

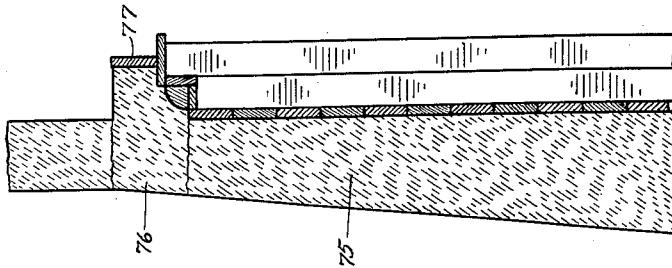
D. B. LUTEN.

WALL.

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934,411.

Patented Sept. 14, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

DANIEL B. LUTEN, OF INDIANAPOLIS, INDIANA.

WALL.

934,411.

Specification of Letters Patent. Patented Sept. 14, 1909.

Original application filed November 1, 1906, Serial No. 341,805. Divided and this application filed March 29, 1909. Serial No. 436,644.

To all whom it may concern:

Be it known that I, DANIEL B. LUTEN, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Walls, of which the following is a specification.

The object of my invention is to provide an improved process of constructing walls and copings of concrete so that irregularities will not be noticeable; and to provide such improvements in details and methods of construction as shall hereinafter be pointed out.

This application is a division of an application filed by me Nov. 1, 1906, Serial No. 341,605.

The accompanying drawing illustrates my invention, the figure being a transverse vertical section of a wall with projecting coping, or ledge.

In building a concrete wall with a projecting ledge or coping, as for instance the coping of a spandrel wall for a bridge, it is a very difficult matter to maintain the forms in true lines, as the wet concrete tends to warp and bulge the forms. As a consequence, the wall is wavy and irregular but, if the surface exposed be very large these wavy irregularities are not particularly apparent to the eye if no supposedly straight line is submitted for inspection; but where there are ledges or copings for ornamentation and these have been built continuously with the wall, the lines of the ledges or copings will present the same wavy edges. If, however, the wall is built to the underside of the coping and allowed to set or harden so that it will retain its form and hold the next form for the coping securely, the facing boards, or generally the facing board 77, for the coping, may then be lined up carefully and easily maintained, and it will then be almost impossible to detect any irregularities in the face of the wall 75 or in the moldings or copings 76.

My process consists then in building a wall of concrete to the lower side of a projecting ledge and permitting it to set, after which the forms for the ledge are alined and, while held in alinement by the already hardened wall, the concrete for the ledge is deposited, with its exposed edge true and not in alinement with the wavy and irregular surface of the wall beneath.

I claim as my invention;

1. That improvement in the art of building a wall of hardening plastic comprising erecting the forms building the wall to a line beneath a proposed projecting coping, allowing the wall to harden, and subsequently alining the forms for the coping and completing the coping.

2. That improvement in the art of building a wall of hardening plastic comprising alining the coping forms after building substantially to the coping and after setting, and completing the coping in the alined forms.

3. That improvement in the art of building a wall of hardening plastic comprising erecting the wall with an irregular face below the coping, and, after setting, adding the coping with true alinement of the projecting coping face.

4. That improvement in the process of building a wall of hardening plastic surmounted by a projecting coping, comprising completing the wall substantially to the coping, and after hardening correcting the alinement of the coping forms and subsequently completing the coping.

In witness whereof, I, have hereunto set my hand and seal at Indianapolis, Indiana, this fifteenth day of March, A. D. one thousand nine hundred and nine.

DANIEL B. LUTEN. [L. s.]

Witnesses:

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