

(No Model.)

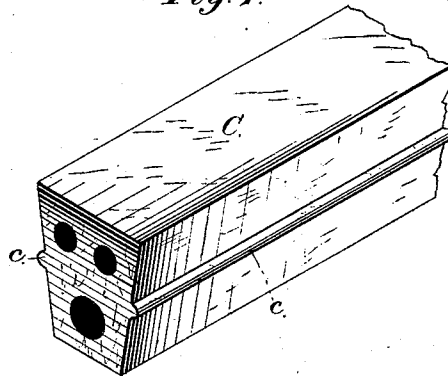
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MANUFACTURE OF ARTIFICIAL STONE.

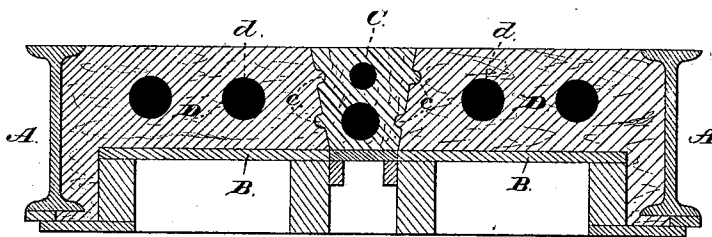
No. 255,992.

Patented Apr. 4, 1882.

*Fig. 1.*



*Fig. 2.*



*Witnesses.*

*Jas. E. Hutchinson.*  
*Frank P. Prindle*

*Inventor.*

*Wm. H. Hoopes, by*  
*Ges. S. Prindle, his Att'y*

# UNITED STATES PATENT OFFICE.

WILLIAM H. HOOPES, OF BALTIMORE, MARYLAND.

## MANUFACTURE OF ARTIFICIAL STONE.

SPECIFICATION forming part of Letters Patent No. 255,992, dated April 4, 1882.

Application filed August 12, 1881. Renewed March 14, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WM. H. HOOPES, of Baltimore city, in the county of Baltimore, and in the State of Maryland, have invented certain  
5 new and useful Improvements in the Manufacture of Artificial Stone; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of  
10 this specification, in which—

Figure 1 is a perspective view of my improved key stone or block, and Fig. 2 is a vertical transverse section of a panel between two  
15 girders, showing my method of applying artificial stone.

Letters of like name and kind refer to like parts in each of the figures.

The object of my invention is to lessen the expense and labor heretofore required in manufacturing and applying artificial stone to panels between girders or beams; and it consists principally in the method of forming panels between beams or girders by placing in position  
20 a central block or keystone and filling the space between the same and each girder with artificial stone in a plastic state, substantially as and for the purpose hereinafter specified.

It consists, further, in a keystone or key-block provided upon its sides with grooves or  
30 ribs for engagement with the adjacent material, substantially as and for the purpose hereinafter shown.

In the application of my method I place beneath two girders, A, a suitable center or mold  
35 board, B, which has in reverse the form of the panel to be produced, and properly support said center from beneath to prevent it from sagging under the weight of the material to be placed upon its upper side. I next place  
40 centrally upon the center or mold board a keystone, C, previously formed from artificial stone, and then proceed to fill the spaces between its sides and the girders A with artificial stone in a plastic state, D, care being taken to fill every  
45 portion of said spaces and to leave no imperfect places. The plastic material is now per-

mitted to harden, and after such result has been accomplished the support is removed from beneath, when it will be found that the panel produced is solid, homogeneous, and far  
50 stronger than would have been possible had the material been formed into blocks before being placed in position. The work of forming said panel is much less than when constructed in the usual manner, and a material  
55 saving in time and expense is effected.

In order that the union between the key-block C and the abutting material D may be strong and perfect, the sides of the former are provided with one or more grooves or ribs, c, 60 which extend lengthwise, as shown in Fig. 2, by which construction all possibility of the movement of said part is avoided.

If desired, the key-block C and the filling D at each side of the same may be provided  
65 with horizontal longitudinal openings for the purpose of lessening the weight, in which event the openings d within said filling may be formed by means of suitable cores, which are placed in position before said filling, and are withdrawn after the latter has partly or entirely  
70 hardened.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

1. The method of forming panels between beams or girders by placing in position a central block or keystone and filling the space between the same and each girder with artificial stone in a plastic state, substantially as and  
80 for the purpose specified.

2. A keystone or key-block provided upon its sides with grooves or ribs for engagement with the adjacent material, substantially as and for the purpose shown. 85

In testimony that I claim the foregoing I have hereunto set my hand this 18th day of July, 1881.

WM. H. HOOPES.

Witnesses:

GEO. S. PRINDLE,  
HENRY C. HAZARD.