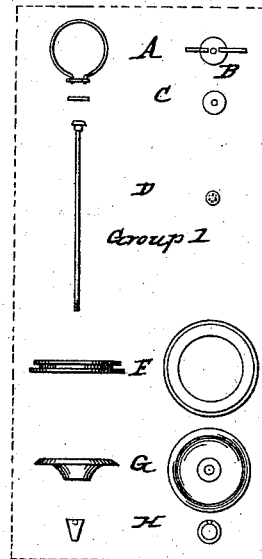
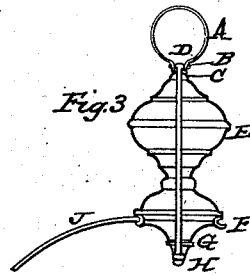
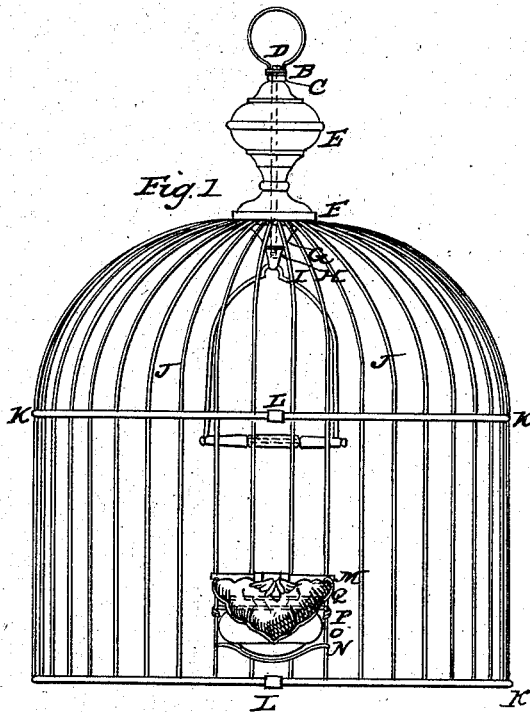


G. R. OSBORN.

Bird Cage.

No. 107,802.

Patented Sept. 27, 1870.



Figs 7-8

Fig. 9

Fig. 2

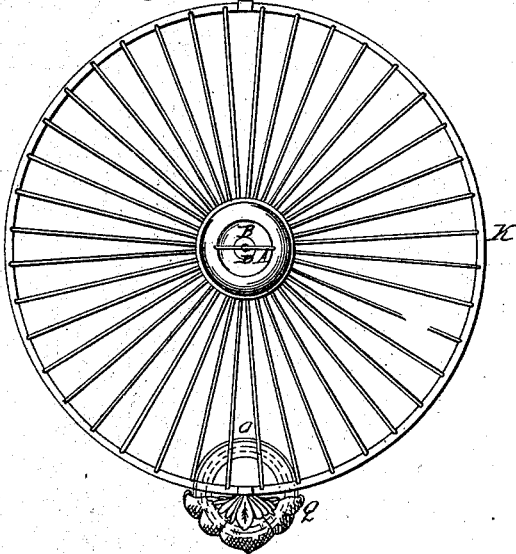
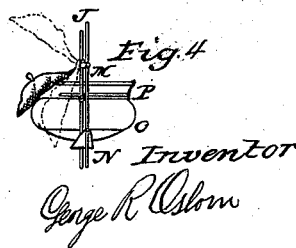


Fig. 5

Fig. 6



witnesses
Benj. A. Drayton,
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George R. Osborn

UNITED STATES PATENT OFFICE.

GEORGE R. OSBORN, OF BRIDGEPORT, CONNECTICUT.

IMPROVEMENT IN BIRD-CAGES.

Specification forming part of Letters Patent No. 107,802, dated September 27, 1870.

I, GEORGE R. OSBORN, of the town of Bridgeport, county of Fairfield, State of Connecticut, have invented certain Improvements in Bird-Cages, of which the following is a specification:

Nature and Objects of the Invention.

