(No Model.)

# J. FALLOWS.

## MECHANICAL TOY.

No. 346,586. Patented Aug. 3, 1886.

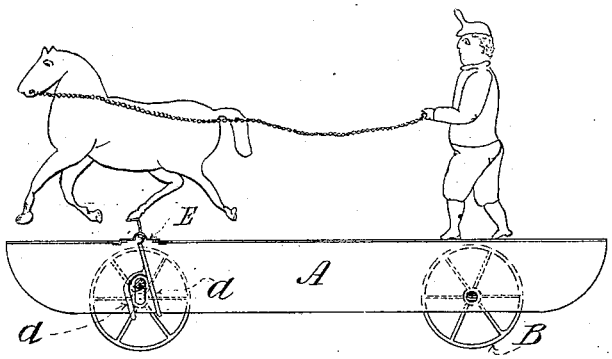


Fig. 1

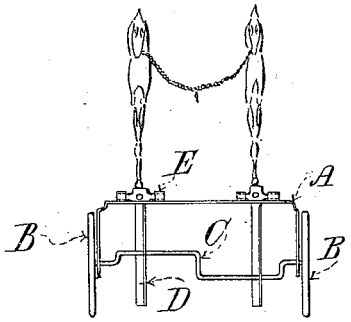


Fig. 2

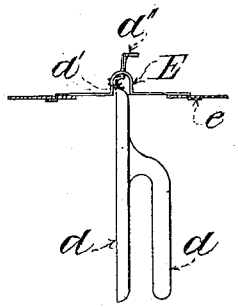


Fig. 3

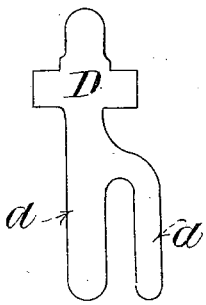


Fig. 4

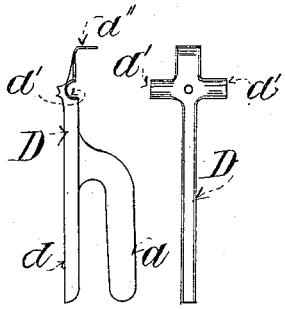


Fig. 5

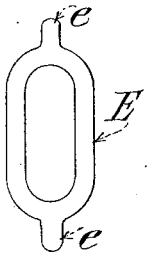


Fig. 6

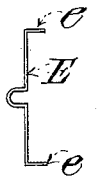


Fig. 7

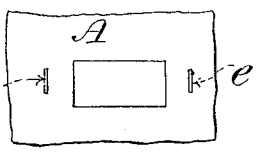


Fig. 8

WITNESSES:

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by his attorney

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# UNITED STATES PATENT OFFICE.

JAMES FALLOWS, OF PHILADELPHIA, PENNSYLVANIA.

## MECHANICAL TOY.

SPECIFICATION forming part of Letters Patent No. 346,586, dated August 3, 1886.

Application filed November 12, 1885. Serial No. 182,508. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES FALLOWS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Mechanical Toys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to mechanical tin toys that have figures of animals, &c., attached to or mounted thereon; and the object of my improvements is to construct and attach to the body of the toy, without the use of solder, a cheap, strong, and simple device that will give the figures a rocking or trotting motion when the toy is rolled along the floor.

In the accompanying drawings, Figure 1 is a longitudinal section through the body of a toy having my rocking attachment thereon. Fig. 2 is a front or end elevation of the same. Fig. 3 is a view of the rocker and a section of the platform, showing the manner of securing the rocker to the toy. Fig. 4 is a view of the blank form from which the rocking attachment is made or formed up. Fig. 5 shows the rocker formed up ready for use. Fig. 6 is a view of the blank from which the cap securing the rocker to the body or platform of the toy is formed. Fig. 7 shows the bent cap ready for use. Fig. 8 shows the section of the body or platform to which the rocker is attached.

A is the body or platform of the toy, which is stamped up from sheet-tin, and formed into any desired shape or pattern.

B B are the wheels supporting the body.

C is a double-crank axle.

D is the rocker attachment formed from a single piece of sheet metal.

The blank rocker is first cut by a suitable die in the shape shown in Fig. 4, after which it is placed in another die and formed or bent into the shape shown in Fig. 5.

*d d* are the arms or levers of the rocker, between which the crank of the axle revolves.

*d' d'* are semicircular ears or projections forming the shaft or bearing for the rocker D.

*d''* is the pedestal upon which the image is secured.

E is the cap forming the journal-box for the bearings *d' d'* of the rocker D. This blank cap E is first cut from a sheet of metal into the shape shown in Fig. 6, and afterward shaped or bent up as shown in Fig. 7.

*e e* are lugs formed on either side of the journal-cap, by means of which the cap and rocker are secured in place.

*e' e'* are slots in the platform to allow the lugs *e e* to be inserted and bent over, as shown in Fig. 3. The bearings *d' d'* of the rocker D rest upon the top surface of the platform A, and are held in position by the journal-cap E, which fits over the said bearings.

If desired, instead of forming the rocker D with the ears or projections *d' d'*, the top of the rocker may be bent over and around so as to form a tube, through which a supporting-wire may be inserted.

The various parts being constructed as described and put together as shown in Figs. 1, 2, and 3, a rocking or trotting motion is given to the images by the revolving of the crank-shaft C as wheels B are moved over the floor.

It will be readily seen that when the rocking attachment D is made, in the manner herein described, from a single piece of sheet metal formed or bent up into the shape shown, it can be easily and cheaply made, requiring no soldering, either in its construction or attachment to the body or platform of the toy.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a mechanical toy, the crank-axle C, operated by any suitable mechanism, in combination with the platform A and rocker D, said rocker being made from a sheet-metal blank cut and bent so as to form upon the upper part thereof a bearing for pivoting upon the platform, and having the fork *d d*, one arm of which is bent at right angles to the plane of the bearing, substantially as described.

2. In a mechanical toy, the crank-axle C and wheel or wheels B, in combination with the platform A and rocker D, said rocker being made from a sheet-metal blank cut and bent

so as to form upon the upper part thereof a bearing for pivoting upon the platform, and having the fork *d d*, one arm of which is bent at right angles to the plane of the said bearing, substantially as described.

3. In a mechanical toy, the crank-axle C and wheel or wheels B, in combination with the platform A and rocker D, said rocker being made from a sheet-metal blank cut and bent so as to form the arms or bearings *d' d'* and the fork *d d*, one arm of which is bent at right angles to the plane of the said bearings, all operating substantially as set forth.

4. The combination of the platform A, rocker D, having side lugs or ears, *d' d'*, the cap E, having the attaching-lugs *e e*, the crank-axle C, and wheel or wheels B, substantially as and for the purpose described.

5. The combination of the rocker D, made of a single piece of sheet metal and fitting over an axle-crank, the journal-cap E, having lugs *e e*, and the platform A, having the slots *e' e'*, all arranged substantially as shown.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES FALLOWS.

Witnesses:
OTIS EGAN,
THOMAS D. MOWLDS.