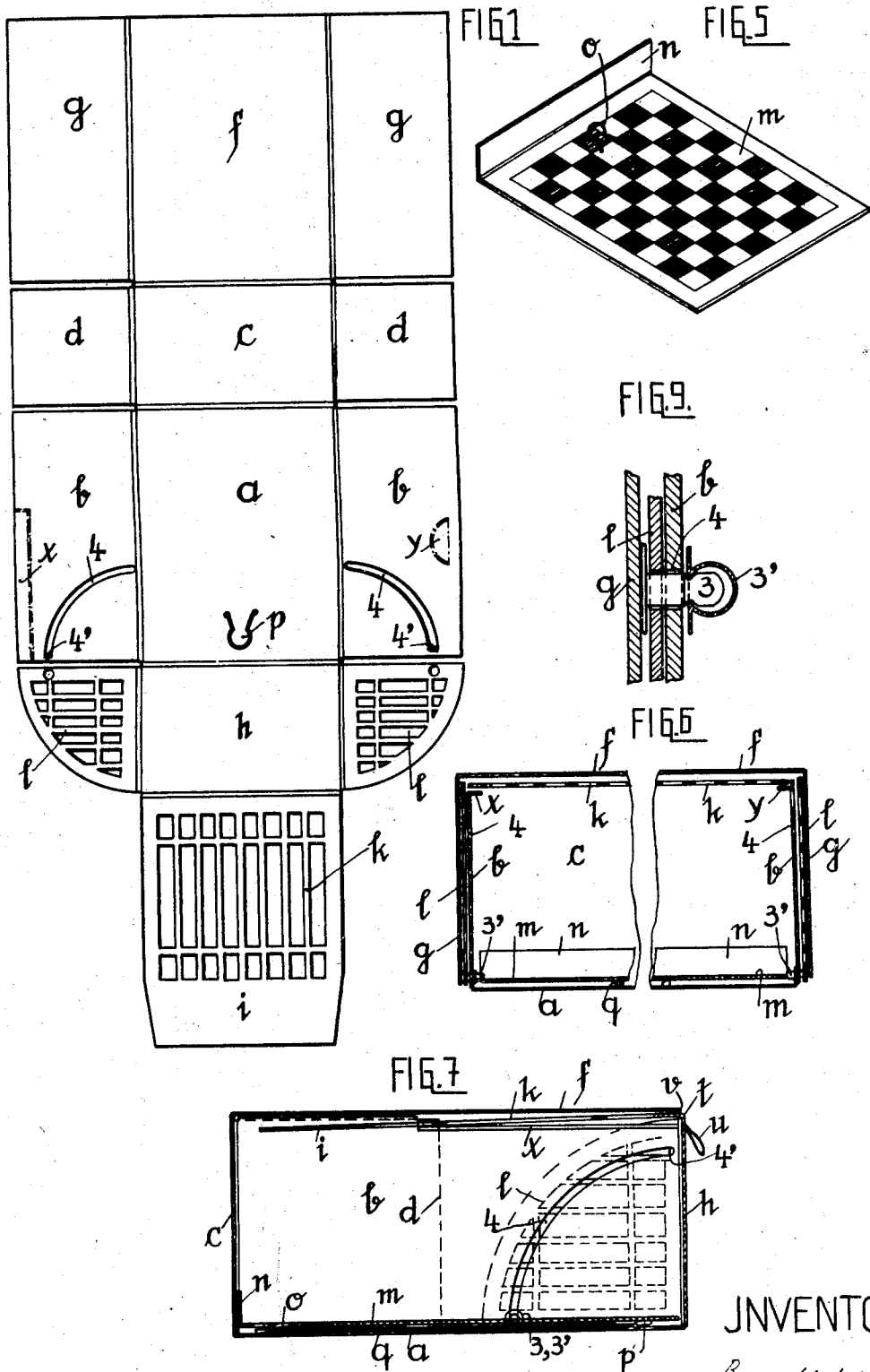


June 24, 1930.

