

E. E. SCHACHNER.
SIDEWALK LIGHT.

APPLICATION FILED NOV. 3, 1908.

952,049.

Patented Mar. 15, 1910.
2 SHEETS—SHEET 1.

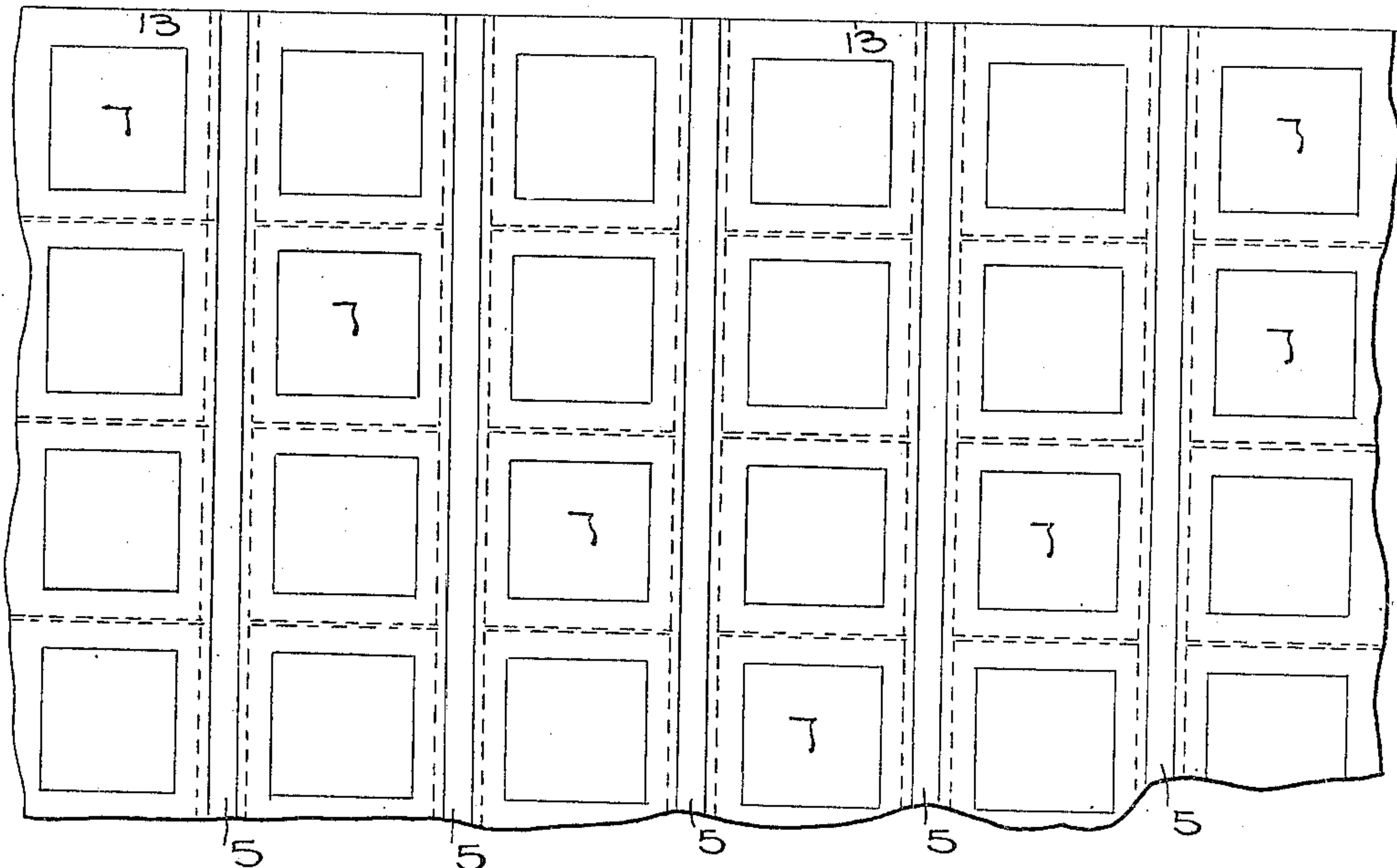


FIG. 1

