Jan. 21, 1936. C. W. COLE 2,028,499

LIGHT BAFFLING SCREEN

Filed Jan. 4, 1935

Fig. 1.

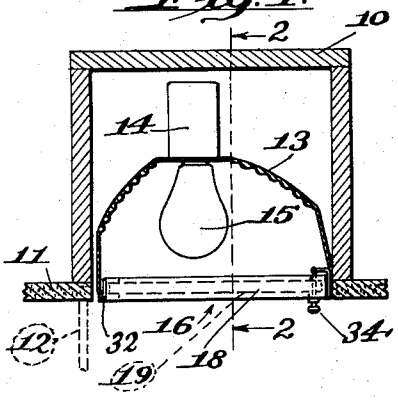


Fig. 2.

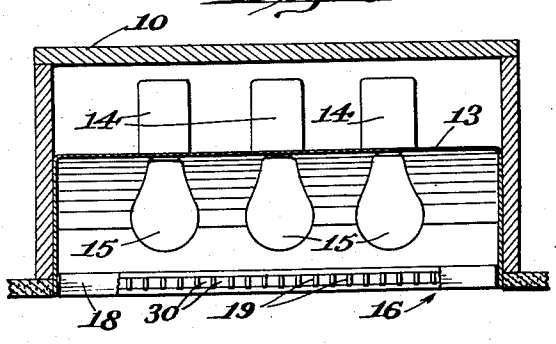


Fig. 3.

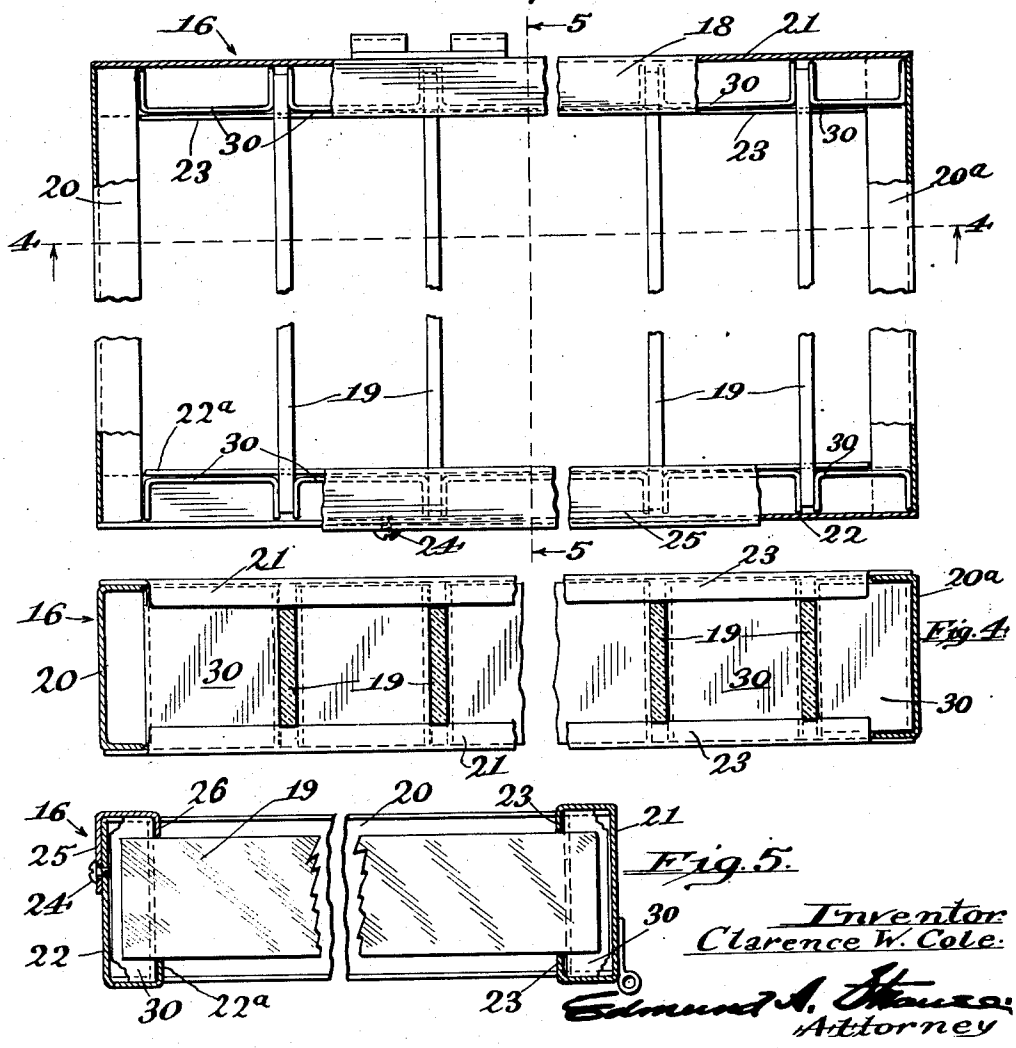


Fig. 4.