B. SCHUBART  
BOX WITH FOLDING LID  
Filed Oct. 6, 1928

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3 Sheets-Sheet 1



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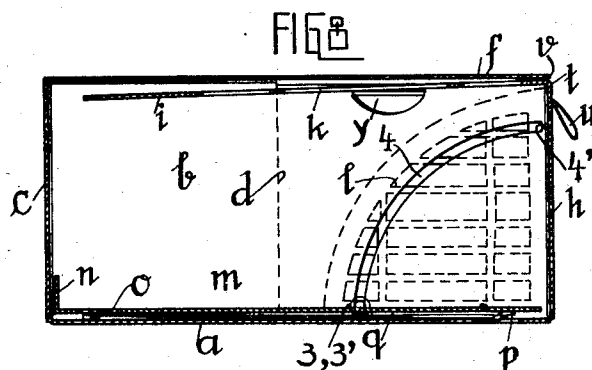
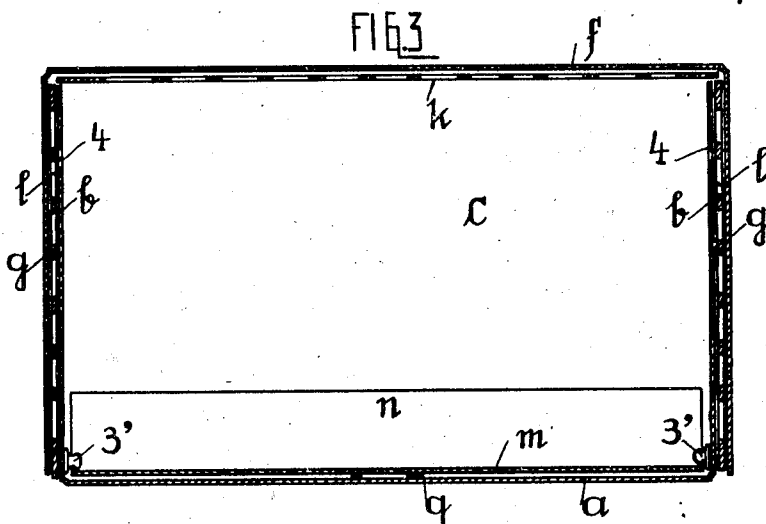
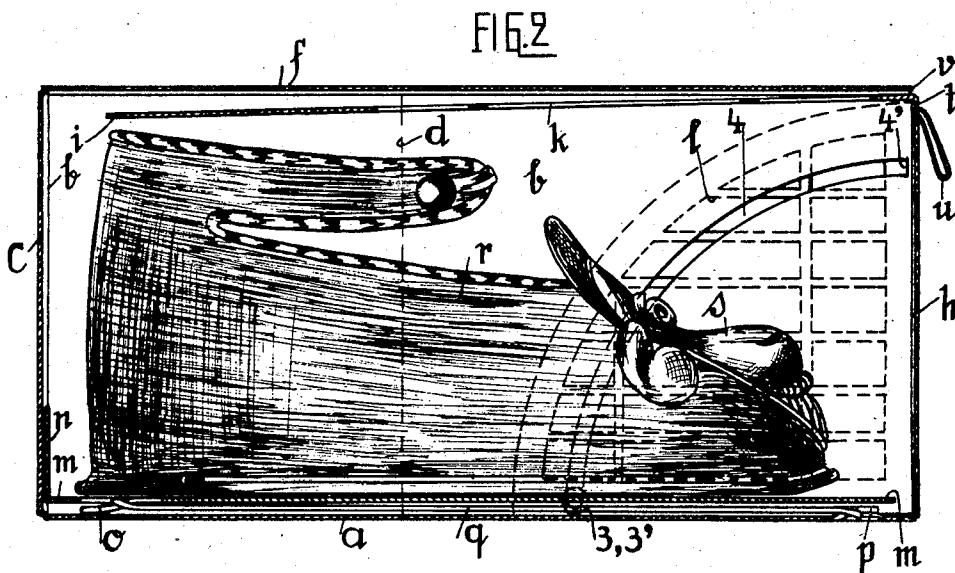
B. SCHUBART

