

No. 670,001.

Patented Mar. 19, 1901.

S. B. MORSS.  
COMBINED CURB AND GUTTER.

(Application filed Feb. 15, 1900.)

(No Model.)

Fig. 1.

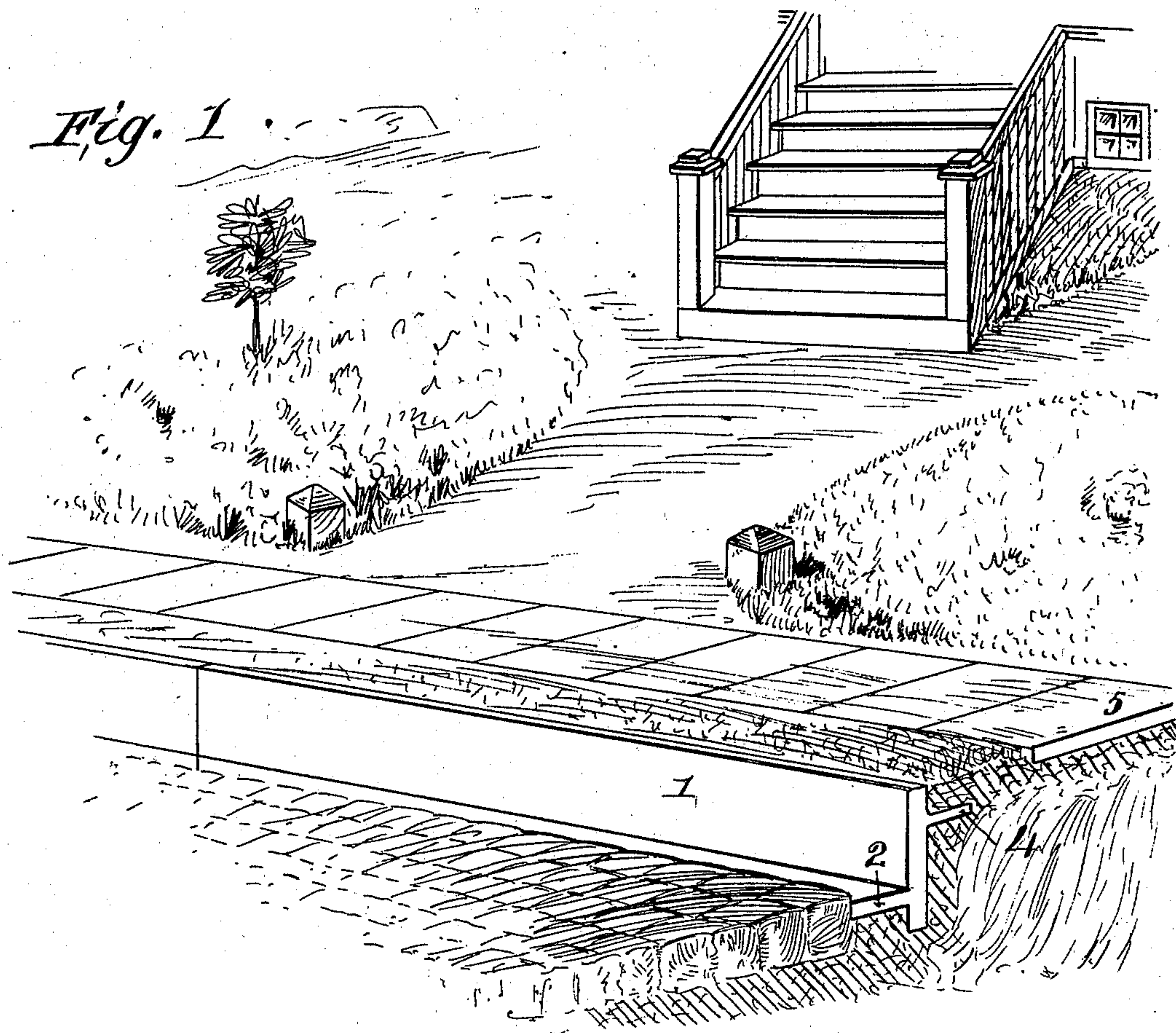
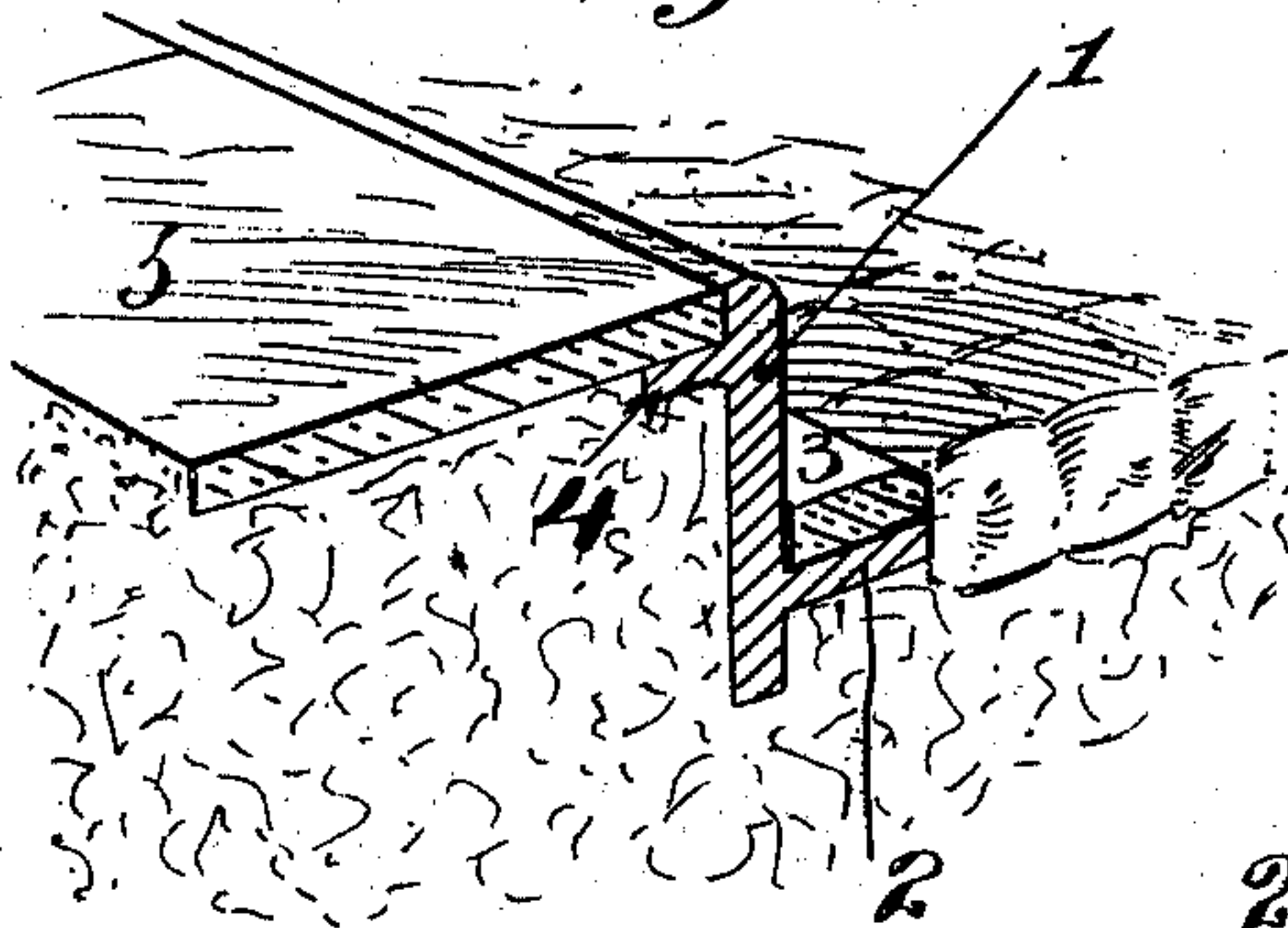


