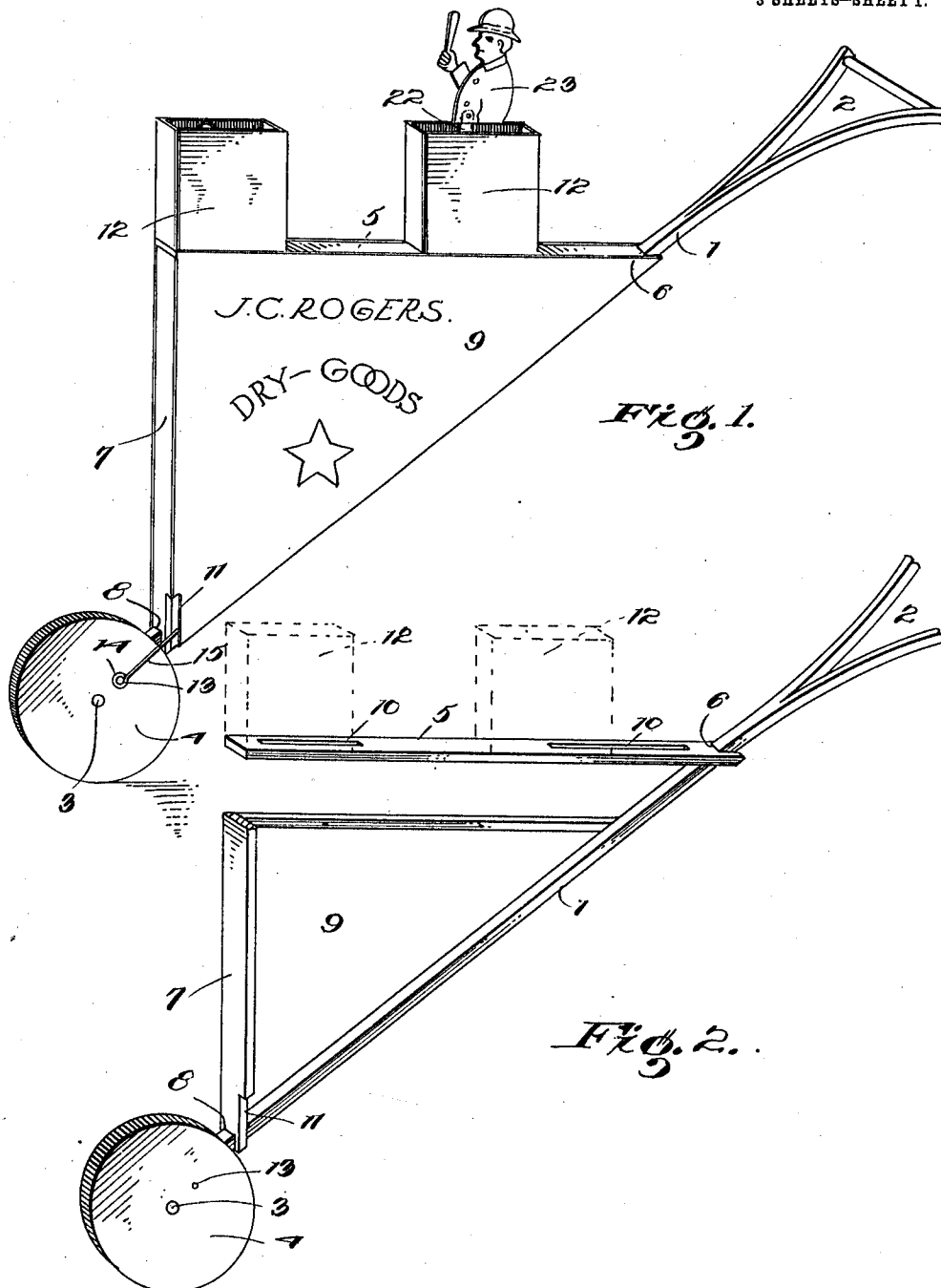


1,004,440.

C. E. KOESTER, JR.
MECHANICAL TOY.
APPLICATION FILED OCT. 29, 1910.

Patented Sept. 26, 1911.

3 SHEETS-SHEET 1.



Witnesses
J. M. L.
H. J. Anderson

Inventor
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By *E. C. Brown*
his Attorney.

