

April 19, 1932.

H. E. UMENSETTER

1,854,677

INTERIOR DUST AND SMOKE SCREEN

Filed Dec. 27, 1930

2 Sheets-Sheet 1

Fig. 1.

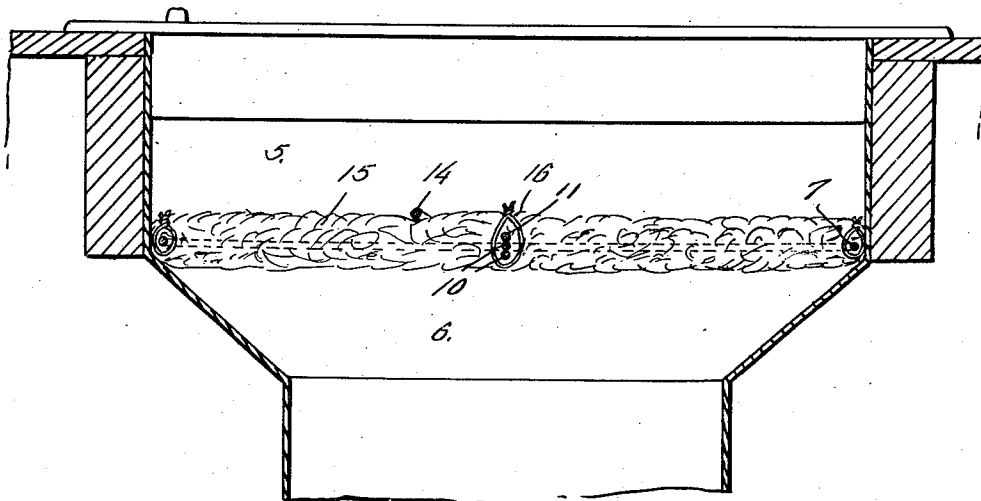


Fig. 4.

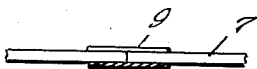
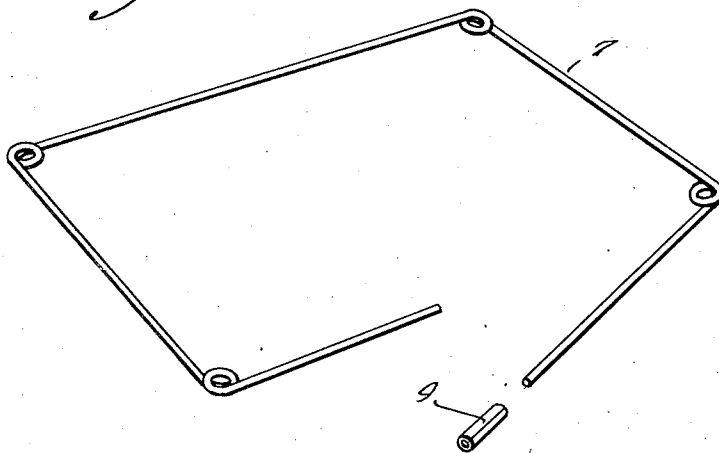


Fig. 6.

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2 Sheets-Sheet 2

Fig. 2.

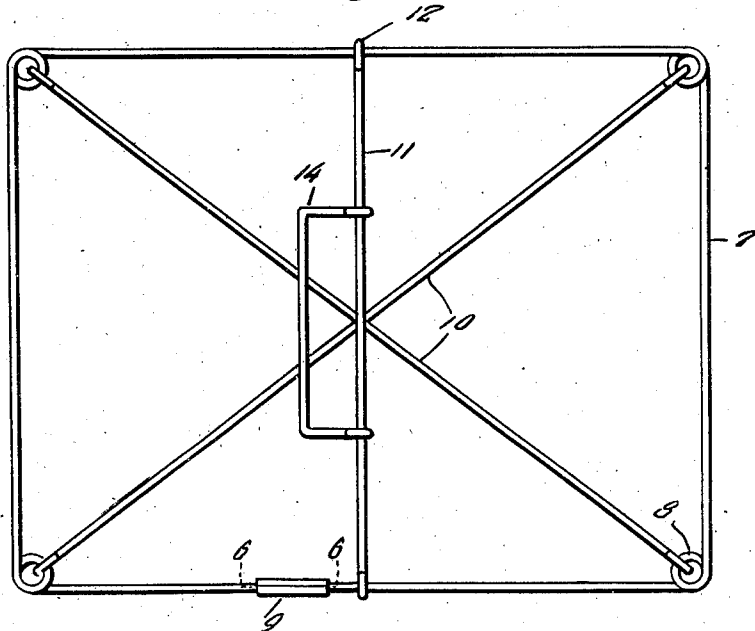


Fig. 3.