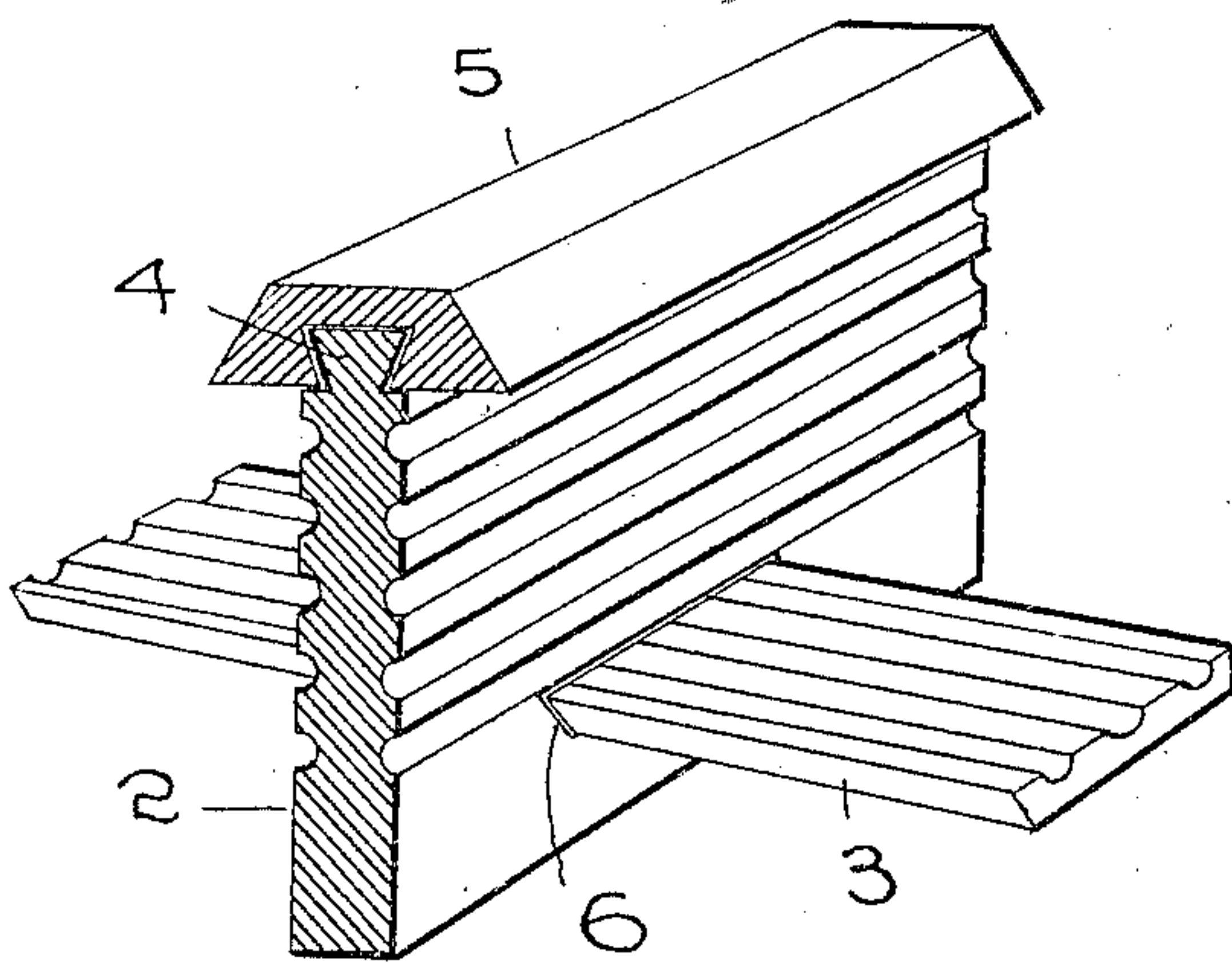


FIG. 5

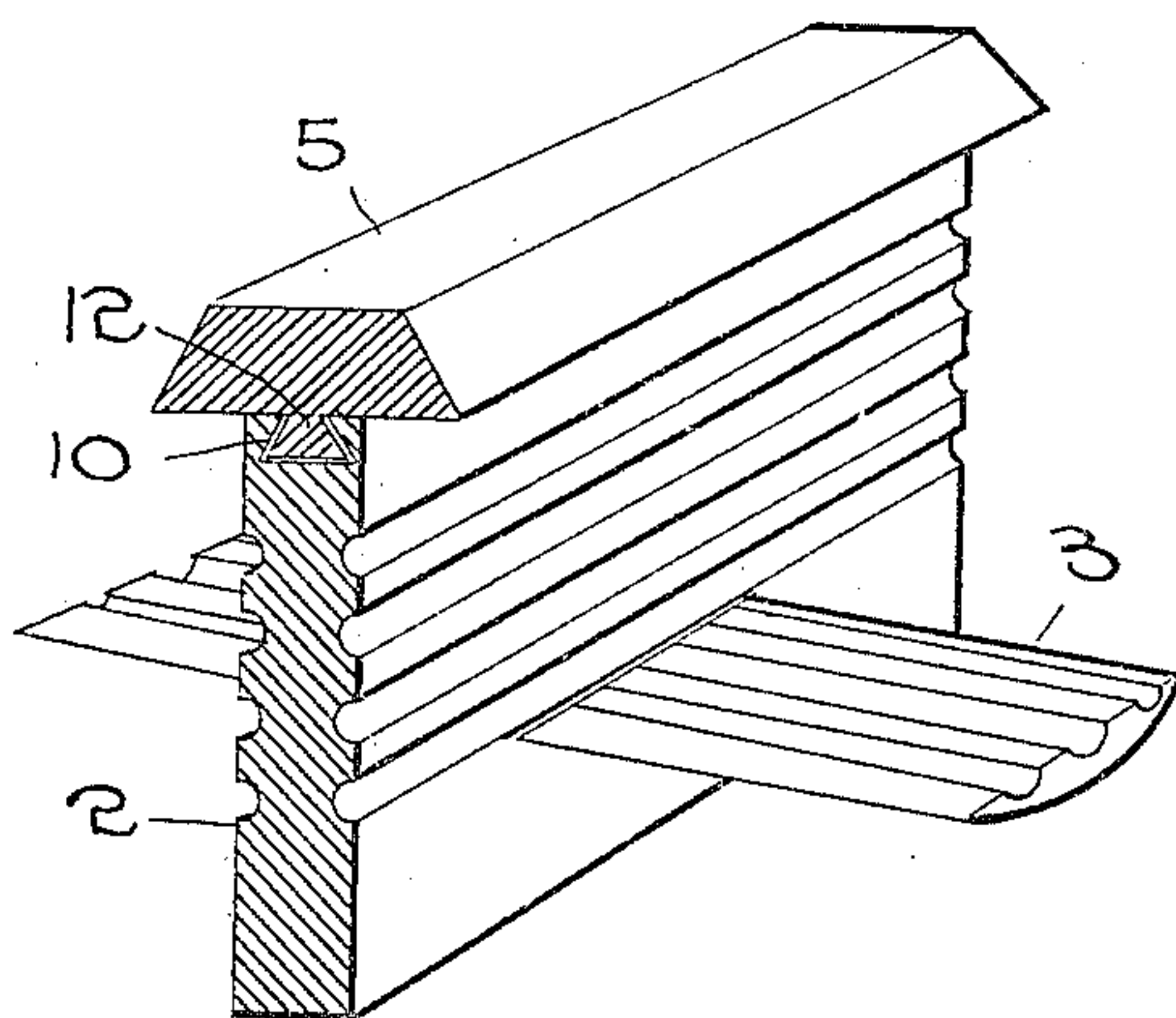


FIG. 6

WITNESSES:

