March 26, 1929. A. M. KROCZEK 1,706,854

METHOD OF MAKING BIRD CAGES

Filed Aug. 29, 1927

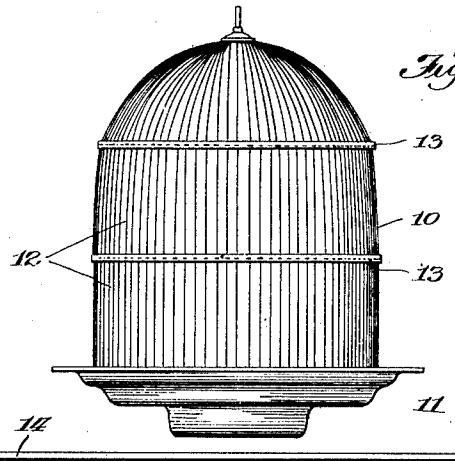


Fig. 1.



Fig. 2.

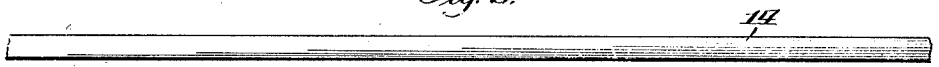


Fig. 3.

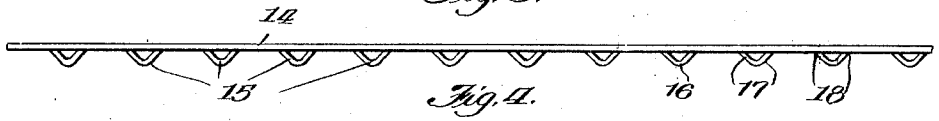


Fig. 4.

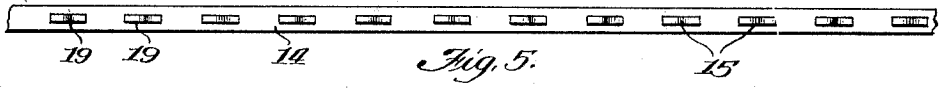


Fig. 5.



Fig. 6.

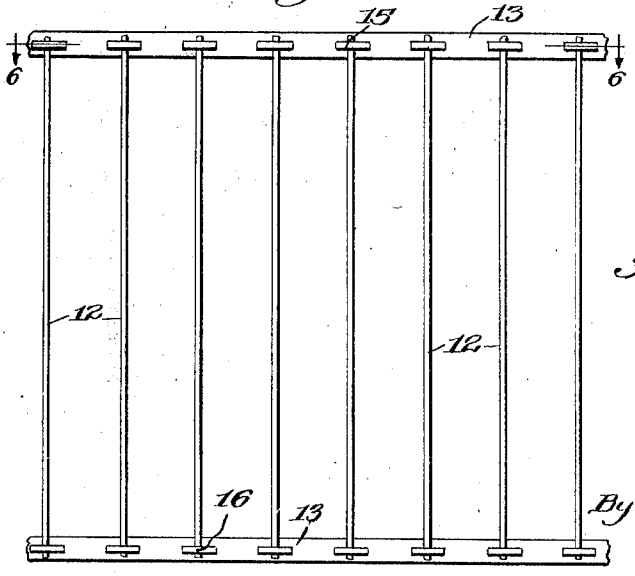


Fig. 7.

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Patented Mar. 26, 1929. 1,706,854

UNITED STATES PATENT OFFICE.

ANTON M. KROCZEK, OF CHICAGO, ILLINOIS.

METHOD OF MAKING BIRD CAGES.

Application filed August 29, 1927. Serial No. 216,092.

The present invention relates to improvements in bird cages, and particularly those having wire domes wherein the wire strands are clamped in annular bands.

Another object of the present invention is the provision of a method or process of making annular bands for bird cages of the type mentioned and of clamping wire strands in said annular bands.

In my copending application, Serial No. 212,003, filed August 10, 1927, I have shown a machine for forming the annular bands and for clamping the wire strands in the annular bands, and the object of the present application is to cover the process or method for arriving at that object.

With the above general objects in view and others that will appear as the nature of the invention is better understood, the same consists of the novel construction, combination and arrangements of parts hereinafter more fully described, illustrated in the accompanying drawing and pointed out in the appended claims.