Fig. 5.

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LIGHT BAFFLING SCREEN

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Application January 4, 1935, Serial No. 324

2 Claims. (Cl. 240—78)

This invention relates generally to electrical illumination apparatus and more particularly to a light baffling screen particularly adapted for the illumination of display windows of stores.

The object of the present invention is to provide a light baffling screen in which the light baffling plates or louvers may be easily and quickly assembled within a frame without the use of rivets, spot welding, soldering or the like.

Other objects and advantages will be apparent from the following description reference being had to the accompanying drawing in which:

Fig. 1 is a cross sectional view taken through a housing and reflector showing the improved light baffling screen mounted therein.

Fig. 2 is a longitudinal section taken on line 2—2 of Fig. 1.

Fig. 3 is an enlarged top plan view of the light diffusing screen parts being broken away and shown in section.

Fig. 4 is a section taken on line 4—4 of Fig. 3.

Fig. 5 is a section taken on line 5—5 of Fig. 3.

Referring more specifically to the drawing 10 designates a housing or light box which is adapted to be installed in the ceiling 11 within a display window adjacent the window pane thereof indicated in dotted lines at 12.

Mounted in casing 10 is a reflector 13 that carries a plurality of sockets 14 which receive incandescent lamps 15, and disposed in the lower portion of said reflector is the improved light baffling screen generally designated at 16.

Light baffling screen 16 comprises a frame 18 of rectangular shape in plan view in which is mounted a plurality of equally spaced light baffling plates or louvers designated at 19, said plates being formed of glass and having a coating thereon to render the same translucent.

Frame 18 consists of end members 20 and 20a, and side or longitudinal members designated at 21 and 22 respectively that are secured together at the corners by spot welding. End members 20 are channel shaped in cross section while the side member 21 is of similar shape but having inwardly turned flanges 23 formed thereon.

Side member 22 is L shaped in cross section and has an upwardly turned flange 22a formed on its lower leg and removably secured to said member by screws or the like 24 is a securing member 25 of similar shape having a downwardly turned flange 26.

Removably mounted in the side members are separators designated at 30 which alternate with and serve to hold the plates 19 in evenly spaced relation to each other.

In constructing the improved screen a sufficient number of separators 30 are placed in the side member 21 prior to securing it to the end members 20 and 20a.

In assembling a separator is placed in the side member 22 and moved into engagement with the end member 20a. A plate 19 is then placed in the frame 18 with one end thereof projecting between a pair of the separators in the side member 21.

A separator is then placed in the side member 22 and moved into engagement with the plate 19 and the operation repeated until all of the plates and separators have been mounted in the frame.

Member 25 is then applied to member 22 and secured by screw 24.

From the foregoing it will be apparent that the light baffling plates may be quickly and firmly mounted in the frame without the use of bolts, rivets, soldering or spot welding.

The light baffling screen 16 above described is hingedly connected to the reflector 13 as indicated at 32 (see Fig. 1) in order that it may be swung downwardly when it becomes necessary to replace one or more of the lamps 15 and held in place by a suitable latch designated at 34.

The housing 10 and reflector may be of any desired length say about 10 feet and a plurality of the improved light baffling screens mounted therein as above described.

I claim:

1. A light baffling screen comprising a rectangularly shaped frame including longitudinal channel shaped members having inwardly turned flanges formed thereon, a plurality of light baffling plates disposed in said frame with their opposite ends projecting into the side members thereof, and a plurality of channel shaped separators disposed between said light baffling plates and removably mounted in said frame.

2. A light baffling screen comprising a rectangularly shaped frame including longitudinal channel shaped members having inwardly turned flanges formed thereon, a plurality of light baffling plates disposed in said frame with their opposite ends projecting into the side members thereof, a plurality of channel shaped separators, and a securing member extending lengthwise of and removably secured to one of said side members, whereby said light baffling plates may be assembled in said frame.

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