March 14, 1933. A. H. BAILEY 1,901,073

FIREPLACE SCREEN

Filed April 6, 1932

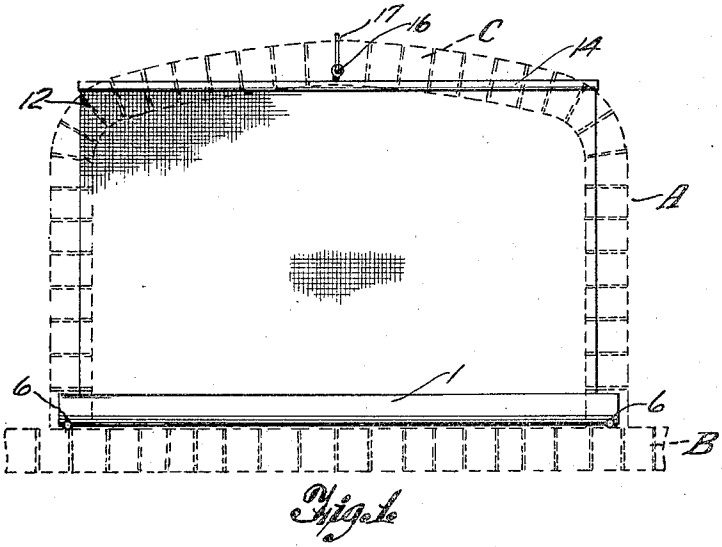


Fig. 1.

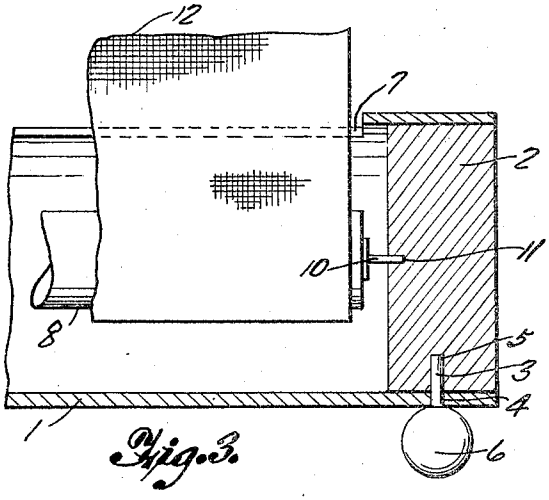


Fig. 3.

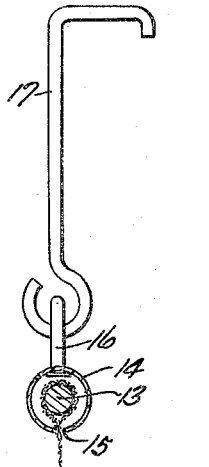
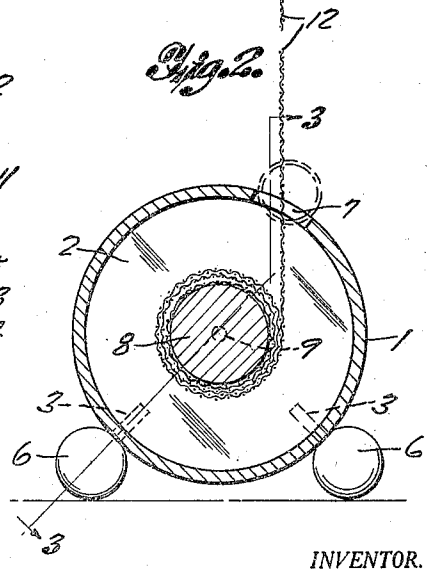


Fig. 2.



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UNITED STATES PATENT OFFICE

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FIREPLACE SCREEN

Application filed April 6, 1932. Serial No. 603,496.

My invention relates to fireplace screens and the main object is to provide a screen which may be readily extended or placed over the mouth of a fireplace to prevent the escape of sparks, soot and the like therefrom.

Another object is to provide a screen of this kind including a housing adapted to rest on the floor or hearth and extend from side to side of the fireplace and a screen mounted on a spring roller in the housing in such manner that it may be pulled upward over the mouth of the fireplace or allowed to roll up within the housing when not in use.