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U. A. Ogden

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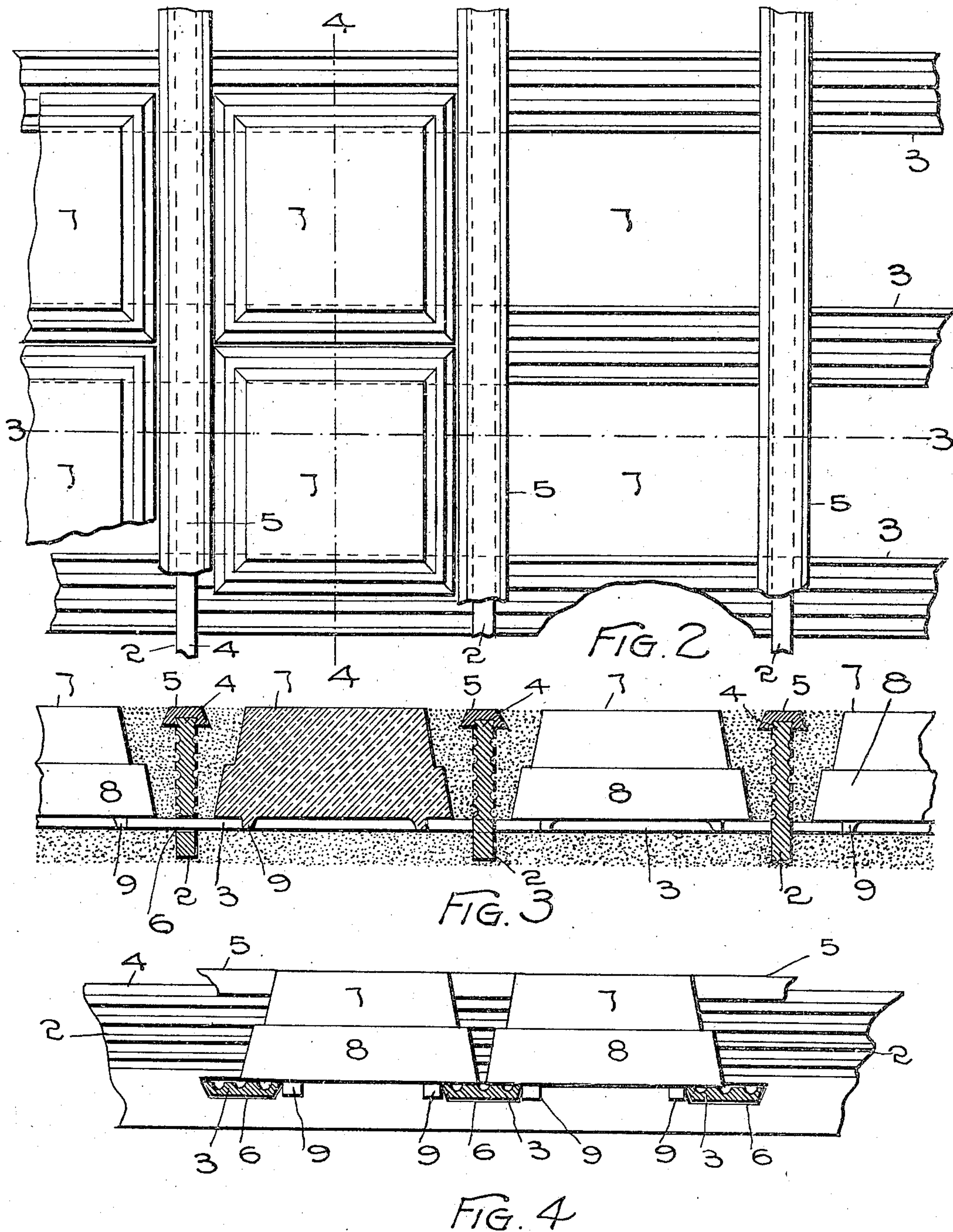
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2 SHEETS—SHEET 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWARD EDMUND SCHACHNER, OF DENVER, COLORADO.

SIDEWALK-LIGHT.

952,049.

Specification of Letters Patent. Patented Mar. 15, 1910.

Application filed November 3, 1908. Serial No. 460,894.

To all whom it may concern:

Be it known that I, EDWARD E. SCHACHNER, a citizen of the United States of America, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in Sidewalk-Lights, of which the following is a specification.

This invention relates to improvements in the construction of sidewalk, roof and floor lights and its object is to provide a light, durable effective and of simple construction which is capable of being placed in position over a vault, or other apartment irrespective of the pattern to be used.

