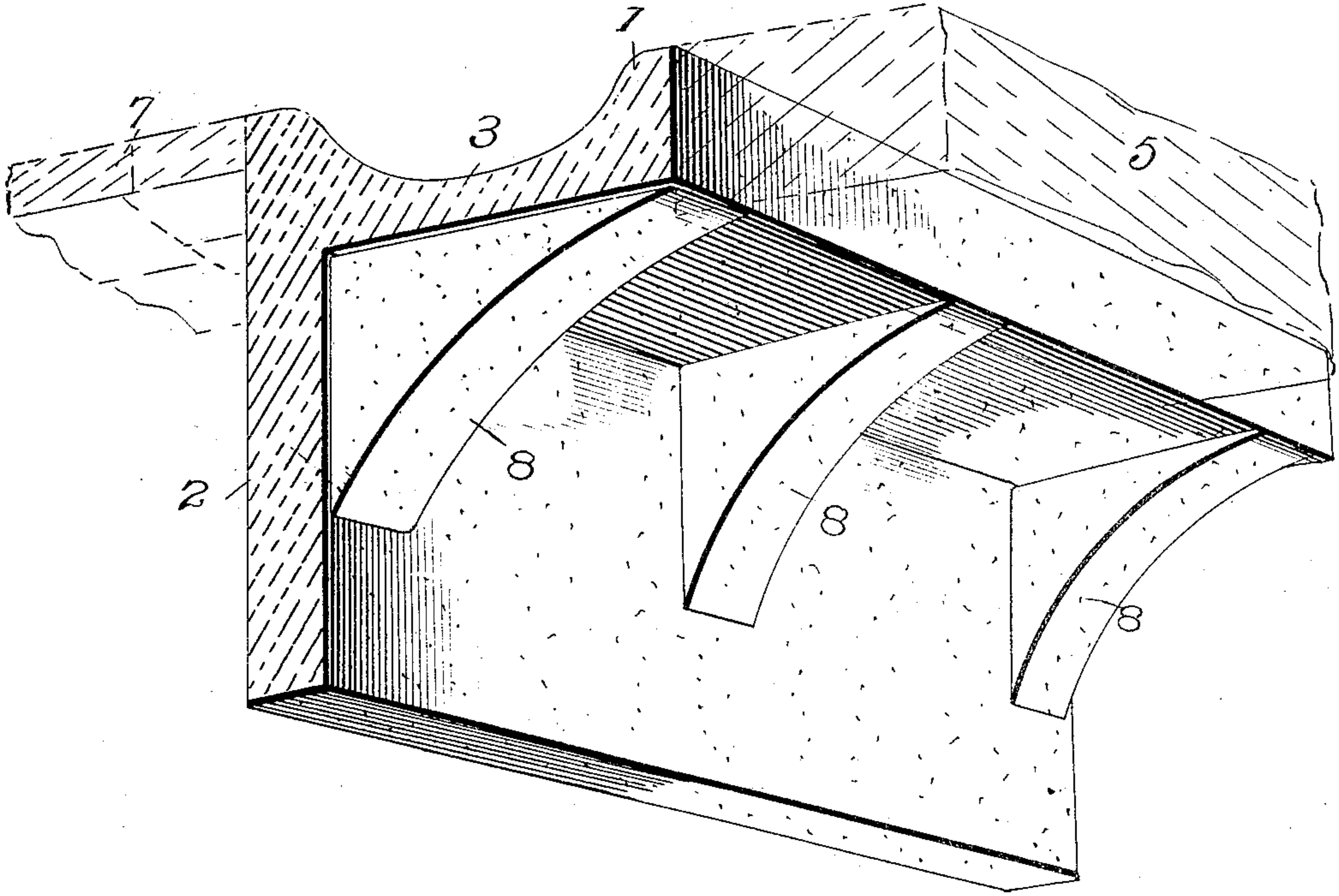


No. 836,903.

PATENTED NOV. 27, 1906.

B. H. STURMAN.  
COMBINED CURB AND GUTTER.

APPLICATION FILED NOV. 15, 1905.



Witnesses

*W. B. Williams*  
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# UNITED STATES PATENT OFFICE.

BENJAMIN H. STURMAN, OF POTTSVILLE, PENNSYLVANIA.

## COMBINED CURB AND GUTTER.

No. 836,903.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed November 15, 1905. Serial No. 287,525.

*To all whom it may concern:*

Be it known that I, BENJAMIN H. STURMAN, a citizen of the United States, residing at Pottsville, in the county of Schuylkill and State of Pennsylvania, have invented certain new and useful Improvements in a Combined Curb and Gutter, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to combined curbs and gutters, and more particularly to those constructed of plastic compositions—such as cement, concrete, and the like—one of the objects being to provide a device of the character described that shall be simple and inexpensive in construction, easily molded, durable, and which is readily adapted for use with any of the ordinary constructions of street or curb and which will have the effect of augmenting or strengthening a curb already set where it is desirable to place a gutter adjacent to a curb.

A further object is to provide an integrally-formed curb and gutter that shall be so constructed as to overcome the effects of frost or heat upon the earth beneath the street or pavement, and thereby prevent the displacement of sidewalks.

Other objects and advantages of my invention, as well as the structural features by means of which these objects are attained, will be made clear by an examination of the specification, taken in connection with the accompanying drawing, in which the same reference-numerals indicate corresponding portions throughout, and in which is shown a sectional perspective of the combined curb and gutter.

Referring to the drawing by numeral, 1 denotes a gutter composed of concrete, cement, or the like and having formed integral therewith and depending at right angles from one edge thereof a vertical wall 2, which operates as a curb and frost-resister. The gutter 1 comprises an oblong body having a uniform concave upper surface 3 and a flat base, which is adapted to rest upon the earth. Abutting the edge of the gutter on one side is the street-paving 5, and abutting on the opposite side is the sidewalk 7.

The combined curb and gutter has formed upon its bottom and outer faces integral brackets or braces 8, which have the effect of bracing and reinforcing the entire structure, so that when the device is in operative position between a sidewalk and street there will be no danger of longitudinal or lateral displacement by reason of the action of frost or heat, the earth being packed in between the brackets or braces, operating to check any movement, particularly longitudinal. Moreover, it frequently occurs, particularly in large cities and on streets where traffic is heavy, that loaded wagons and heavy vehicles wheel into the gutter, especially in loading and unloading the contents thereof, and the great difficulty heretofore experienced has been to prevent cement or concrete gutters from becoming cracked or broken, and it is for the purpose of obviating the expense and inconvenience caused by this cracking or breakage that I employ the form of gutter shown.

Having thus described my said invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The herein-described combined curb and gutter formed of an integral body of plastic material and comprising a straight vertical wall of sufficient depth to extend below the frost-line, a gutter-block formed integral with the wall upon one of its sides, said gutter-block projecting at right angles from the wall at its top and extending longitudinally of the wall, the top of said gutter-block being flush with the top of the wall and having formed therein a longitudinally-extending channel to provide a gutter, and transversely-extending brackets formed integral with the wall and the under side of the gutter-block to reinforce and support the latter, substantially as shown and for the purposes set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

BENJAMIN H. STURMAN.

Witnesses:

WM. M. THOMPSON,  
FRANK F. STURMAN.