Fig. 2.



Witnesses.  
C. W. Benjamin  
J. E. Turner.

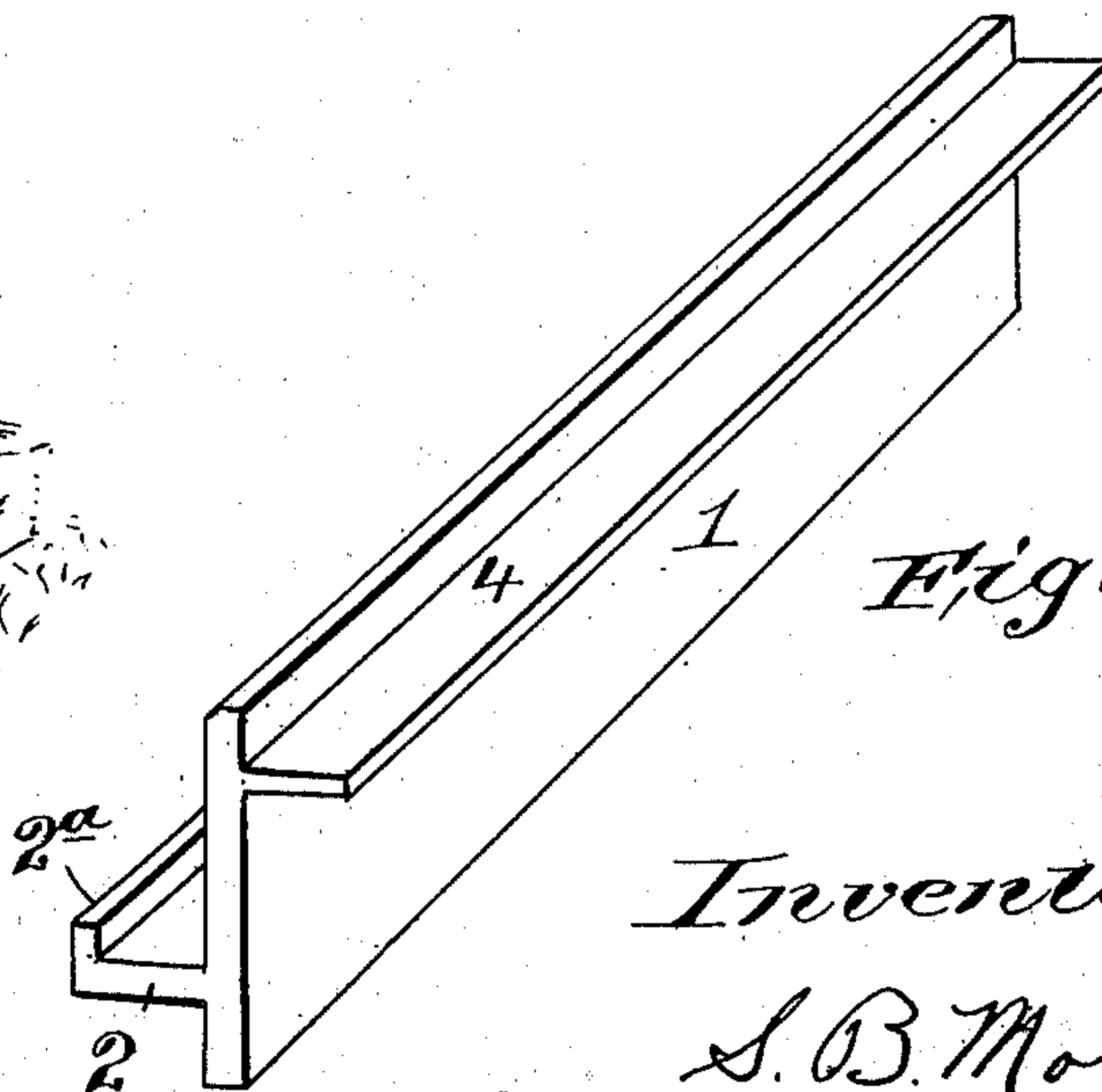


Fig. 3.

Inventor;  
S. B. Morss,  
by F. F. Bourne  
his Atty



# UNITED STATES PATENT OFFICE.

STEPHEN B. MORSS, OF RAHWAY, NEW JERSEY.

## COMBINED CURB AND GUTTER.

SPECIFICATION forming part of Letters Patent No. 670,001, dated March 19, 1901.

Application filed February 15, 1900. Serial No. 5,265. (No model.)

*To all whom it may concern:*

Be it known that I, STEPHEN B. MORSS, a citizen of the United States, residing at Rahway, Union county, State of New Jersey, have  
5 invented certain new and useful Improvements in a Combined Curb and Gutter, of which the following is a specification.

The object of my invention is to provide a combined curb and gutter made of metal in  
10 one piece which shall be cheap to manufacture and to place in position, durable and effective in use, and capable of remaining in proper position, so as not to become displaced through the action of frost, tree-roots, or  
15 weight of traffic.

