May 27, 1958 R. L. WEIR 2,836,236

EMBER STOP, FIRE PLACE SCREEN

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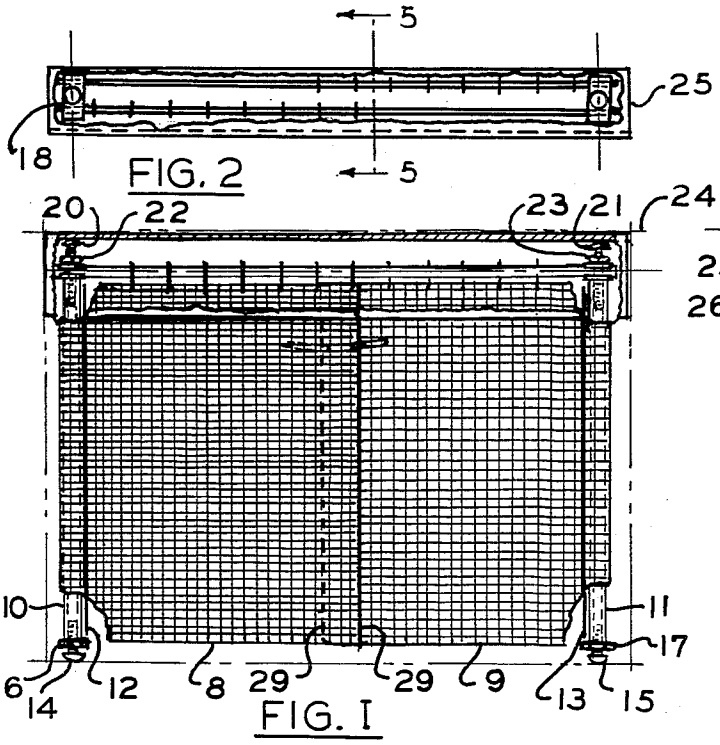


FIG. 2

FIG. I

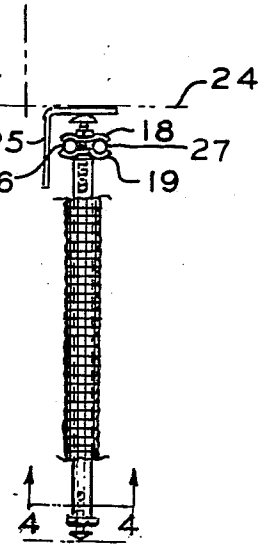
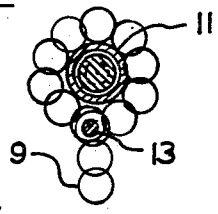


FIG. 3

FIG. 4



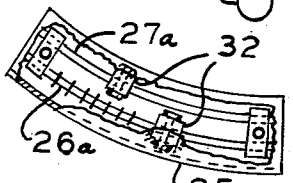


FIG. 6

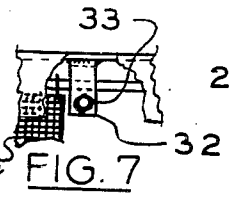


FIG. 7

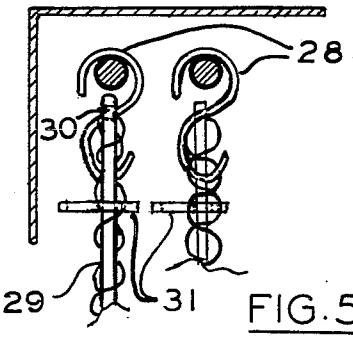


FIG. 5

INVENTOR.

Richard L. Weir

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EMBER STOP, FIRE PLACE SCREEN

Richard L. Weir, Dayton, Ohio

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4 Claims. (Cl. 160—19)

My invention relates to improvements in fireplace screens and is called ember-stop.

An important object of my invention is to provide a simple means of holding all elements in place in a fireplace opening.

Another important object of the invention is to provide a screen that can be easily broken down into simple component sections for easy packaging.

Another object of my invention is to provide a detachable shield to cover the top adjustable portions of the screen and thus allow for opening size adjustments without altering the appearance of the installed screen.

Other important objects of my invention will become apparent during the course of the following description.

In the accompanying drawing forming part of this application, and in which like numerals are employed to designate like parts throughout the same:

Fig. 1 is a side elevation of my fireplace screen with a large section of the shield cutaway and partial sections of the screen cloth cutaway.

Fig. 2 is a plan view of the screen with a section of the shield cutaway.

Fig. 3 is an end view of the screen with portions of the screen cloth cutaway.

Fig. 4 is a horizontal cross section showing one end post assembly of the screen.

Fig. 5 is a vertical cross section of the head portion of the screen showing the assembly of the screen on the sliding rods.

Fig. 6 is a plan view drawing of an alternate curved opening installation with sections cut away.

Fig. 7 is a cutaway side view drawing showing a typical adjustable support-rod-supporting bracket installation for the alternate installation.