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BOX WITH FOLDING LID

Filed Oct. 6, 1928

3 Sheets-Sheet 2



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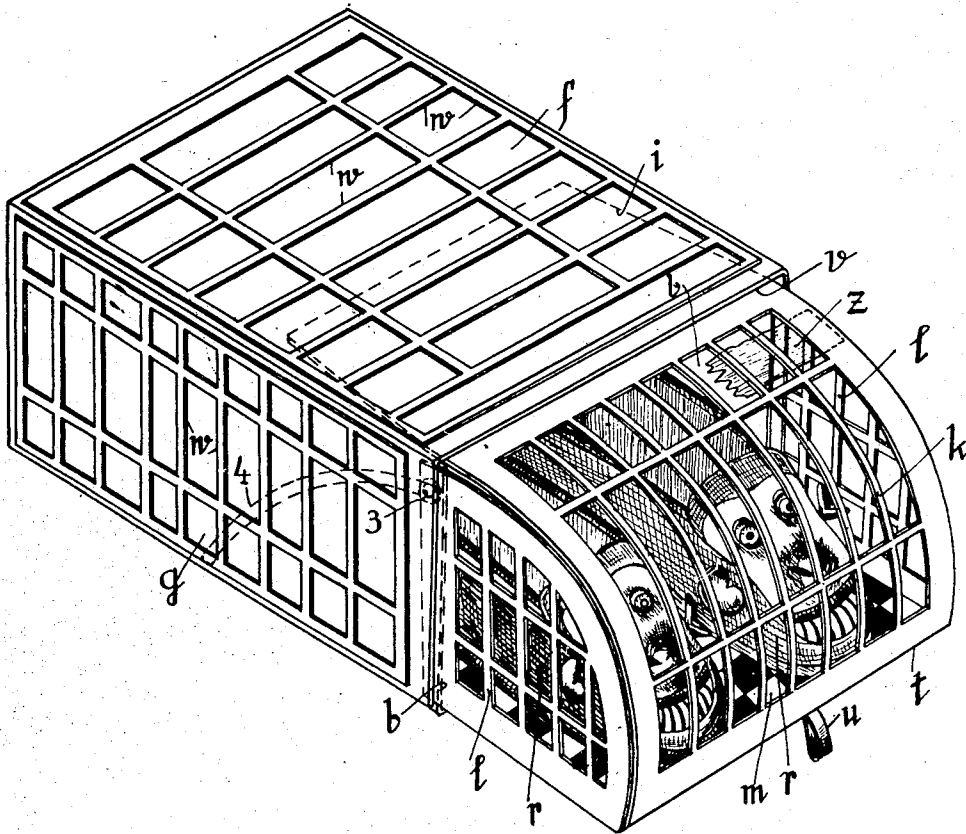
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FIG. 4.



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## UNITED STATES PATENT OFFICE

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## BOX WITH FOLDING LID

Application filed October 6, 1928, Serial No. 310,904, and in Germany April 11, 1928.

The invention relates to a horizontal box-shaped funny box with foldable end wall at one side having an insertion flap and adapted to be opened by being laid down on the table, and it consists substantially in that this insertion flap is so long and cut out trellis-like so that at the laying down of the end wall it appears as the front end of a trellised cage curved according to a quadrant cylinder and guided under the box lid, and that the side walls of the same are formed by trellis-like cut out quadrant surfaces which are folded on the edges of the end wall. These side walls of the insertion flaps may be guided on the inner surface of the side walls of the box. In this case their free edges offer a support for the insertion flap to be bent with regard to the end wall of the cage. The side walls of the insertion flap are however better guided between the double side walls of the box, the two walls held in according slot-distance by cardboard linings glued at the rear between them. When the end wall is being laid down, the long insertion flap of the same has the tendency to unfold also. From doing this it is prevented merely by the top plate of the box against which it applies consequently from below. If the insertion flap of cardboard at fresh state is still sufficiently elastic, it adopts automatically at the closing of the end wall, notwithstanding its great length, an almost horizontal position so that the goods do not impede its inserting under the top plate of the box. If however after frequent lowering and raising of the end wall the inner resiliency of the cardboard insertion flap decreases, the danger of this impediment to its pushing back occurs finally nevertheless. For avoiding this danger the insertion flap might be guided over the goods on flaps or ledges bent inward from the inner side walls.

