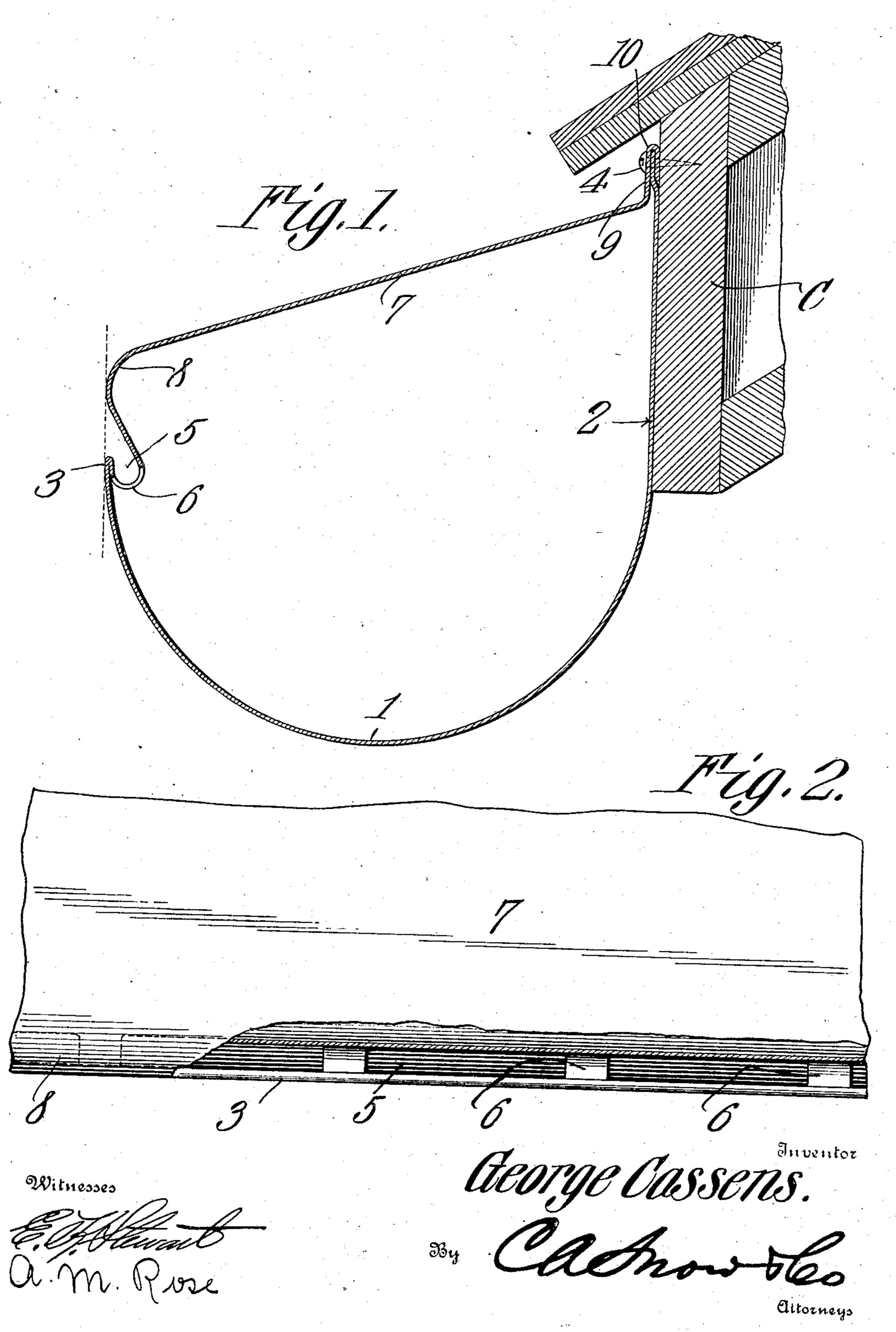
## G. CASSENS. EAVES TROUGH. APPLICATION FILED DEC. 11, 1907.



## UNITED STATES PATENT OFFICE.

GEORGE CASSENS, OF HAMEL, ILLINOIS.

## EAVES-TROUGH.

No. 891,405.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed December 11, 1907. Serial No. 406,054.

To all whom it may concern:

Be it known that I, George Cassens, a citizen of the United States, residing at Hamel, in the county of Madison and State 5 of Illinois, have invented a new and useful Eaves-Trough, of which the following is a specification.

This invention relates to eaves troughs.