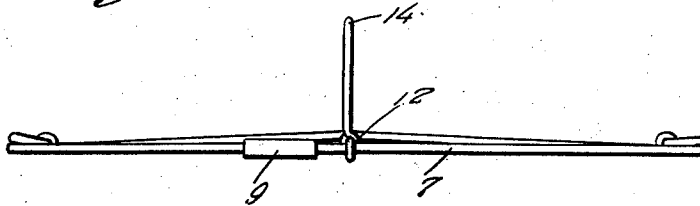
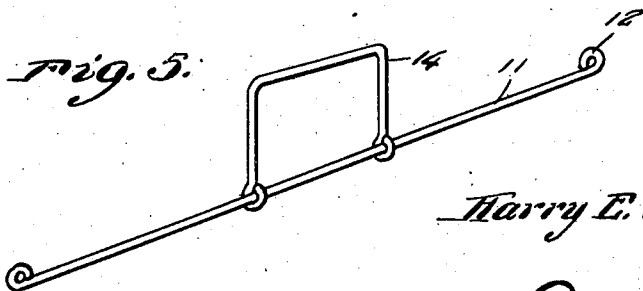


Fig. 5.



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UNITED STATES PATENT OFFICE

HARRY E. UMENSETTER, OF NASHVILLE, TENNESSEE, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO INTERIOR DUST AND SMOKE SCREEN COMPANY, A CORPORATION

INTERIOR DUST AND SMOKE SCREEN

Application filed December 27, 1930. Serial No. 505,131.

The present invention relates to a screen for use in heating registers such as are used in homes, offices and the like and the prime object of the invention resides in the provision of a screen to prevent dust and smoke from coming out through the register into the home, office or the like.

Another very important object of the invention resides in the provision of a screen of this nature which is exceedingly simple in its construction, inexpensive to manufacture, strong and durable, easy to handle, thoroughly efficient and reliable in use and otherwise well adapted to the purpose for which it is designed.

With the above and numerous other objects in view as will appear as the description proceeds, the invention resides in certain novel features of construction, and in the combination and arrangement of parts as will be hereinafter more fully described and claimed.

In the drawings:

Figure 1 is a vertical section through a register showing my improved screen in place.

Figure 2 is a plan view of the frame.

Figure 3 is a side elevation thereof.

Figure 4 is a perspective view of the frame with the cross rods removed.

Figure 5 is a perspective view of the transverse cross rod, and

Figure 6 is a detail section taken substantially on the line 6—6 of Figure 2.

Referring to the drawings in detail it will be seen that the numeral 5 denotes a conventional register, the inner portion 6 of which tapers inwardly. Numeral 7 denotes a frame of suitable shape to fit in the register and will be made in different sizes to fit different sized registers.

In the present exemplification of the invention the frame 7 is formed from a single rod bent into a rectangular formation, the corners being looped to provide eyes 8. The ends of the rod frame are secured together by a slit sleeve 9 or in any other suitable manner.

Numerals 10 denote diagonal rods which have their ends engaged in the eyes 8. Numeral 8 denotes a central transverse cross rod, the ends of which are bent about the sides of

the frame 7 as is indicated at 12. A bail or handle 14 has its ends secured to intermediate portions of the rod 11.

Numeral 15 denotes steel wool or equivalent material which is spread out over the frame and anchored in place by a suitable fastening means such as galvanized wire ties 16. The steel wool may be of suitable thickness and I have found this particular material to be exceedingly efficient and reliable in properly catching the dust and smoke yet not interfering with the proper circulation of the heat through the register. It will be seen that the bail 14 enables one to lift the entire screen out of the register with ease and to place the same back therein after it has been cleaned.

It is thought that the construction, utility and advantages will now be fully understood without a more detail description thereof.

The present embodiment of the invention has been described in considerable detail merely for the purposes of exemplification since in actual practice it attains the features of advantage enumerated as desirable in the statement of the invention and the above description.

It will be apparent that changes in the details of construction, and in the combination and arrangement of parts may be resorted to without departing from the spirit or scope of the invention as hereinafter claimed or sacrificing any of its advantages.

Having thus described my invention, what I claim as new is:

A register screen of the class described formed from steel wool, a frame in the steel wool and means for attaching the steel wool to the frame, said frame being formed from a single rod bent in rectangular formation and having loops at its corners to form eyes, diagonal rods in the frame having their ends engaged in the eyes, a transverse rod fixed to the sides of the frame, and a bail attached thereto.

In testimony whereof I affix my signature.

HARRY E. UMENSETTER.