The box is designed in first instance to accommodate imitations of animals which

are usually exhibited in a cage. The animals may be imitated in any known manner for instance as toy animals of cloth or as sugar or chocolate animals. In the box might however be packed also babies shoes in the form of whole figures of animals or only with animal's heads, for instance monkey's heads. The new box owes its origin to the desire to pack such shoes in a droll, amusing manner. The cardboard box is printed as a box cage. If at the lowering of the lid the quadrant cylindrical cage appears as extension of the box cage, the box need merely to be lifted at the rear or to be rapidly pulled-back to bring the animal's heads or animals close to the curved front wall of the cage.

Although by the automatic formation of a trellis-cage and by the subsequent advancing of the imitations of animals a diverting playing effect is already produced, this would be still more surprising, if simultaneously with the trellis cage extension also the imitation of an animal would appear. This is obtained in the further development of the novelty by the combination of the box with an inner supporting bottom for the goods which at the laying down of the lid is suddenly pushed out of the cardboard box, in a manner known per se, by a pulling ring of rubber, attached to it at the rear and to the bottom plate of the cage at the front. It looks then as if the animals jumped against the curved cage grating, in order to escape or to threaten the spectator. On the accompanying drawing a form of construction of the new box with two kinds of special means for guiding its insertion flap is illustrated by way of example.

Fig. 1 shows the developed blank of the box.

Fig. 2 is a longitudinal cross section and

Fig. 3 a cross section through the closed box and

Fig. 4 a perspective view of the open box.

Fig. 5 shows in perspective view the bottom plate to be suddenly pushed forward.

Fig. 6 shows in cross section two different guiding means for the insertion flap and the

5 Figs. 7 and 8 show these means in longitudinal section.

Fig. 9 is a cross section through a side grating outfit.

10 The blank shown in Fig. 1 provides for the box *a* the bottom plate, *b* the inner side walls, *c* the rear wall, *d* the flap linings, *f* the top plate, *g* the outer side walls, *h* the foldable front end wall, *i* the specially long insertion flap with the front trellis wall *k*, and *l* the lateral grating walls. *m* (Fig. 5) is the inner bottom plate to be suddenly pushed forward, which by its rear abutment ledge *n* prevents resting behind of the goods at its forward jumping. *o* is the rear and *p* the front holding tongue for inserting the rubber pull ring *q*, known per se (Fig. 2), which is put under tension at the pushing back of the inner bottom plate and automatically pushes forward the same at its detending at opened lid.

25 The box being closed, the trellis cage side walls *l* as shown in Figs. 2 and 3 are inserted between the inner side walls *d* and the outer side walls *g* which by the flat linings *b* glued between the same at the rear are spaced at slot distance, according to the thickness of the cardboard, in order that the cage side walls are guided with slight friction. The insertion flap *i, k* can slightly hang down towards the rear under the action of gravity without touching the goods as which, by way of example, a baby's shoe *r* with monkey's head as shown. The insertion flap has, owing to the elasticity of the cardboard material, at the folding edge *t* the tendency to rise up approximately in the direction of the foldable end wall. It is however prevented from doing this by the top plate *f* of the box against which it tries at least to apply from below. If then, the box resting on its bottom plate *a*, the front wall *b* of the same is lowered with the aid of a pull flap *u*, the trellised portion *k* of the insertion flap, sliding on the front edge *v* of the top plate of the box, bends automatically to the shape of the envelope of a quadrant cylinder, see Fig. 4. At the same time the side walls *l*, cut according to a quadrant surface, are oscillated as side gratings of the cage extension *k, l* from out of the side walls of the box. The side walls *l* find, by means of riveted pins or push buttons 3, 3', their abutment in the front end 4' of arc-shaped slits 4 stamped into the lateral inner side walls *b* of the box. The rear end *i* of the insertion flap *i, k* still secured under the top plate *f* of the box against jumping upward, prevents the detaching of the front wall *k* of the cage.

On the box-shaped portion of the box a grating *w* is printed which gives to it the appearance of a cage box.

