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T. C. KUNKEL

SCREENED DRAIN

Filed June 3, 1922

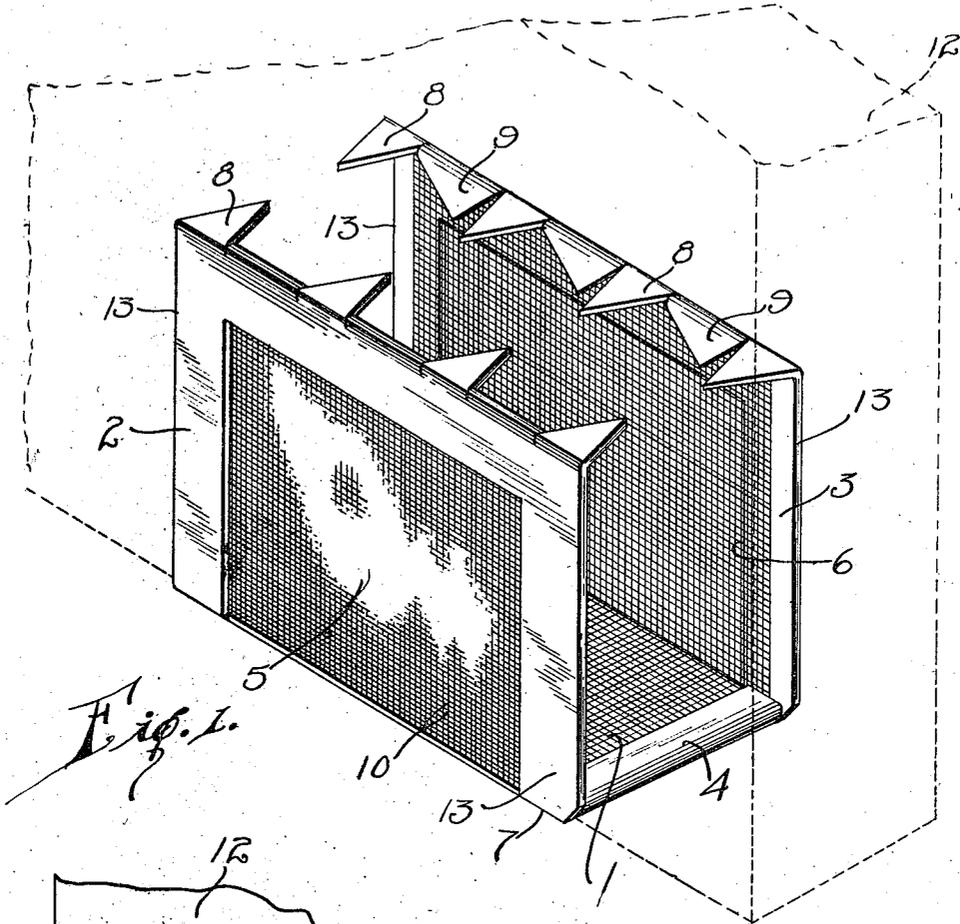


Fig. 1.

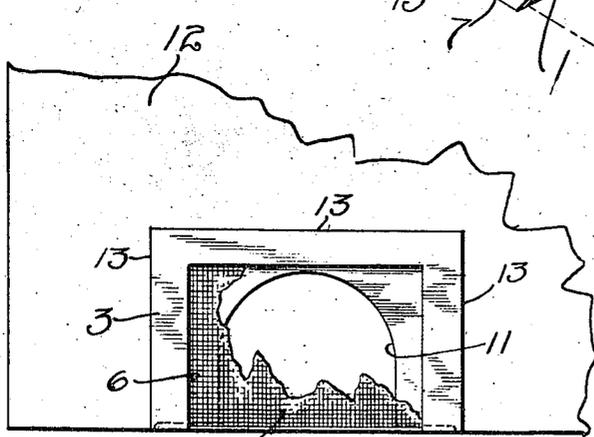


Fig. 2.

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THOMAS CLARK KUNKEL, OF MADRID, NEBRASKA.

SCREENED DRAIN.

Application filed June 3, 1922. Serial No. 565,597.

To all whom it may concern:

Be it known that I, THOMAS CLARK KUNKEL, a citizen of the United States, and a resident of Madrid, in the county of Perkins and State of Nebraska, have invented a new and useful Improvement in Screened Drains, of which the following is a full, clear, and exact description.

My invention relates to improvements in screened drains, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of my invention is to provide a screened drain which is adapted to be used on a window or door screen and which may be easily attached to the ordinary window screen without the use of nails, or screws.

A further object of my invention is to provide a screened drain that will prevent the window screen and window sill from decaying by permitting the water to drain from them.

A further object of my invention is to provide a screened drain that will allow water to drain therethrough at the same time preventing insects, such as flies, mosquitoes, or the like, from entering therein.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings, forming part of this application, in which

Fig. 1 is a perspective view of the device.

Fig. 2 is a front view of the device attached to a screen.

In carrying out my invention, I provide a U-shaped frame consisting of a base portion 1, integral sides 2 and 3, respectively, and integral flanges 4. The sides 2 and 3 have openings 5 and 6 therein, which extend from the bend 7, almost to the top (see Figure 1). The top edges of the sides 2 and 3 have a plurality of teeth 8 which are bent inwardly at right angles to the sides, alternating with flanges 9 which are bent inwardly and downwardly so as to clamp the top edges of the screen portion 10. The screen portion 10 lines the inner walls of the frame covering the openings 5 and 6 and is also clamped by the flanges 4 which

are bent upwardly and around (see Fig. 1), thus holding the screen 10 securely in place.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. In applying the device to the window screen 12, one or more openings 11 can be provided in the bottom of the window screen frame 12, being cut so as to receive the base 1 of the device, thus allowing the bottom of the base 1 to be contiguous with the bottom of the window screen. The U-shaped frame is then applied to the window screen so as to cover the ends of the opening 11, and so as to cause the base 1 to cover the underside of the opening. The sides 2 and 3 may be now manually forced inwardly so as to imbed the teeth 8 within the sides of the window screen 12, thus holding the frame securely in place.

The edges 13 of the sides 2 and 3 extend beyond the opening 11 and abut the sides of the window screen 12, thus preventing any insects, such as flies, mosquitoes, or the like, from entering between the sides of the window screen and the opening. The base 1 abuts the window sill (not shown) and permits water to readily drain therefrom. The device can be removed from the window screen sash 12, the flanges 4 and 9 can be bent outwardly, and the screen portion 10 removed. The new screen portion may now be placed within the device assuming the same position as that of the former screen portion and the flanges 4 and 9 bent down, thus clamping the new screen portion in place. The portion 10 is preferably of wire netting.

It is obvious that the device will work just as efficiently without the screen portion 10 covering the base 1. I have found, however, that it is cheaper to manufacture the device by using one screen portion bent in the manner shown in Figure 1 instead of using two separate screen portions which cover the openings 5 and 6. The device is simple in construction and can be made at small cost.

I claim:

1. The combination with a screen frame having an opening in the bottom thereof, of a U-shaped open frame arranged to receive the bottom portion of the screen frame, and being provided with projections ex-

tending inwardly toward the screen frame for attachment thereto, and wire netting carried by the U-shaped frame and arranged to cover said opening.

- 5 2. A screened drain comprising a U-shaped frame, the sides of said frame having openings therein, wire netting cover-

ing said openings, the top edges of said frame having a plurality of teeth alternating with flanges, said flanges adapted to be bent over for securing said wire netting to said frame, and said teeth being adapted to secure said U-shaped frame to a screen frame. 10

THOMAS CLARK KUNKEL.