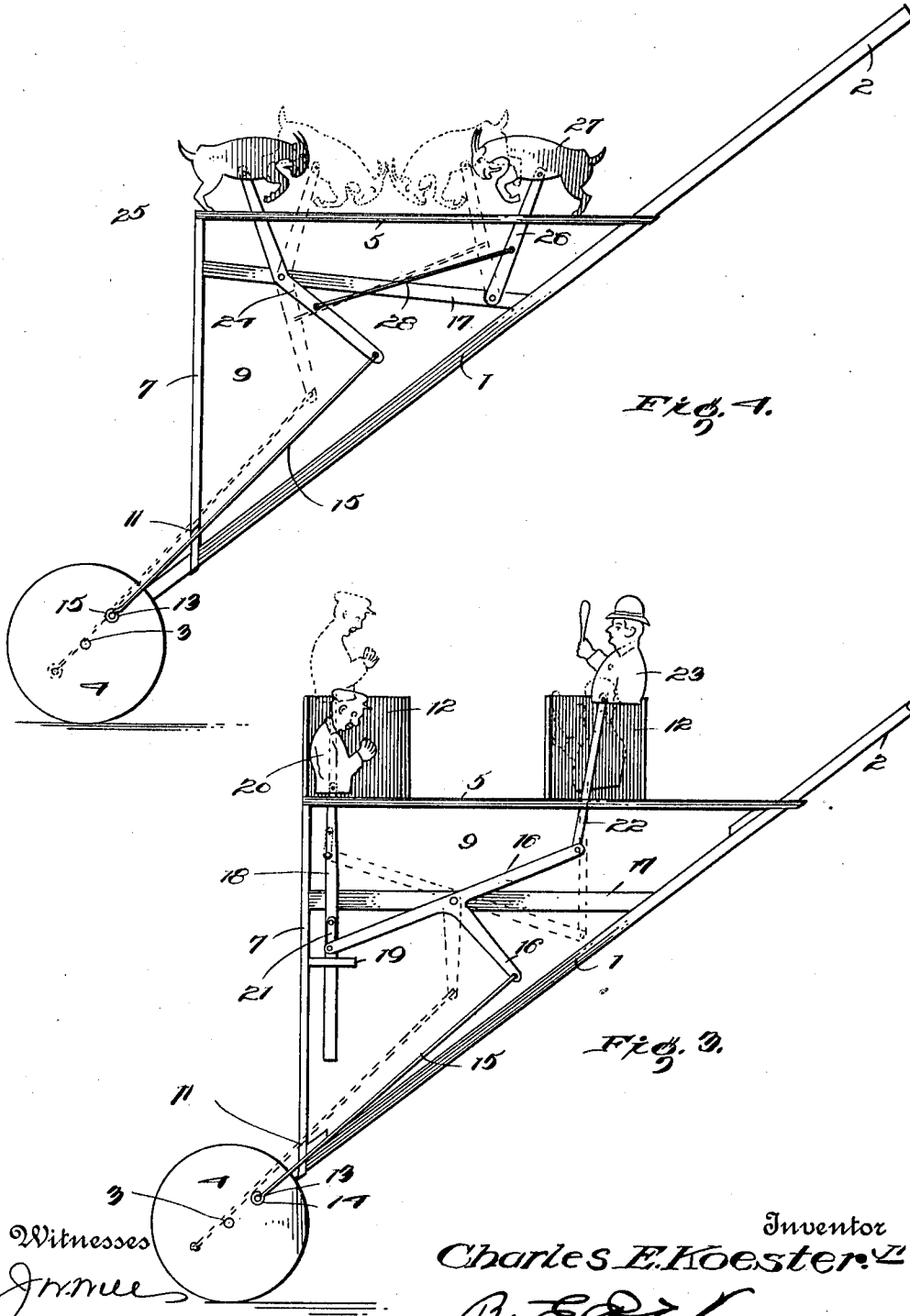
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3 SHEETS—SHEET 2.



Witnesses
J. M. Mue
H. J. J. J. J.

