

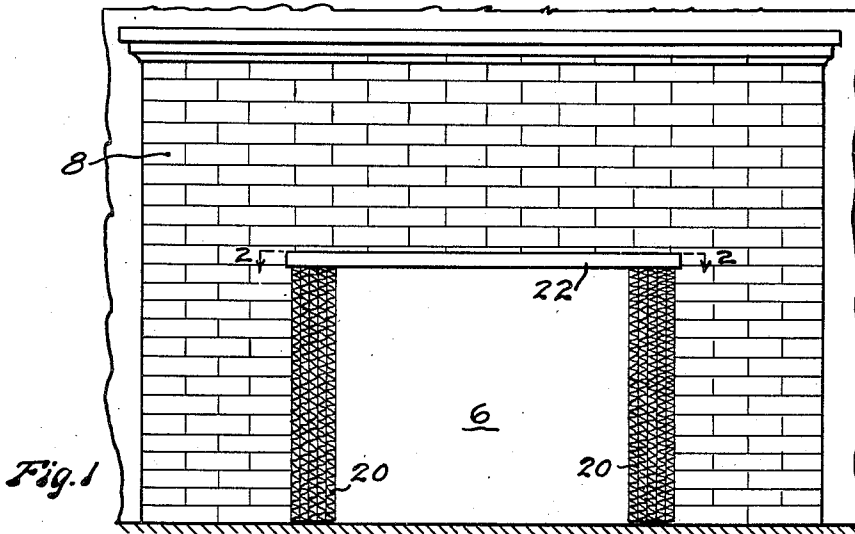
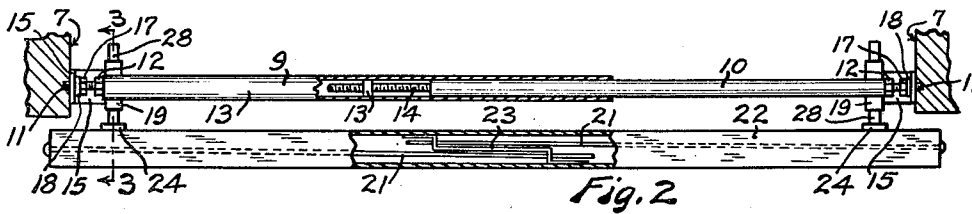
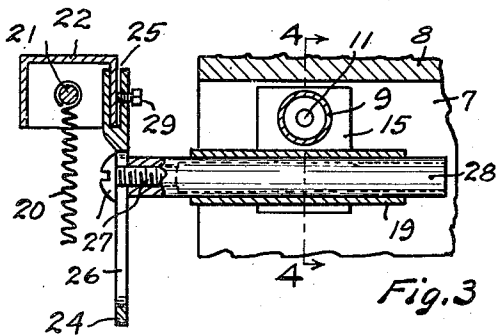
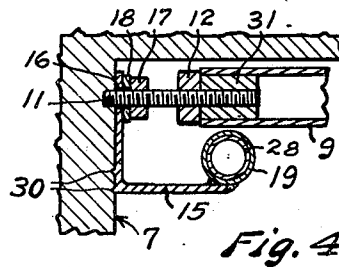
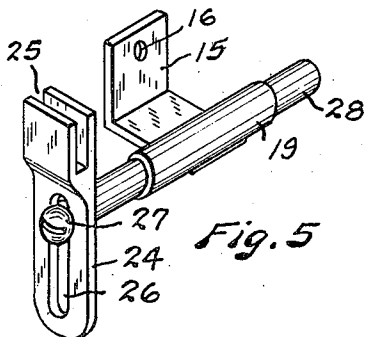
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J. F. SHANNON

2,562,371

FIREPLACE SCREEN SUPPORT

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INVENTOR.
James F. Shannon
BY
Fred G. Matheny
ATTORNEY

UNITED STATES PATENT OFFICE

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FIREPLACE SCREEN SUPPORT

James F. Shannon, Bellevue, Wash.

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4 Claims. (Cl. 16—87.2)

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This invention relates to a fireplace screen of the collapsible draw curtain type and this invention is in the nature of an improvement on the fireplace screens disclosed in my two prior Patents No. 2,275,236, issued March 3, 1942, and No. 2,356,892, issued August 29, 1944.

An object of this invention is to improve and simplify the construction of a screen supporting means of a type adapted to support metal draw screens so that they can be moved toward and away from a fireplace.

A further object is to provide a fireplace screen supporting means including two L-shaped brackets supported by a cross member which is longitudinally extensible into engagement with two opposed side walls of a fireplace, each bracket carrying a sleeve to slidably receive an arm by which an end portion of a screen supporting bar is carried so that draw curtain type screens supported by said bar can be moved toward and away from a fireplace.

Another object of this invention is to provide fireplace screen supporting means which can be quickly and easily secured to a fireplace without the use of special tools and without altering or mutilating the fireplace and which will support metal draw screens in such a manner that they can be moved outwardly from the fireplace to prevent the screens from being damaged by overheating.