The first part of my invention consists in a combination of the pieces forming the top piece of the cage in such a manner as to form a swivel between the cage proper and the ring in the top, whereby the cage is suspended, the object of which is to avoid the danger of the cage being detached from the top, as is frequently the case in the careless handling of the ordinary cage, where the top piece is screwed on stiffly; also, as a convenience in turning the cage on its center when hanging, that it may be made to face in any direction while removing or changing cups, allowing a person to stand in one position while performing said operation; secondly, device for holding the water and feed cups in the side of cage.

Description of Drawing.

Figure 1, side elevation of cage-body embodying my improvements; Fig. 2, top view of same; Fig. 3, cross-section of top piece complete, with swiveling combination, grooved ring for the insertion of the converging upper end of filling-wires and ring-nut; Fig. 4, detached side view of cup, cup-clasp, and protector; Fig. 5, front view of cup-clasp; Fig. 6, top views of same; Figs. 7 and 8, side and end view of the tube used for joining the frame-work; Fig. 9, section of frame-work of cage, showing manner of securing the ends of frame-wires at point of contact; group 1, detached side and top views of the different parts represented in sectional drawing, Fig. 3.

A represents the ring by which the cage may be suspended; B, the circular plate riveted to the ends of the ring A, the two forming the first part in the swiveling combination; C, washer; D, the swivel-bolt, that part of the body of the bolt under the head being a little larger than the main part to allow of a shoulder, against which the washer C sets, thereby giving space for the swivel-plate B to work freely; E, main and upper shell of top

piece, spun in form from thin sheet-brass; F, grooved or eyelet-formed ring for the insertion of the upper ends of the filling or upright wires of the cage, said ends secured in position by soldering; G, under shell of top piece; H, ring-nut, formed of a section of tubing cut to requisite length, drilled and threaded, the purpose of which is, first, of securing in place the parts forming the top piece, second, the ring for suspending the swing; I, the swing; J, the filling-wires of the cage; K, the perforated large wires forming the frame-work of the cage. The perforations are for the insertion of the filling-wires of the cage.

L, a short piece of tube, into which are inserted the ends of the wires K, which are secured in place by soldering, thereby forming a strong and readily-made joint; M, a perforated bar, in size and spaces between the holes same as frame-work K; N, strip of sheet metal, perforations same as bar M. A space is left between this strip and the bar M by removing that portion of the two inner filling-wires between said bar and strip.

O, seed or water cup, tulip form; P, spring-clasp for holding the cup O suspended in position by clasp around the smallest part of the cup. This clasp is formed of a piece of spring metal, bent in form about three-fifths of a circle, the ends then counterturned outwardly to about on line of the circle's center, and secured by winding and soldering to the filling-wires J.

Q, the protector—a triangular and ornamentally-formed piece of sheet metal, hinged by one edge to the bar M, the use of which is, first, to prevent the bird throwing seed from the cage; second, to close the opening between the bar M and strip N left on removal of the cup.

The manner of removing cup and operation of protector is, first, with the finger raise the protector from its position as a preventive of seed-throwing, as shown in Figs. 1, 2, and 4, to the position indicated by the upper dotted outline in Fig. 4; then, with the thumb and finger, draw the cup forward from the clasp P; then press downward the protector Q to the position indicated by the lower dotted outline in Fig. 4, thus closing the opening left by re-

moval of cup and preventing the escape of the bird.

The operation of the swivel arrangement may be demonstrated by suspending the cage from the finger by the ring A; with the other hand touch the wires J and press to right or left.

I claim as my invention—

1. The combination of the ring and plate A B, bolt D, shells E and G, grooved ring F, and

ring-nut H, when constructed and arranged as herein described, and for the purposes specified.

2. The combination of the spring-clasp P and feed-cup O, as and for the purpose specified.

GEORGE R. OSBORN.

Witnesses:

BENJ. A. DRAYTON,
CHARLES E. HECOX.