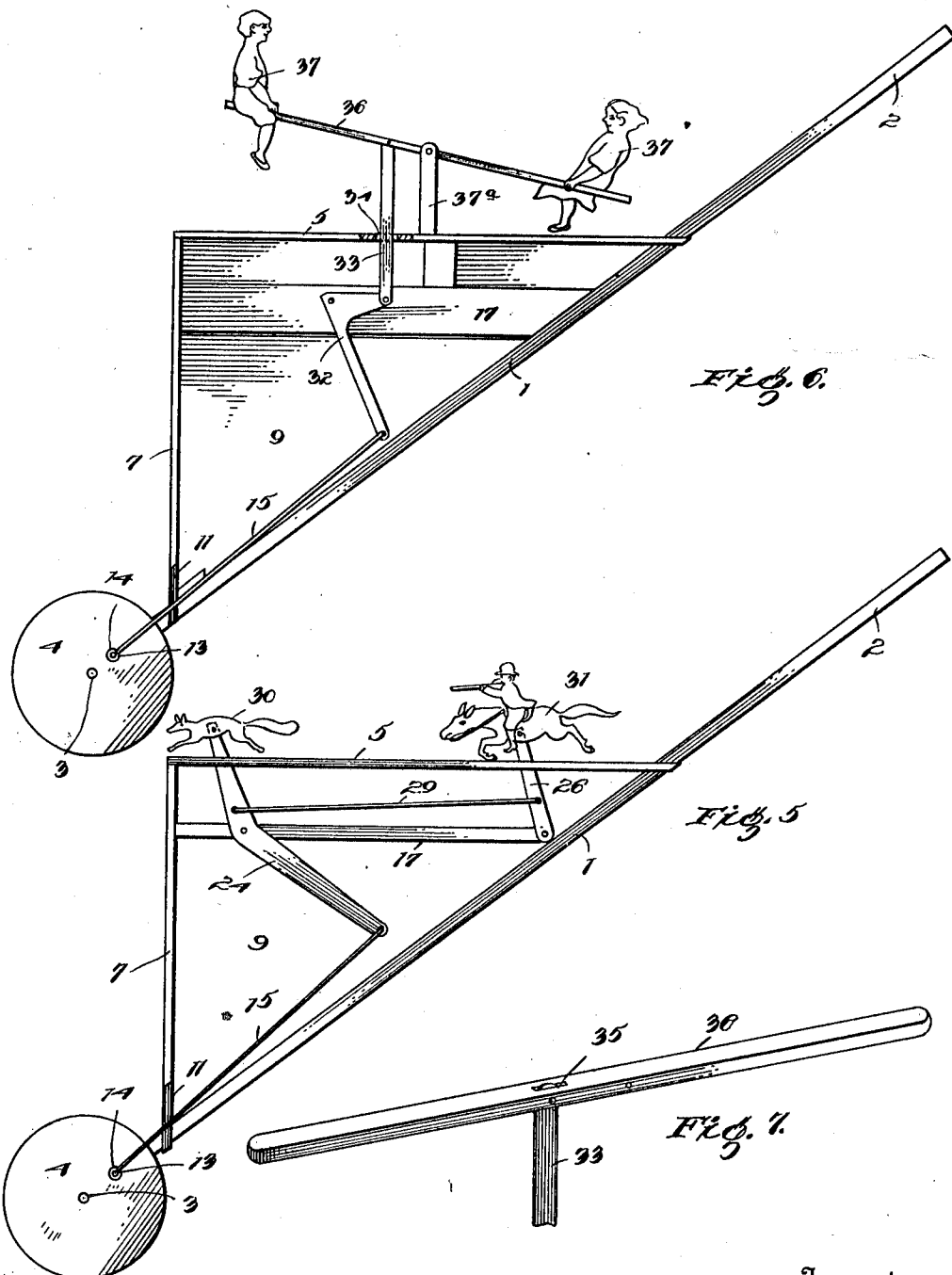
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3 SHEETS-SHEET 3.



Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES E. KOESTER, JR., OF ESTERO, FLORIDA.

MECHANICAL TOY.

1,004,440.

Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed October 29, 1910. Serial No. 589,729.

To all whom it may concern:

Be it known that I, CHARLES E. KOESTER, Jr., a citizen of the United States, residing at Estero, in the county of Lee and State of Florida, have invented certain new and useful Improvements in Mechanical Toys, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to trundling toys, and the principal object of the same is to provide a toy of the character stated in which animated figures are displayed in an amusing and instructive manner.

In carrying out the objects of the invention generally stated above, it will be understood, of course, that the essential features thereof are necessarily susceptible of changes in details and structural arrangements, certain preferred and practical embodiments of which are shown in the accompanying drawings, wherein:—

Figure 1 is a perspective view of the toy. Fig. 2 is a similar view, the casing being shown separated and the figure operating mechanism being omitted. Fig. 3 is a view in side elevation of the toy shown in Fig. 1, one of the sides of the casing and the toy housings being removed to expose the figures and the means for operating the same. Fig. 4 is a view similar to Fig. 3 but showing figures arranged to imitate a fight between animals. Fig. 5 is another similar view in which the figures imitate an animal hunt. Fig. 6 is another view similar to Fig. 3 in which the figures imitate children on a see-saw. Fig. 7 is a detail perspective view of the see-saw shown in Fig. 6.

Referring to the accompanying drawings by numerals, and more particularly to the form of the invention shown in Figs. 1, 2 and 3 thereof, it will be observed that the improved trundling toy comprises an elongated supporting staff 1 the free end of which is provided with a handle 2. Said handle has been shown as formed by bifurcating the said free end and connecting the members thereof by a transverse bar which forms a handgrip, but it is to be understood that the invention is not limited to this type of handle. The other end of staff 1 is provided with a laterally projecting stub shaft 3 which forms an axle for the roller or wheel 4. A triangular casing is provided for inclosing the mechanism which operates the figures, said casing comprising a flat