In carrying out my invention I provide a vertically-disposed longitudinally-extending curb-plate having a horizontally-extending web near the lower edge to form a gutter or  
20 support for a gutter block or stone, and a horizontally-extending web near the upper edge projecting toward the sidewalk to receive upon it the earth of the sidewalk or the sidewalk stone or paving.

Reference is to be had to the accompanying drawings, forming part hereof, wherein—

Figure 1 is a perspective view of my improved curb and gutter in use where the sidewalk-paving does not reach to the curb. Fig.  
30 2 is a perspective view, partly in section, showing my improvements in use where a flagstone or corresponding paving extends to the curb; and Fig. 3 is a perspective view of a combined curb and gutter.

In the accompanying drawings, in which similar numerals of reference indicate corresponding parts in the several views, 1 indicates a curb, which is shown in the form of a vertically-disposed longitudinally-extending  
40 plate or beam, preferably made deeper than wide and of suitable metal, such as iron or steel, adapted to be set on edge at the junction of a roadway with a sidewalk or pathway, so as to form a curb or protection for the  
45 vertical edge of the latter.

2 is a web extending horizontally from the plate 1 and projecting toward the roadway, being shown located at a short distance above the lower edge of the curb-plate 1 and adapted  
50 to form a gutter, the outer edge of the web

2 being adapted to be engaged by the adjacent paving-blocks or other material of the road-bed.

The curb-plate 1 and the gutter-web 2 are shown made in a single piece of material, 55 preferably by casting or rolling metal in the desired form. The gutter-web 2, particularly for use in the country or small towns or cities, serves as a gutter and need not be covered by stone, asphalt, or other paving material. This gutter-web, however, is adapted to have a stone or other paving material 3  
60 mounted upon it, as shown in Fig. 2, which may be stone independent of the road-bed paving or a continuation of the latter, such  
65 as where asphalt is placed upon the road-bed, in which case the asphalt paving may cover the gutter-web 2 and the road-bed in a continuous layer.

In some cases it may be desirable that the gutter-web 2 be capable of forming a channel 70 for the passage of water irrespective of the contiguous road-bed paving, and for this purpose I provide the web 2, at or near its outer edge, with a rib or flange 2<sup>a</sup>, as shown 75 in Fig. 3, preferably made integral with the gutter-web 2. In either event the gutter block or covering 3 may be used or dispensed with, as found desirable. The gutter-plate 1 is also provided near its upper edge with a  
80 horizontally-extending web 4, that projects from the side of the plate opposite to the web 2 and extending toward the sidewalk. The distance of the web 4 from the upper surface of the gutter-plate 1 is preferably such that 85 earth adjacent to the sidewalk may rest upon the same or so that the flagstone or other sidewalk-paving material may rest upon the web 4. In either case the web 4 is buried in the  
90 earth and rests upon the same, as illustrated in Figs. 1 and 2.

It will be seen that as the curb-plate 1 and its webs 2 4 are made in a single piece of material no bolts or fastening devices are needed and that the gutter-web 2 rests upon the earth 95 that is tamped or packed under it and serves as a support for the material used in the paving of the roadway or to support or retain in place the gutter-stone largely used in small towns and villages. It will also be seen that the 100



curb-plate rests against the earth adjacent to the sidewalk and that as the two webs 2 and 4, which project from opposite faces of the gutter-plate, rest upon the earth the combined curb and gutter is evenly balanced and is thereby prevented from falling either forward or backward. In other words, it is retained in an upright position. It is also prevented from settling because of the large surface of the webs presented to the earth. The sections of the combined curb and gutter may be made in suitable lengths, and as they can be made comparatively long the great weight resting upon the webs will prevent them from tilting at the ends. Furthermore, should a depression occur beneath the curbing at some point the latter would act as an arch or bridge over the same until it could be repaired or filled in, thus avoiding the necessity of taking up and relaying the curb, which would be

necessary in the old style of stone blocks used in curbing.

Having now described my invention, what I claim is—

A combined curb and gutter plate, consisting of a beam, adapted to be set vertically, and having on one side near the lower edge, an outwardly-projecting plate, to form a gutter or support for a gutter, and having on the opposite side below the upper edge of the beam, an outwardly-extending plate, the portion of the beam extending above the plate, serving with the plate to form a seat for the abutting edge of a pavement, substantially as described and shown.

STEPHEN B. MORSS.

Witnesses:

F. E. TURNER,  
T. F. BOURNE.