

No. 754,806.

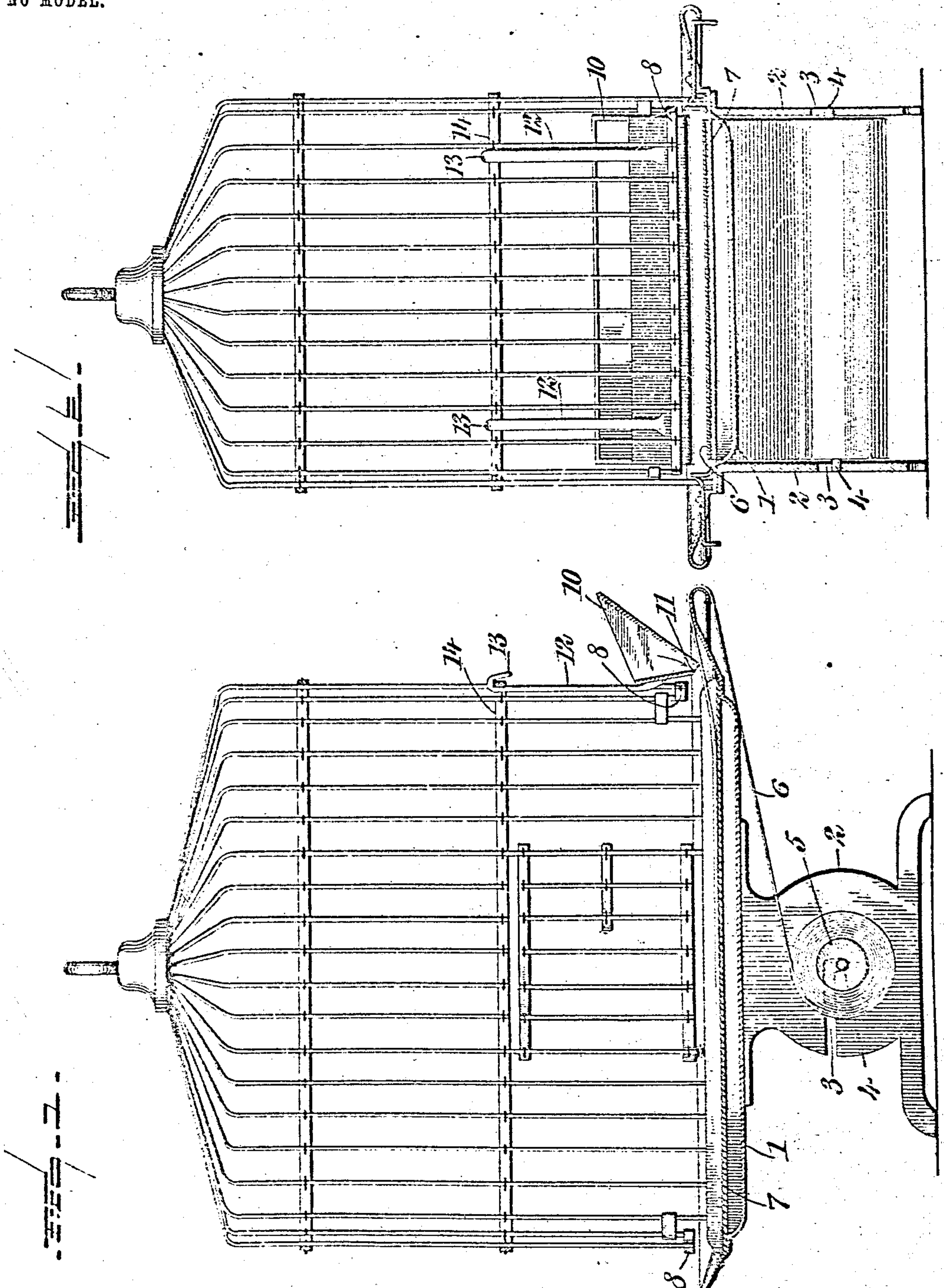
PATENTED MAR. 15, 1904.

J. A. QUELCH.

BIRD CAGE.

APPLICATION FILED DEC. 10, 1903.

NO MODEL.



WITNESSES:

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## UNITED STATES PATENT OFFICE.

JOSEPH A. QUELCH, OF NEW YORK, N. Y.

## BIRD-CAGE.

SPECIFICATION forming part of Letters Patent No. 754,806, dated March 15, 1904.

Application filed December 10, 1903. Serial No. 184,558. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH A. QUELCH, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Bird-Cage, of which the following is a full, clear, and exact description.

This invention relates to improvements in bird-cages, the object being to provide, in connection with a cage, a paper-roll holder, whereby the paper covering for the cage-bottom may be conveniently and quickly changed or renewed; and another object is to provide a novel means for distributing gravel on the paper as it is drawn through the cage.

I will describe a bird-cage embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the figures.

Figure 1 is a longitudinal section of a bird-cage embodying my invention, and Fig. 2 is a transverse section thereof.

Referring to the drawings, 1 designates the bottom of the cage, secured to which are downwardly-extended hangers 2, which also provide legs or supports for the cage when placed on a table or the like. These hangers 2 have outwardly-opening slots 3, the inner ends of which are turned down to form bearings for the spindles 4 of a roller 5, on which the paper strip 6 is wound.

I have shown as secured to the inner side of the cage-bottom 1 a plate 7, which forms a level base for the paper strip passed over the same. The paper strip 6 is passed over one end of the cage-bottom 1, thence underneath the bottom bars 8 of the cage, and over the opposite end of the bottom 1, and this opposite end of the bottom is turned upward and somewhat sharpened, as indicated at 9, so that the paper may be readily torn off at this point when a new length is drawn into the cage.

It will be noted that the end bottom bars 8 are arranged sufficiently above the plate 7 to permit the free movement of the paper. As a means for distributing gravel on the new

section of paper as it is drawn into the cage I employ a hopper 10, having an opening 11 at the lower side, which is slightly above the paper. This hopper is removably connected to the cage by means of rods 12, having hook ends 13 for engaging with the metal band or bar 14 of the cage. As the paper is drawn through the cage it is obvious that a certain amount of gravel will pass out of the hopper 10 and onto the paper. By this arrangement it is obvious that the paper may be changed in the cage without removing the cage from a suspending-hook or the like, or it may be removed and placed upon a table.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination with a bird-cage of a paper-roll support attached thereto and from which paper may be drawn over the bottom of the cage.

2. The combination with a bird-cage, of hangers depending from the bottom thereof, a paper-holding roller having bearings in the said hangers and a paper strip passing from said roller over the bottom of the cage.

3. The combination with a bird-cage, of a bottom therefor having one end forming a tearing or cutting blade for paper, hangers attached to the bottom of the cage and forming legs, a roller for paper having bearings in said hangers, and a paper strip extended from the roller over the bottom of the cage.

4. The combination with a bird-cage, of a paper-roll holder attached thereto, a paper strip extending from the holder onto the cage-bottom, and a gravel-distributor connected with the cage.

5. The combination with a bird-cage, of a paper-roll holder attached thereto from which paper passes through the cage, a gravel-hopper having an opening at the bottom, and rods attached to said hopper and having hook ends for engaging with a part of the cage.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH A. QUELCH.

Witnesses:

CHAS. W. BRUCHER,

LOTTIE L. ROTHSTEIN.