The object of the invention is to provide a 10 novel, simply constructed, cheap, durable, and thoroughly efficient article of this character that shall be peculiarly adapted for conducting water, falling upon the roof of a building in connection with which it is used, 15 to a suitable cistern or reservoir, and, at the same time, preventing transmission along with the conserved water of vegetable matter, in the form of twigs or leaves, whereby contamination of the water is obviated and 20 the rotting away of the trough, due to retention of such matter, is positively precluded. Furthermore, to simplify and cheapen the construction of such articles, and to facilitate their attachment to place upon the cor-25 nices of buildings.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists, generally stated, in a combined eaves trough and 30 shield made from a single piece of metal and provided with means for catching rain water, and also for preventing passage to the trough of leaves, twigs, or the like, whereby the conserved water will be clean and fit for human

35 consumption.

The invention consists, further, in the various novel details of construction of an eaves trough, as will be hereinafter fully de-

scribed and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, Figure 1 is a view, in vertical transverse section, through an eaves trough 45 constructed in accordance with the present invention, and through the cornice of a building to which it is attached. Fig. 2 is a top plan view of the eaves trough.

The trough or body 1 is herein shown as 50 approximately semi-circular in cross section, although this is not essential, as it may be of other contours, and still be within the scope of the invention. The rear side 2 of the trough is extended upward any desired dis-55 tance above the front side 3 thereof and is | gutter, that the bulk of the vegetable matter 110

secured to the cornice C of the building, as by screws or nails 4, one of which is shown in Fig. 1. The front side of the trough is rebent to form a gutter 5, the bottom of which is semi-circular, and is provided with longi- 60 tudinal orifices 6, which may be of any preferred length, and constitute strainers through which the water passes to the trough or body and thence to the point of discharge. From the gutter 5 the front edge is continued 65 upward any desired distance and then is bent or deflected to form an imperforate shield or cover 7 that is disposed at the proper upward incline to insure shedding of the water. It will be noted that the point of juncture be- 70 tween the rear wall of the gutter 5 and the shield 7 is a curve, as shown at 8, and this will insure the proper travel of the water from the shield or cover into the gutter. The rear edge of the shield or cover is bent 75 to lie parallel with the rear side of the gutter at 9, at which point the fastening means 4 are passed through the shield and the said trough wall, and the upper edge of the shield is rebent to form a bead 10 in which the 80 upper edge of the rear wall of the trough is seated, said edge being slightly deflected away from the cornice for this purpose.

By constructing the trough and shield from a single piece of metal, and by providing 85 the bead 10 to interlock with the upper edge of the rear wall of the trough, the employment of braces secured to the shingles and to the trough, such as are usually employed, are rendered entirely unnecessary, thereby ma- 90 terially cheapening the installment of the trough, and measurably simplifying its con-

struction.

Generally, one row of fastening devices, located as illustrated, will be all that is neces- 95 sary to hold the trough assembled with the cornice; but, if desired, a second row of screws or nails may be employed for this purpose, disposed adjacent to the lower edge of the cornice, and being positioned in advance 100 of the fastening devices 4.

It will be obvious that by the employment of the perforated gutter 5, which also subserves the function of a strainer, that the passage of leaves and twigs through the 105 trough will be precluded, so that the purity of the conserved water will be assured, and, further, by the disposition of the front side 3 of the trough relatively to the rear wall of the

will be swept over the side 3 and thus be prevented from lodging in the gutter and choking the orifices 6.

The improvements herein defined are sim-5 ple in character, may be readily carried into practice, and will be found thoroughly effi-

cient for the purposes designed.

The peculiarity of this construction resides in the fact that the rear wall of the gut-10 ter 5 inclines forward toward the curved junction which while permitting the water to flow over the curved surface into the gutter insures the shedding of leaves and other materials so as to fall outside of the gutter and 15 thus avoid choking the latter.

I claim:—

1. An eaves trough having its forward portion rebent to form a gutter the bottom of which is perforated to constitute a strainer.

2. An article of the class described com-

prising, in an integral structure, a trough or body, a combined gutter and strainer arranged at the forward portion of the trough, and a shield or cover disposed over the trough and overhanging the gutter.

3. An article of the class described comprising, in a one piece structure, a trough or body, a gutter arranged at the forward portion thereof and constituting a strainer, and a shield or cover having its rear edge inter- 30 locked with the upper edge of the rear side of the trough.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature

in the presence of two witnesses.

GEORGE CASSENS.

Witnesses: WM. BUHRMANN, H. E. Wolf.