases the manufacturing price.

According to my present invention these guides with slide members are avoided. The leg members are made in one piece and guided directly by slotted brackets arranged laterally on the frame, said brackets being stamped out of the walls of the frame.

Further the connection of the boots at the lower ends of the leg members is effected without interposing springs, whereby a better walking motion is obtained thus approximating the natural human walk as far as possible. The boots are each cast in one piece and any further auxiliary connecting means are avoided so that the manufacture is greatly simplified.

The accompanying drawing shows by way of example a mechanical toy figure according to my invention. Fig. 1 is a longitudinal section through the toy figure body showing the inner mechanism in side elevation and in the lower part partly in section; Fig. 2 is a front elevation partly in section.

The mechanical toy figure consists of a body *a*, in which is arranged the frame *b* carrying the driving mechanism for the leg members *c*, which are attached to eccentrics *e* fixed at both outer ends of a cross axle *d* driven by the said mechanism. According to my invention the leg members *c* are made in one piece, receiving on their lower ends the movably attached boots *f* and having on

their upper ends reduced projections *g*, which are guided by the slots of laterally bent brackets *g'* stamped out of the frame walls to form right angles with the latter. On account of the fact that the leg members *c* with their reduced projections *g* are made in one piece forming in such a manner slide guides, the guiding means hitherto known and usually connected in a movable manner with the upper end of the leg members are avoided. On the lower ends of the leg members are attached in articulate manner the boots *f*—each of which is cast in one piece—and connected on the one side with the leg members by means of intermediate pieces *f'* arranged on the lower ends of the leg members on pins *h'* and on the other side by means of a bracket *i* bent at right angles. On the lower end of the leg members *c* are provided lateral stops *k* limiting the movement of the intermediate pieces *f'*.

The supporting means *l* for the trimming around the leg members are adapted to form a rigid connection with the frame *b*. For this purpose the side walls of the frame are provided with slots *m* receiving the plugs *o* of the bridge *p* arranged on the supporting means *l*, the plugs *o* being bent outwardly as to ensure a rigid connection.

The pair of leg members *c* is supported by means of eccentrics *e* and is secured in its position by aid of split pins *q* passing through the holes of the eccentric axle, the legs of the split pins being bent over as usual.

The driving mechanism is provided with an adjustable regulating device *v* for ensuring a uniform walking movement of the toy figure.

What I claim is:

A mechanical toy figure having leg members driven by a mechanism, comprising in combination boots—each of which is cast in one piece—attached movably at the lower

ends of said leg members, intermediate
pieces fixed on the one side to the lower ends
of said leg members and adapted to engage
on the other side the said boots, pins con-
5 necting movably the said intermediate pieces
with the lower ends of said leg members,
brackets bent at right angles on the lower
ends of said intermediate pieces, and adapt-
ed to carry said boots, lateral stops formed
10 on the lower ends of said leg members and
adapted to limit the movement of said inter-
mediate pieces.

In testimony whereof I affix my signa-
ture.

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GEORG EYRING.

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