A further object is to provide a screen of this kind in a simple, durable and attractive form.

With these and other objects in view the invention resides in the novel construction and arrangement of parts as hereinafter set forth and claimed, reference being had to the accompanying drawing wherein a preferred embodiment of the invention is shown for exemplification, and wherein:

Figure 1 is a front view of the screen as a whole and showing the screen extended over a fireplace, the latter being shown in dotted lines.

Figure 2 is an enlarged cross section through the screen showing the screen partially drawn outward and broken away medially, the position assumed by the end rod of the screen in the retracted position being shown in dotted lines.

Figure 3 is a section along the line 3—3 in Figure 2, the screen and roller being shown in elevation.

Referring now more particularly to the drawing my invention comprises an elongated tubular housing 1 of such length as to extend from side to side of the fireplace A and project substantially past the inner margin of said sides as shown in Figure 1. End pieces or plugs 2 are mounted in each end of the housing 1 and are secured therein by the pins 3 which extend through apertures 4 in the walls of the housing into sockets 5 in the peripheries of the said plugs and which have enlarged heads whereby they will also act as feet to support the housing. A longitudinal slot 7 is cut in the housing 1 and extends from a point adjacent the inner side of one plug 2 to a point adjacent the inner side of the other plug. This slot 7 is located slightly off center or away from the upwardly disposed portion of the housing and downward on the intended rear portion thereof as best shown in Figure 2 and for a purpose to be described. A roller 8 similar to a conventional window shade roller and containing the usual torsional coil spring (not shown) causing it to normally rotate in one direction is mounted in the housing 1 coaxially therewith and it has its rounded end pin 9 journaled in one end plug 2 while its flat spring operated pin 10 is rigidly mounted in a slot 11 in the other plug 2. A screen 12 formed of screen of suitable mesh and material is secured at one end to the roller 8 and is wound or rolled around the roller and is extended at its free edge or end outward through the slot 7. This outer free edge of the screen 12 is whipped or otherwise secured around a rod or stick 13 which is enclosed within a sleeve 14 having a longitudinally extended slot 15 to pass the screen. This sleeve 14 is of such diameter that it will not pass through the slot 7 and so acts as a stop to limit the inward movement of the screen 12 under the influence of the spring roller 8, it being understood that the spring in this roller is tensioned to normally pull the said screen inward and roll it. This normal position of the sleeve 14 is shown in dotted lines in Figure 2. An eye 16 is secured centrally to the sleeve 14 and a hook 17 is attached to this eye. In use the housing 1 is placed on the hearth B of the fireplace A as near as possible to the face of the fireplace and the screen 12 may then be pulled upward and held in this position by engaging the hook 17 with the projecting upper edge of the mantel or arch C or to a suitably prepared anchorage of any sort. The escape of sparks and the like will thus be prevented but it is obvious that the screen will not materially interfere with a view of the fireplace or the radiation of heat therefrom. By releasing the hook 17 the screen will be pulled downward and rolled around the roller 8. The off center positioning of the slot 7 through which the screen 12

passes disposes said slot directly above the lateral edge of the roller 8 and allows said screen to move inward or outward without coming in contact with the sides of the slot as shown in Figure 2. The weight of the housing 1 is, of course, sufficient to prevent it from being raised when the screen is pulled upward.

While I have herein set forth a certain preferred embodiment of my invention it is understood that I may vary from the same in minor structural details so as best to construct a practical device for the purposes intended, not departing from the spirit of the invention and within the scope of the appended claim.

I claim:

In a device of the kind described, an elongated tubular housing having a longitudinal slot adjacent its intended upper side and plugs mounted in the ends of the housing, radially spaced pins extending through the said housing into the end plugs adjacent the intended lower side of the housing, the said pins having enlarged heads at their outer ends, the said heads extending beyond the periphery of the housing to act as supporting feet therefor, a roller mounted in the housing between the said end plugs, a screen attached at one end to the roller and wound thereon, the outer end of the screen being extended through the said slot and secured around a rod, a sleeve enclosing the said rod and end of the screen and having a slot to pass the screen, an eye attached to the sleeve, and a hook attached to the said eye.

In testimony whereof, I affix my signature.

AGARD H. BAILEY.