May 21, 1940. R. H. HUTCHINSON 2,201,266

GRILLE

Filed Nov. 29, 1938

FIG. 1

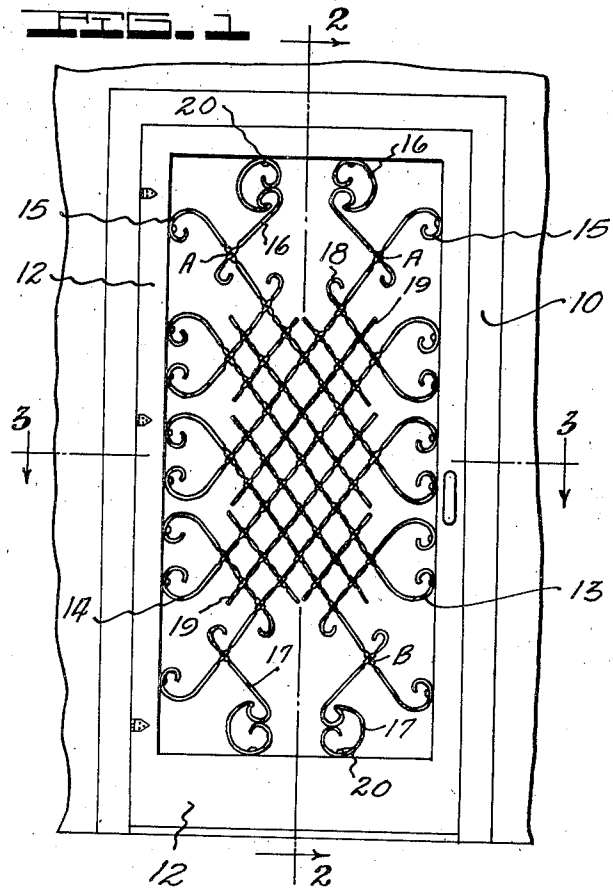


FIG. 2

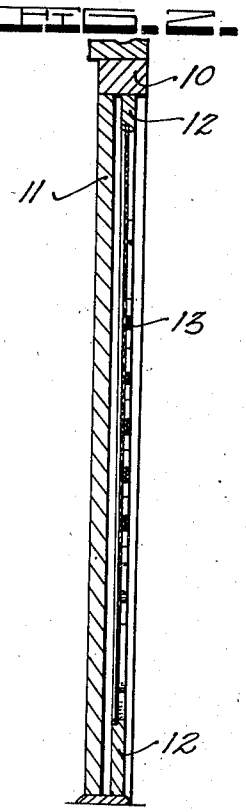


FIG. 3

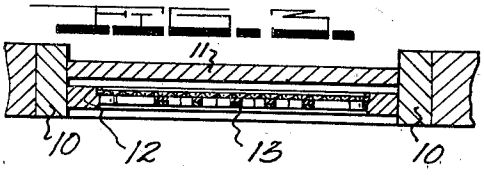
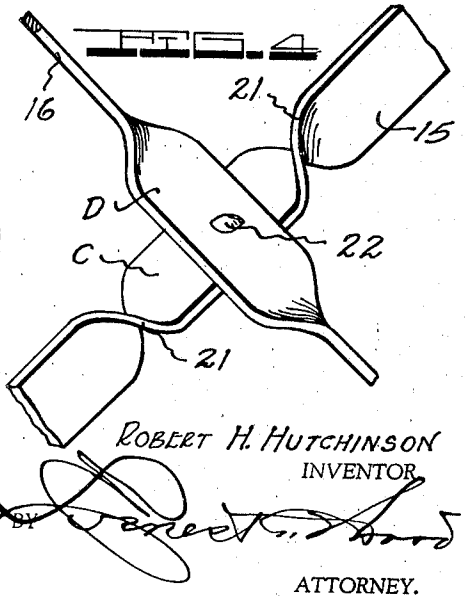


FIG. 4



ROBERT H. HUTCHINSON
INVENTOR

BY

ATTORNEY.