A further object of the invention resides in the provision of soft metal treads which being associated with the light structure in a plane with the upper faces of the lenses included therein, present an anti-slipping surface and thus promote the safety of pedestrians passing over the vault over which the structure is disposed.

Further objects of the invention will be brought out in the following description, reference being had to the accompanying drawings in the various views of which like parts are similarly designated and in which—

Figure 1—represents a plan view of a sidewalk or other surface equipped with the improved light. Fig. 2—an enlarged plan view of the supporting frame and lenses, the surrounding cement having been omitted. Fig. 3—a section taken along the line 3—3, Fig. 2. Fig. 4—a section along the line 4—4, Fig. 2. Fig. 5—a perspective fragmentary view of the bars included in the frame, and Fig. 6—a similar view, illustrating a modified construction of the parts.

The improved sidewalk light comprises a supporting framework composed of a series of parallel beams 2 and a plurality of bars 3 which are carried by the beams in transverse relation thereto. The beams 2 are formed at their upper ends with dove-tail tongues 4 which, in practice, occupy correspondingly shaped grooves in the under surface of treads 5 which are composed of lead or other soft metal. These treads are preferably placed in position by means of pressure rollers which force them on to the tongues 4 and thereby rigidly connect them to the beams. The beams 2 are furthermore formed in proximity to their lower edges,

with a series of equidistant transverse slots 6 for the reception of the before mentioned bars 3 whose under sides may be beveled as in Fig. 5 or rounded as shown in Fig. 6 so that the light rays striking the bars, through the lenses supported thereon, at an angle of forty-five degrees or less can freely pass into the vault over which the structure is placed. The lenses 7, above referred to, may be of any desired design, preference being given to the truncated-pyramidal form illustrated in the drawings. Flanges 8 surrounding the lenses at their lower ends, aid in securing them in the plastic material in which they are embedded while, downwardly projecting lugs 9, prevent their lateral displacement, by engagement with the edges of the adjacent bars 3.

The vertical faces of the beams 2, as well as the upper horizontal surfaces of the bars 3, may be longitudinally corrugated as is shown in the drawings for the purpose of interlocking the parts securely with the surrounding cement and to thus form a joint impervious to moisture.

In place of forming the tread-receiving tongue on the beams 2, the latter may be provided with dove-tail grooves 10, as is shown in Fig. 6 of the drawings in which case the treads are formed with longitudinal tongues 12, or the construction may be simplified by omitting the non-slipping treads as in lights of small dimensions, or in places where they are not employed to support pedestrians.

When the structure is placed in a sidewalk to cover a subterranean vault, the beams 2 are placed at right angles to the building line, indicated by the numeral 13 in Fig. 1 of the drawings, and the lens-supporting bars 3, extend, in consequence, in parallel relation thereto.

The consecutively arranged lenses 7, may be loosely placed upon the bars 3, intermediate the beams 2, or they may be secured thereto by cement or other fastening means, and after the several parts have thus been placed in their relative positions, the entire structure is embedded in a bed of plastic material such as cement, the upper surface of which is level with those of the non-slipping treads 5 and the interposed lenses 7.

I wish it understood that, while I have shown and described my construction in the best form now known to me variations

in the form and arrangement of the parts, may be availed of within the spirit of my invention.

What I claim and desire to secure by Letters Patent is:

1. In a sidewalk light, a frame work composed of parallel beams whose vertical faces are corrugated, transverse bars supported upon the beams and lenses supported on the said bars, the various parts being embedded in plastic material.

2. In a sidewalk light, a frame work composed of parallel beams, corrugated, transverse bars, supported thereon and lenses supported on the said bars, the various parts being embedded in plastic material.

3. In a sidewalk light, the combination of

a framework composed of interconnected beams and bars arranged at right angles to each other, lenses supported upon said bars between said beams, anti-slipping treads mounted upon the upper surface of said beams and having their side edges projecting beyond the side faces of said beams, and a filling of plastic material surrounding the lenses and engaging the under surfaces of the treads.

In testimony whereof I have affixed my signature in presence of two witnesses.

EDWARD EDMUND SCHACHNER.

Witnesses:

FRANK RENO,
J. JEWELL.