Other objects of the invention will be apparent from the following description taken in connection with the accompanying drawings.

In the drawings—

Figure 1 is a front elevation of a fireplace provided with draw screen means constructed in accordance with this invention, the draw screens being drawn to the sides of the fireplace.

Fig. 2 is a view partly in section and partly in plan, on a larger scale than Fig. 1, taken substantially on broken line 2—2 of Fig. 1.

Fig. 3 is a fragmentary sectional view, on a larger scale than Fig. 2, taken substantially on broken line 3—3 of Fig. 2.

Fig. 4 is a fragmentary sectional view taken substantially on broken line 4—4 of Fig. 3.

Fig. 5 is a detached perspective view of a screen supporting bracket and an angle bracket with a sleeve of the angle bracket telescopically receiving an arm of the screen supporting bracket.

Like reference numerals designate like parts throughout the several views.

In accordance with this invention I provide extensible cross bar or supporting means adapted to be placed across a fireplace opening 6 near

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the top of said opening and extended or expanded against opposed side walls 7 of a fireplace 8 to support means on which collapsible metal fireplace screens 20 of draw curtain type are hung. The screens 20 can be formed of interlaced wire helices or metal mesh or can be otherwise constructed as long as they are of fireproof material and can be drawn to one side like draw curtains.

The extensible cross bar or supporting means herein shown comprises two relatively telescopic tubes 9 and 10, each having an externally threaded fireplace wall engaging pin member 11 protruding coaxially from its outer end. Preferably the pin members 11 are rigidly secured to the end portions of the tube members 9 and 10 by welding. Sleeves 31, Fig. 4, can be used as fillers between the pins 11 and the tubes 9 and 10 if desired. Also preferably nuts 12 on the pin members 11 are positioned against the ends of the tube members 9 and 10 and welded to said tube members so that wrench means can be applied to these nuts 12 to facilitate relatively turning the tubes 9 and 10 to expand them against the side walls 7 of the fireplace. The outermost tube 9 has a nut 13 welded or otherwise rigidly secured within it, Fig. 2, and the innermost tube 10 has a coaxial threaded rod 14 fixedly secured to and protruding from its inner end portion and adapted to be threaded into the nut 13. Relative turning movement of the two tubes 9 and 10 in one direction will extend the combined length of the two tubes and jam the pin members 11 against the side walls 7 of the fireplace. Relative turning movement of the two tubes 9 and 10 in the opposite direction will decrease the over all length of said two tubes. Preferably shallow recesses are formed in the fireplace walls 7 to receive the end portions of the pins 11. This insures a firm and secure anchorage of the pins 11 in the walls 7 of the fireplace.

Two angle or L-shaped brackets 15 of duplicate construction are adapted to be securely held by the extensible cross bar member 9, 10 against opposite side walls of the fireplace. One flange of each L-shaped bracket has a hole 16 therein which fits over one of the pin members 11. A nut 17 is provided on each pin member 11 between the upright flange of the L-shaped bracket 15 and the adjacent nut 12 which is welded to the end portion of the rod 9 or 10. Preferably a spring washer 18 is provided between each nut 17 and the adjacent bracket flange. The nuts 17 are used to clamp the L-shaped brackets 15 against the opposed side walls 7 of the fireplace. A tubular guide sleeve 19 is welded or otherwise

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fixedly secured to the tip portion of the horizontal flange of each L-shaped bracket 15 and extends crosswise of the adjacent tube 9 or 10 below and in close proximity thereto.

The screens 20 are hung on rods 21 which are disposed within a screen carrying bar 22 of channel shaped cross section, see Fig. 3. The inner end portions of the rods 21 can extend past each other and be supported in a step shaped member 23, see Fig. 2. This allows the inner edge portions of the screens to overlap slightly when the screens are completely closed.

The channel shaped screen carrying bar 22 is adjustably supported by the sleeves 19 so that it can quickly and easily be moved toward and away from the fireplace. Also provision is made for vertical adjustment of this channel bar 22 so that the screens 20 can be properly positioned as respects the floor and as respects the top of the combustion chamber opening in the fireplace.

The means for adjustably supporting the screen carrying channel bar 22 comprises two upright brackets 24 of duplicate construction. Each bracket 24 has a forked upper end portion provided with a transverse notch or groove 25 to receive the rear flange of the channel bar 22 and support said channel bar 22 with the concave side thereof downwardly. Each upright bracket 24 also has a longitudinally extending slot 26 to receive a screw 27 by which an arm 28 is adjustably secured to the bracket 24 so as to extend at right angles from said bracket. Each arm 28 is slidably received within the guide sleeve 19 carried by one of the L-shaped brackets 15. Preferably the guide sleeves 19 are of substantial length so that the arms 28 will slide easily therein without binding.