Patented May 21, 1940 2,201,266

UNITED STATES PATENT OFFICE

2,201,266

GRILLE

Robert H. Hutchinson, Dallas, Tex.

Application November 29, 1938, Serial No. 242,954

2 Claims. (Cl. 20—71)

This invention relates to new and useful improvements in adjustable grilles for screen doors.

One object of the invention is to provide a grille for screen doors, said grille being adjustable both horizontally and vertically.

Another object of the invention is to provide an adjustable grille which not only protects the screen wire within a door frame but covers the complete screened area thus serving as a protection against entrance of undesirable persons.

Still another object of the invention is to provide an adjustable grille constructed of flat iron strips and turned to form a number of scroll designs whereby an ornamental as well as a protective grille is had.

Another object of the invention is to provide a grille for doors or windows wherein all scrolls of said grille are completed in three-fourths to one full turn of each scroll. Thus the cost of manufacture is reduced without interference to the design or strength of said scrolls of said grille. That is, each scroll is completed in three-fourths to one full turn as compared to the majority of scrolls which include one and one-half to two full turns. Obviously, three-fourths to one full turn requires a lesser amount of material of equal strength.

The invention will be more readily understood from a reading of the following specification and by reference to the accompanying drawing wherein means for carrying out the invention are disclosed and wherein:

Figure 1 is a front elevation of a device constructed in accordance with the invention and applied to a screen door.

Figure 2 is a transverse vertical sectional view taken on the line 2—2 of Figure 1.

Figure 3 is a horizontal cross-sectional view taken on the line 3—3 of Figure 1, and

Figure 4 is an enlarged isometric detail view showing the pivoted connections.

In the drawing, the numeral 10 designates the usual door jamb having the usual door 11 suitably mounted therein.

A screen door 12 of any suitable construction is also mounted within the jamb 10, having a grille 13 mounted in the screened-in area of said door 12.

The grille 13 is preferably constructed of flat strips of wrought iron 14 whereby said strips may be cut into suitable lengths and turned into desirable scrolls.

The grille consists primarily of six scrolled strips 15 suitably pivoted to each other whereby a horizontal adjustment may be had.

For vertical adjustment two suitably scrolled upper members 16 are pivoted to the members 15 at A, while similar members 17 are disposed at the bottom of the grille and pivoted to the members 15 at B.

A plurality of scrolled members 18 are disposed at desirable points on the members 15 to form an ornamental design and also to further brace the structure. Members 19 are fitted to the members 15 to further design and strengthen said grille 13.

The members 15, 16, 17 and 18 are secured to the screen door 12 at each point of contact therewith, by any suitable means such as screws 20.

While any suitable pivotal connection may be used at contact points of any of the above mentioned members with each other, it is preferred to use the type disclosed in Figure 4.

A portion C of the members 15 is bent at 21 whereby said portion is at right angles to the rest of the member 15. The member 16 is similarly bent to form a right-angular portion D. Thus it may be seen that broad sides of the portions C and D may lie contiguous to each other, whereby holes may be drilled in said portions to receive rivets 22, whereby a pivoted connection is had. All connections in the grille are formed in the above described manner.

From the foregoing it may be seen that a grille both vertically and horizontally adjustable is had. Also said grille is so constructed as to withstand a maximum amount of rough usage for a maximum amount of time. Said grille is also cheap in manufacture, simple in construction and ornamental in design.

Manifestly, the construction as shown and described is capable of some modification and such modification as may be construed within the scope and meaning of the appended claims is also considered to be within the spirit and intent of the invention.

What is claimed is:

1. A latticed grille comprising two sets of major bars pivotally intercrossing each other, minor bars pivotally connected to the longitudinal ends of said major bars by only a single pivot to effect vertical adjustment of said grille independent of any horizontal adjustment thereof.

2. A full length latticed grille for screen doors and windows comprising two sets of major bars pivotally intercrossing each other to effect horizontal adjustment of said grille and two pairs of minor bars connected to the longitudinal ends of said major bars with only a single pivot whereby to effect vertical adjustment of said grille, independent of said horizontal adjustment.

ROBERT H. HUTCHINSON.