In the drawing forming a part of this application and in which like designating characters refer to corresponding parts throughout the several views,

Fig. 1 is a side elevational view of a bird cage including a dome and a tray;

Fig. 2 is a top view of a strip of metal before the same undergoes the first step of the process;

Fig. 3 is the side or face view of said strip;

Fig. 4 is a top view of the strip with struck out eyes for receiving therein wire strands, the view illustrating the second step in the process;

Fig. 5 is the outer side view of the strip with struck out eyes;

Fig. 6 is a longitudinal cross-sectional view through the annular band with wire strands in position and clamped in the band, the view being taken on line 6—6 of Fig. 7; and

Fig. 7 is an enlarged fragmentary view of the dome looking from the inside.

Referring to the drawing in detail there is shown therein on Fig. 1 a bird cage, including dome 10 and tray 11. Said dome is made of a plurality of wire strands 12 which are held in position by a plurality of annular bands 13 which encompass the wire strands.

For forming said annular bands and for clamping the wire strands therein I take metallic strips such as 14 illustrated on Figs. 2 and 3 and by suitable stamping machine I punch out a plurality of eyes 15 which are in spaced relation and are longitudinally disposed with respect to the strip and remain in substantially the central portion thereof, as seen on Figs. 4 and 5. Said eyes 15 are of angular formation and are sufficiently large for allowing free passage of wire strands 12 therethrough. Each of said eyes 15 has an apex 16 formed by two similar walls 17 which project from the body of the strip 15. The outer faces of each of said walls 17 of each eye 15 with the adjacent face of the body of strip 14 forms an obtuse angle with apex 18.

When said eyes 15 have been formed in strip 14 as hereinabove described I pass through said eyes wire strands 12 which ultimately in proper arrangement will form bird cage dome 10. Thereupon I clamp said wire strands in said eyes which is accomplished by pressing walls 17 near their bases adjacent apexes 18 and bringing the body of the eye at those points nearer to the wire strands 12, which operation will cause the inner face of each eye 15 to snugly fit the periphery of each wire strand 12. Simultaneously with the last mentioned operation I exert pressure upon the apexes 16 of eyes 15 which operation will force the bases of walls 17 into the openings 19 which resulted in strip 14 upon striking out eyes 15. This operation will clamp wire strands 12 on plane running transversely of the annular band 13. Thus, it will be seen each wire strand 12 will become firmly clamped in the eye through its entire periphery.

The compression of eyes 15 for the purposes hereinabove mentioned may be accomplished by my machine disclosed in my copending application hereinabove mentioned or may be arrived at by some other suitable means.

While there is described herein a preferred embodiment of the present invention, it is nevertheless to be understood that minor changes may be made therein without departing from the spirit and scope of the invention as claimed.

What I claim as new is:

1. A method of making bird cages of the type wherein wire strands are held in position by annular bands, comprising making laterally projecting eyes in the metallic strips,

the latter ultimately resulting in said annular bands, inserting wire strands in said eyes, and thereupon exerting pressure upon said eyes for decreasing their size.

2. A method of making bird cages of the type wherein wire strands are held in position by annular bands, comprising making laterally projecting eyes in the metallic strips, the latter ultimately resulting in said annular bands, inserting wire strands in said eyes, and thereupon exerting pressure upon the bases and apexes of said eyes.

3. A method of making bird cages of the type wherein wire strands are held in position by annular bands, comprising making laterally projecting eyes in metallic strips longitudinally and substantially centrally thereof, said strips ultimately resulting in said annular bands, thereupon inserting wire strands in said eyes, and thereupon exerting pressure at the bases and apexes of said eyes for bringing the inner faces of said eyes in frictional contact with the periphery of said wire strands.

4. A method of clamping wire strands in metallic strips, comprising making outwardly projecting eyes in the strips, inserting wire strands in said eyes, and thereupon exerting pressure at the bases and apexes of said eyes for bringing the inner faces of said eyes into frictional contact with the surfaces of said wire strands.

5. A method of clamping wire strands in metallic strips, comprising making outwardly projecting V-shaped eyes in the strips, inserting wire strands in said eyes, and thereupon exerting pressure at the walls of said eyes adjacent the bases thereof and at the apexes thereof for forcing portions of said walls into the body of the strips for the purpose of bringing the inner faces of said eyes into frictional contact with said wire strands.

6. A method of making bird cages of the type wherein wire strands are held in position by upright annular bands, comprising making laterally projecting eyes in metallic strips longitudinally and substantially centrally thereof, said strips ultimately resulting in said annular bands, inserting wire strands in said eyes, and thereupon exerting pressure at the bases and apexes of said eyes for bringing the inner faces of said eyes into frictional contact with said wire strands.

In testimony whereof I affix my signature.

ANTON M. KROCZEK.