F. F. WRIGHT

EAVES TROUGH STRAINER

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INVENTOR

WITNESS

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ATTORNEY
To all whom it may concern:

Be it known that Frank F. Wright, citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, has invented certain new and useful Improvements in Eaves-Trough Strainers, of which the following is a specification.

My invention relates to improvements in eaves troughs and has for its primary object to provide means for filtering the rain water collected by the trough, prior to its discharge into the drain spout, to remove leaves, twigs and other foreign matter, so the same will not clog the drain spout.

A further object is to provide a conduit extending from the trough and having a strainer, so arranged the foreign matter collected will be cast-off the strainer by the flow of water, so as not to interfere with the passage of the water through the conduit.

Another object resides in the provision of a strainer having means to facilitate the washing of the foreign matter over the strainer, and means to assist the percolation of the water through the strainer.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawing forming a part of this specification and in which like numerals are employed to designate like parts throughout the same—

Figure 1 is a perspective view of my invention attached to an eaves trough.

Figure 2 is a detail perspective view of the same, and,

Figure 3 is a longitudinal sectional view of the same attached to a trough.

In the drawing, wherein for the purpose of illustration I have shown a preferred embodiment of my invention, the numeral 5 designates a conventional type of eaves trough employed to collect the rain water cast off from the roofs of buildings and the like.

As clearly shown in Fig. 1, the trough is inclined and near its lower end a portion of the back side is cut away leaving an outlet 6, through which the water is discharged into the conduit 7 connected to the usual drain spout 8.

The body of the conduit 7, is substantially U-shape having one end opened and joined to the outlet 6, by means of the flange 9 and rivets 10. The conduit extends downwardly at a sharp angle to the trough 5, the lower end having a wall 11 and a discharge pipe 12, extending from the wall near the bottom which connects the conduit with the drain spout 8. A strainer 13 extends lengthwise of the conduit and is diagonally disposed therein, so the upper end is flush with the bottom of the trough 5 and the lower end is flush with the upper edge of the wall 11, resting on the inwardly projecting ledge 11' formed integral with the wall. Side portions 14 are bent upwardly from the trough to insure the washing-away of the foreign matter collected thereby.

Since the foreign matter deposited on the strainer will have a tendency to cling thereto, a plurality of longitudinal slide bars 16 are secured to the top side of the strainer, being arranged in spaced parallel relation and extending approximately the length of the strainer. These bars are slightly raised to space the foreign matter from the strainer and will insure the washing of the foreign matter down the bars and over the end of the strainer. The spaced angle bars 17 extending transversely across the bottom of the strainer are secured to the underside of the strainer and sides of the conduit and assist the percolation of the water through the strainer. It is a known fact that the water will have a tendency to cling to the bottom of the strainer, but on striking the bars 17 will drop into the conduit, thus facilitating the passing of the water through the strainer.

While in the drawing the strainer is shown constructed of wire mesh it is apparent that equally good results could be obtained by using a perforated plate, grate or other filtering means.

It is to be understood that the form of my invention herewith shown and described is to be taken as a preferred example of the same, and that certain changes in the shape,
size, and arrangement of parts may be re-
sorted to without departing from the spirit of
the invention or the scope of the sub-
joined claims.

Having thus described my invention, I
claim:

1. A device of the character described
comprising a conduit, a strainer diagonally
disposed within said conduit, said conduit
and strainer being inclined downwardly
from the eaves trough and transversely ex-
tending cross bars secured to the underside
of said strainer having a depending portion
at right angles to said strainer.

2. In a device of the character described,
the combination with an eaves trough hav-
ing an opening, of a conduit having an open
end secured to the trough at said opening
and inclined downwardly therefrom, a
strainer diagonally disposed within said
conduit having its lower end flush with the
edge of the conduit, spaced angle bars ex-
tending transversely across the underside of
said strainer, having one side depending at
right angles thereto, and a discharge pipe
extending from the lower end of said con-
duit.

3. In a device of the character described,
the combination with an eaves trough, of an
open conduit having a wall at its lower end,
said conduit being inclined downwardly
from the trough and having communication
therewith, a strainer diagonally disposed
within said conduit having its upper end
flush with the bottom of the trough and its
lower end flush with the upper edge of the
end wall of the conduit, relatively wide flat
longitudinal slide bars mounted on the top
side of said strainer in spaced relation,
spaced cross bars secured to the underside of
said strainer having a side depending at
right angles to said strainer and a discharge
pipe extending from the end wall of said
conduit.

In testimony whereof I affix my signature.
FRANK F. WRIGHT.