In the drawing where for the purpose of illustration is shown a preferred embodiment of my invention the numerals 8 and 9 indicate the screen cloth panels mounted on and surrounding end parts 10 and 11 and held in surrounding position thereon by pass thru locking rods 12 and 13.

At the bottoms of and extending upward within tubular end posts 10 and 11 are lower adjusting bolts 14 and 15 upon which are lower adjusting nuts 16 and 17. At the tops and extending downward thru horizontal support-rod-retaining clips 17 and 18 and extending within tubular end posts 10 and 11 are upper adjusting bolts 20 and 21.

Upon upper adjusting bolts 20 and 21 are upper adjusting nuts 22 and 23. Between the tops of upper adjusting bolts 20 and 21 and the fireplace opening lintel as indicated by broken line 24 (Fig. 1 and Fig. 3) is angular shield 25. Horizontal support rods 26 and 27 are retained at both ends by support-rod-retaining-clips 18 and 19. Screen cloths 8 and 9 are attached to support rods 26 and 27 by sliding hooks 28 which hook thru screen cloths 8 and 9 at intervals along the top edge and over support rods 26 and 27. End stiffening rods 29 are inserted within the end roll of wire cloths 8 and 9 and top end of end wire in cloths is inserted thru holes 30

in rods 29. Stiffening rods 29 extend through holes in handles 31 which are inserted between the end spirals in screen cloths 8 and 9 before stiffening rods 29 are inserted thru the end spirals perpendicular to handles 31. To install the screen the parts are assembled as indicated in the drawings and rough adjustments are made to upper adjusting nuts 22 and 23 so that the screen assembly can be inserted freely in the opening between the fireplace lintel and hearth. Lower adjusting nuts 16 and 17 are then turned on bolts 14 and 15 to exert compressive force on the elements in the post assemblies and hold the angular shield 25 firmly against the fireplace lintel. It is now apparent that the fireplace screen will be held upright in the fireplace opening essentially as shown in Fig. 1. By pulling horizontally toward the respective post assemblies on handles 31 hooks 23 slide along rods 26 and 27 and the screen cloths fold to provide an opening.

As shown in Figs. 6 and 7, an alternate installation for a curved installation requires that support rods 26*a* and 27*a* be curved, that angular shield 25*a* be curved and that additional adjustable support-rod-supporting brackets 32 are attached to angular shields 25*a* in such a position that they support rods 26*a* and 27*a* ahead of the ends of screen cloth 8*a* (as shown typically in Fig. 7) when the screen cloths are fully extended. Support rods 26*a* and 27*a* are retained firmly between the flexible legs of U-shaped adjustable support rod supporting brackets 32 by bolts and nuts 33 said bolts extending through aligned holes in the legs of supporting brackets 32.

Installation of the curved screen assembly is the same as in the straight assembly except that when rough adjustments are made to upper adjusting nuts 22 and 23 the curved rods are adjusted upwardly or downwardly in support rod supporting brackets 32 so that they are retained in a horizontal position.

It is to be understood that the form of my invention herewith shown and described is to be taken as a prefined example of same and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the new basic concepts expressed.

Having thus described my invention, I claim:

1. A fireplace screen structure comprising: two vertical tubes at each end of said structure adapted to be placed between the fireplace lintel and hearth; upper and lower adjusting bolts in each end of said vertical tubes and bearing toward the bottom of said lintel and the top of said hearth respectively; lower adjusting nuts threaded on said lower adjusting bolts and having faces supporting the lower ends of said tubes; two upper and lower rod retaining clips above each of said tubes respectively, and having openings through which said upper adjusting bolts pass, said lower retaining clips resting on the upper ends of said vertical tubes; two horizontal screen support rods having ends held between said clips; upper adjusting nuts threaded on said upper adjusting bolts and urging the upper ends of said upper adjusting bolts toward the bottom of the fireplace lintel and holding and tightening said screen support rods between said upper and lower rod retaining clips, and forcing said lower clips against the ends of said vertical tubes to lock said tubes in said fireplace; and screens slidably supported on said screen support rods.

2. A fireplace screen structure comprising: two vertical tubes at each end of said structure adapted to be placed between the fireplace lintel and hearth; upper and lower adjusting bolts in each end of said vertical tubes and bearing toward the bottom of said lintel and top of said hearth respectively; lower adjusting nuts threaded on said lower adjusting bolts and having faces supporting the lower ends of said tubes; upper adjusting nuts threaded on said upper adjusting bolts and exerting

an upward force reaction on said bolts between the bottom of the lintel of the fireplace and the tops of said vertical tubes to lock said tubes in place; a screen supporting rod structure locked around said upper adjusting bolts between the upper ends of said tubes and said upper adjusting nuts; and screening supported from said supporting rod structure.

3. A fireplace screen structure according to claim 1, in which an angular shield is held between the bottom of said lintel and the top ends of said upper adjusting bolts, said shield extending downwardly in front of the upper edges of said screens.

4. A fireplace screen structure according to claim 2, in which an angular shield is held between the bottom of said lintel and the top ends of said upper adjusting bolts, said shield extending downwardly in front of the upper edge of said screening.

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