Already near the end of the lowering of the end wall *a* the shiftable bottom *m* is suddenly pulled forward by the pull of the rubber ring *q* against the inner lid surface the complete lowering of which is thereby automatically accelerated. A person who unsuspectingly opens the box will be extremely surprised and amused by the sudden appearing of the cage extension and still more by the imitations of animals apparently jumping into the same. Mainly babies will be much amused. The box is therefore specially adapted for accommodating any articles presenting any animal as presents for children and babies. For these the box forms, even still after the first surprise, a welcome toy, as it gives them the opportunity to repeat as often as desired the caging and jumping forward of the animals.

In order to prevent that the insertion flap after frequent repetition of the playing drops finally with its portion *i* onto the goods, touches the same and prevents thereby further closing of the front wall the guiding means shown in Figs. 6 to 8 may be provided. According to Fig. 6 at the left and to Fig. 7 these means consist of ledges *x* stamped inward from the edges of the inner walls *d*, and according to Fig. 6 at the right and to Fig. 8 of flaps *y* stamped at the top from these inner walls and bent inward. Hereby a durable toy cage is obtained.

The cage gratings might be covered or lined with a transparent skin *z*. Hereby not only the agreeable appearance but also the elasticity and resistance of the grating walls are increased.

I claim:

1. A box, comprising in combination with the side walls of the upper wall, the rear wall of the bottom plane and a drop-down front wall formed in one piece with said bottom plate, quadrant shaped side walls at right angle on said front wall, a cut out grating-like flap combined with and applied to the outer edge of the drop-down front wall and longer than the height of said front wall and then the curved outer edge of the side wall of said front walls and adapted to assume a bow-shaped position at the lowering of said front wall according to the quadrant curves of said side walls and to form a grating like front closure of the box at the lowering of said front wall.

2. A box as specified in claim 1, comprising in combination with the double side walls the flaps and the side walls on said flaps, spacers arranged between said double side walls forming guide slots for guiding said flap and its side walls.

3. A box as specified in claim 1, comprising

in combination with the double side walls, the inner walls having arc-shaped guide slots, top wall and rear end wall, a bottom plate, a movable front wall connected at the lower edge to the corresponding edge of said bottom plate, a flap at the top edge of said front wall cut out to look like a grating and longer than the height of said front wall and then the curved outer edge of the side wall of said front wall so that at the lowering of said end wall it looks like the curved front of a cage, quadrant shaped side walls on said flap cut out to look like gratings, and rivets on the top edges of said side walls of said flaps adapted to engage with the arc shaped slots of the inner side walls of the box.

4. A box as specified in claim 1, comprising in combination with the side walls, top wall and rear end wall, printed to look like the grating of a cage, a bottom plate, a movable front wall connected at the lower edge to the corresponding edge of said bottom plate, a flap at the top edge of said front wall cut out to look like a grating and of such length that at the lowering of said end wall it looks like the curved front of a cage, quadrant shaped side walls on said flap cut out to look like gratings, and means for guiding said flap and its side walls in said box.

5. A box as specified in claim 1, comprising in combination with the side walls top wall rear wall and bottom plate of the box, a movable front wall connected at the lower edge to the corresponding edge of said bottom plate, a flap at the top edge of said front wall cut out to look like a grating and of such length that at the lowering of said end wall it looks like the curved front of a cage, quadrant shaped side walls on said flap cut out to look like gratings, means for guiding said flap and its side walls in said box, a movable bottom plate, and a rubber ring attached to the rear end of said movable bottom plate and to the front end of said bottom plate of the box.

6. A box as specified in claim 1, comprising in combination with the side walls top wall and rear wall and bottom plate of the box, a movable front wall connected at the lower edge to the corresponding edge of said bottom plate, a flap at the top edge of said front wall cut out to look like a grating and of such length that at the lowering of said end wall it looks like the curved front of a cage, quadrant shaped side walls on said flap cut out to look like gratings, and flaps stamped out of said inner side walls and bent inward to guide the flaps of the movable side wall and the extension of said flap.

7. A box as specified in claim 1, comprising in combination with the side walls top wall and rear wall and bottom plate of the

box, a movable front wall cut out to look like a grating and of such length that at the lowering of said end wall it looks like the curved front of a cage, quadrant shaped side walls on said flap cut out to look like gratings, and a lining of transparent material on the trellised side walls of the flap of the movable bottom plate.

In testimony whereof I affix my signature.

BENNO SCHUBART.