To install this screen in a fireplace 8 shallow indentations are preferably drilled or otherwise formed in the opposed side walls 7 near the top of the fireplace opening to receive the pins 11. The pin members 11 have the L-shaped brackets 15 placed thereon before said pin members are inserted in the indentations in the fireplace side walls 7. After the pin members 11 are positioned in the indentations the rods 9 and 10 are relatively rotated to increase the over all length of said two rod members and press the pin members 11 firmly against the bottoms of the indentations in which they are seated. The L-shaped brackets 15 are then adjusted into the proper position, as shown in Figs. 2, 3 and 4, and the nuts 17 are tightened against these brackets to clamp the brackets securely to the side walls 7 of the fireplace. If desired short prongs or barbs 30, Fig. 4, can be provided on the faces of the brackets 15 which contact the fireplace walls 7 to more securely anchor these brackets in place. In material, such as brick, which is not too hard, the ends of the pins 11 can be made to embed themselves into the brick far enough to hold securely and it is not always necessary to drill holes for the reception of the ends of these pins. The relative turning movement of the two parts 10 and 13 helps to cause the pins 11 to indent their own holes in the sides of the fireplace and the ends of said pins may be roughened, if desired, to facilitate their drilling into the fireplace walls when they are rotated.

The guide sleeves 19 receive the arms 28 and adjustably support the same. The channel bar 22 is supported in the grooves 25 of the upright brackets 24. If desired one or more set screws 29 can be used to secure the bar 22 to each upright bracket 24.

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The arms 28 are freely movable lengthwise in the guide sleeves 19 and the screens 20 can be quickly and easily moved toward and away from the fireplace. Obviously means can be used to prevent the arms 28 from being entirely withdrawn from the guide tubes 19.

The foregoing description and accompanying drawings clearly disclose a preferred embodiment of this invention but it will be understood that changes in the same can be made within the scope and spirit of the following claims.

I claim:

1. In fireplace screen means for supporting collapsible metal draw screens, extensible bar means; devices for extending said bar means into engagement with opposite walls of a fireplace; an L shaped bracket supported by the end portions of said extensible bar means with one member of the bracket disposed upright and having its outer surface positioned against a side wall of the fireplace and with the bracket securely clamped against the said side wall by the extensible bar means and with the other member of the bracket extending inwardly substantially horizontally in spaced relation below the extensible bar means; a substantially horizontal guide sleeve rigidly attached to the inwardly extending member of each bracket and positioned transversely of the extensible bar means; and screen carrying means slidably supported by said guide sleeves for movement toward and away from a fireplace.

2. In fireplace screen means for supporting collapsible metal draw screens, extensible bar means; devices for extending said bar means into fixed engagement with opposite side walls of a fireplace; an L shaped bracket supported by each end portion of said extensible bar means with one member of the bracket disposed upright and having its outer surface positioned against a side wall of the fireplace and with the bracket securely clamped against the said side wall by the extensible bar means and with the other member of the bracket extending inwardly substantially horizontally in spaced relation below the extensible bar means; a substantially horizontal guide sleeve rigidly attached to the inwardly extending member of each bracket and positioned transversely of the extensible bar means; an arm slidably supported in each guide sleeve; an upright bracket extending crosswise of the outer end portion of each arm and adjustably connected with the arm; and a screen carrying bar supported by said upright brackets.

3. In fireplace screen means for supporting collapsible metal draw screens, extensible bar means; bar extending devices embodied in said bar means, whereby the end portions of said bar means can be extended into fixed engagement with opposite side walls of a fireplace; an L shaped bracket supported by each end portion of said extensible bar means with one member of the bracket disposed upright and having its outer surface positioned against a side wall of the fireplace and with the bracket securely clamped against the said side wall by the extensible bar means and with the other member of the bracket extending inwardly substantially horizontally in spaced relation below the extensible bar means; a substantially horizontal guide sleeve rigidly attached to the inwardly extending member of each bracket and positioned transversely of the extensible bar means; an arm slidably supported in each guide sleeve; an upright bracket extending crosswise of the outer end portion of each arm, each upright bracket having a transverse groove

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in its upper end portion; means adjustably connecting each upright bracket with one of said arms; and a screen carrying bar of channel shaped cross section positioned with its concave side downwardly and having one flange thereof supported in the grooves in said upright brackets.

4. In fireplace screen means for supporting collapsible metal draw screens, a cross bar comprising two relatively extensible members; two threaded pin members rigid with the respective outer end portions of said two extensible supporting members; a nut movable on each threaded pin member; supporting member extending means embodied in said two extensible members, whereby the pins on the outer end portions of said relatively extensible supporting members can

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be moved outwardly into clamping engagement with the side walls of a fireplace; and an L-shaped bracket carried by each pin member outwardly from the movable nut on said pin member and adapted to be clamped by the movable nut against the adjacent side wall of the fireplace.

JAMES F. SHANNON.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,275,236	Shannon	Mar. 3, 1942
2,356,892	Shannon	Aug. 29, 1944