cover 5 that has one end provided with a notch 6 which straddles the upper portion of the staff 1, a flat front bar 7 the upper end of which is suitably fastened to the forward end of cover 5 and the lower end of which is provided with a notch 8 that straddles the lower portion of staff 1, and the flat sides 9. The cover 5 is provided with centrally located longitudinal slots 10, one being at each end portion thereof. The front bar 7 and one of the flat sides 9 are complementally recessed at the forward lower corner to provide an opening 11. Housings 12 are carried by the upper surface of the cover 5, said housings being arranged over the slots 10. The roller 4 is provided with an eccentric pivot stud 13 on which the end eye 14 of a pitman 15 is mounted. Said pitman enters the casing through the opening 11 and is pivotally connected to the free end of a central pendent arm 16^a projecting from a rocking lever 16 that is pivotally mounted on a horizontal bar 17 that extends longitudinally of the said casing. An elongated vertical rod 18 extends through a guide 19 projecting laterally from the inner surface of the front bar 7. Said rod 18 also extends through the forward slot 10 of cover 5 and into the forward housing 12 and is pivotally connected to the base of the representation of a human figure 20. Rod 18 has an intermediate pivotal link connection 21 with the forward end of lever 16. A rod 22 has one end pivotally connected to the rear end of lever 16, said rod extending through the rear slot 10 and into the rear housing 12 and is pivotally connected to the representation of a human figure 23. In this form of the invention, the figure 23 is made to imitate a policeman, and the figure 20 represents a person the policeman is endeavoring to capture. It will be seen that as the roller 4 is revolved, the pitman 14 rocks lever 16 which reciprocates rods 18 and 22 so that the figures 20 and 23 are alternately projected above the housings 12.

In Fig. 4, a rocking lever 24 is pivotally mounted on bar 17 and has its pendent end pivotally connected to pitman 15. The upper end of lever 24 projects through the forward slot of cover 5 and is pivotally connected to the representation of a goat 25. A second rocking lever 26 has its lower end pivotally mounted on bar 17 and said bar projects through the rear slot of cover 5 and has its upper end pivotally connected to

the representation of a goat 27. A link 28 has one end pivotally connected to lever 24 below the bar 17 and its other end pivotally connected to lever 26 above bar 17. In this form of the invention it will be seen that as roller 4 is rotated, the pitman 14 rocks levers 24 and 26 so that the goats will be alternately projected toward each other and separated, in imitation of a goat fight.

10 In Fig. 5 the rocking levers 24 and 26 are connected above the bar 17 by a link 29 so that said levers are rocked in unison and in the same direction. One lever carries the representation of a fox 30 and the other the representation of a mounted horseman 31. 15 In this form of the invention it will be seen that the figures, when actuated represent a fox hunt.

In Fig. 6, the bar 17 has a bell crank lever 20 32 pivotally mounted thereon. The elongated pendent arm of said lever is pivotally connected to the pitman 15. The short arm of lever 32 is pivotally connected to the lower end of a rod 33 that projects through a slot 34 in cover 5 and has its projected upper end pivotally mounted in a slot 35 25 formed in a rocking bar 36 that is pivotally connected to the upper end of a standard 37^a projecting from cover 5. Bar 36 represents a see-saw and it will be clear that as rod 33 is actuated by pitman 14, rod 33 will be reciprocated and thereby impart a rocking movement to bar 36. Said bar 36 has 30 figures 37 on its ends which represent children. 35

From the foregoing it will be seen that this invention provides simple means whereby the figures are actuated in a pleasing and interesting manner, and that the invention 40 can be employed as an advertising device, in which case the flat sides of the casing can be used for displaying the advertisements.

What I claim as my invention is:—

1. A toy comprising a staff, a roller at one end thereof, a casing carried by said staff 45 and provided with slots in the top thereof, said casing also provided with a forward opening, housings carried by the top of said casing over said slots, a rocking lever pivotally mounted in said casing and provided 50 with a pendent arm, a pitman eccentrically connected to said roller and entering said casing through the forward opening and engaging the arm of said lever, rods pivotally connected to the ends of said lever and entering said housings through said slots, and 55 figures carried by said rods.

2. A toy comprising a support, a casing carried thereby and provided with slots in the top thereof, housings carried by said casing over said slots, rods slidable through 60 said slots, a rocking lever pivotally connected to said rods, display means carried by said rods, and means for rocking said lever.

3. A toy comprising a staff, a roller at 65 one end thereof, a casing carried by said staff and provided with slots in its top, a supporting bar extending longitudinally of said casing in spaced parallel relation to the top thereof, a rocking lever pivotally 70 connected to said bar, operating rods pivotally connected to the end of said rocking lever and projecting through the slots in the top of the casing, display means carried by the projected portions of said rods and means 75 actuated by said roller for rocking said lever to reciprocate said rod.

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

CHARLES E. KOESTER, JR.

Witnesses:

WALTER F. BARTSCH,
L. W. BUBBETT.