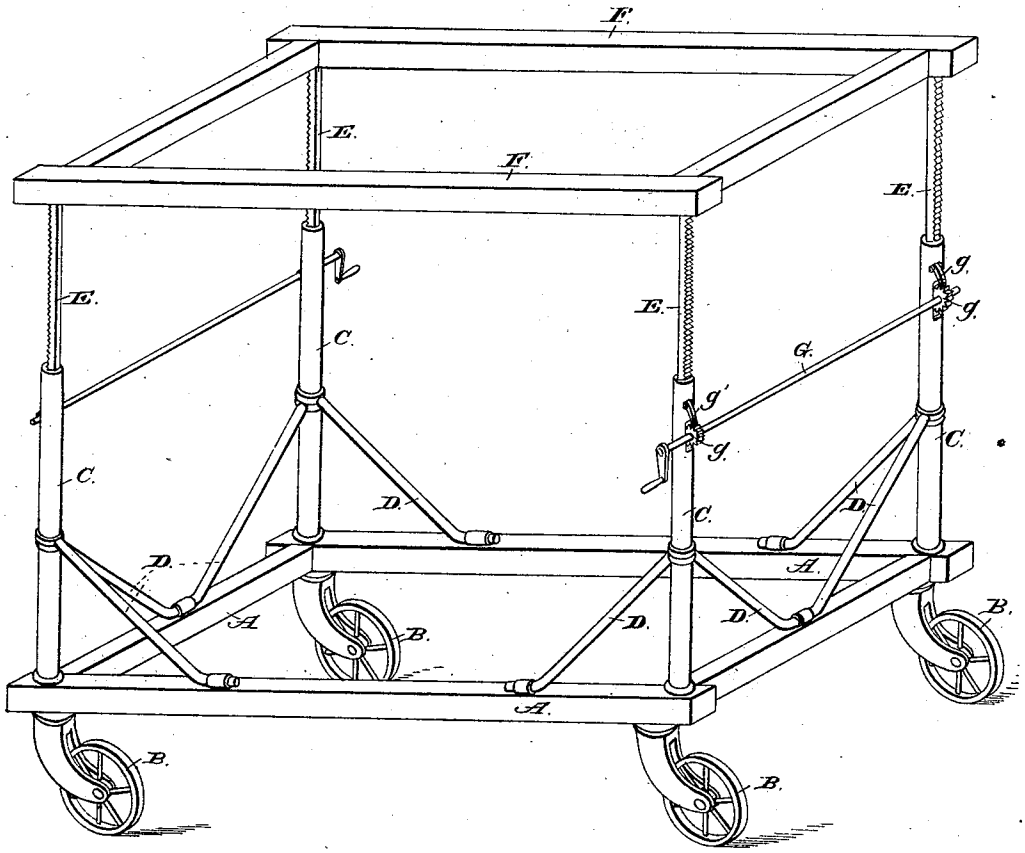
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W. H. HOOPES.

MANUFACTURE OF ARTIFICIAL STONE.

No. 255,991. Patented Apr. 4, 1882.

Fig. 1.



Witnesses.

Jas. E. Hutchinson.

Frank P. Prindle.

Inventor.

Wm. H. Hoopes, by

Geo. P. Prindle, his Atty

N. PETERS. Photo-Lithographer, Washington, D. C.

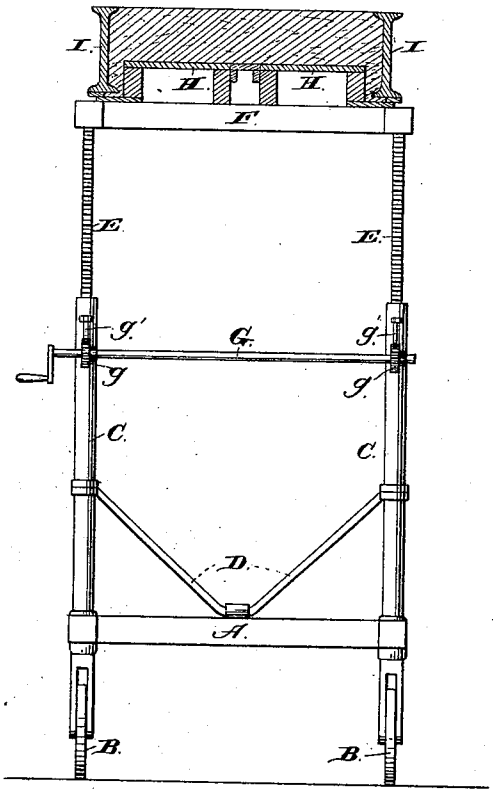
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W. H. HOOPES.

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Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM H. HOOPES, OF BALTIMORE, MARYLAND.

MANUFACTURE OF ARTIFICIAL STONE.

SPECIFICATION forming part of Letters Patent No. 255,991, 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 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 this specification, in which—

Figure 1 is a perspective view of my improved device, and Fig. 2 is a front elevation of the same in position for use.

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

The object of my invention is to enable artificial-stone filling for the spaces between girders or beams to be manufactured in the position it is to occupy; and to this end it consists, as an improvement in the manufacture of artificial stone, in a rolling support adapted to be placed beneath and adjusted vertically to position with reference to the space to be filled and to sustain the plastic stone while hardening, substantially as and for the purpose hereinafter specified.

In the annexed drawings, A represents a rectangular frame, which is supported by or upon four ground-wheels, B, that are preferably swiveled or caster wheels.

Secured to and extending upward from each corner of the frame A is a hollow standard, C, which is preferably round in cross-section, and is securely supported in position by means of braces D, that extend from one or more points between the ends of said standard laterally to and are connected with said frame.

Within each standard C is loosely fitted a bar, E, which is capable of longitudinal motion therein, and at its upper end is secured to the lower side, at one corner, of a frame, F, that corresponds in size and shape to the like features of the frame A.

Journaled horizontally within suitable bearings upon the standards C at each end of the device is a shaft, G, which is provided with two toothed wheels, *g*, one of which is contained within an opening in the side of each standard, and has its teeth in engagement with the grooved periphery of the bar E contained within, the arrangement being such that a rotation of said shaft will cause said standards to be simultaneously moved vertically, so as to raise or lower the end of the frame F, to which the same are attached. A pawl, *g'*, attached to each standard and adapted to engage with the wheel *g*, prevents the latter from rotating backward, and operates to lock said upper frame in place.

The apparatus described is arranged beneath the space to be filled with artificial stone, and upon the upper adjustable frame is placed a center or mold, H, for giving form to the arch or panel, after which said adjustable frame is moved upward to position and the plastic stone filled in between the girders I. After the plastic material has sufficiently hardened said supporting-frame is lowered and the apparatus moved to and set in another position and the operation described repeated.

This apparatus obviates the necessity which has heretofore existed for molding the artificial stone in blocks and setting the same, after hardening, in position between the girders, and by its use arches or panels which are homogeneous and possess very great strength may be easily and quickly filled in.

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

As an improvement in the manufacture of artificial stone, a rolling support adapted to be placed beneath and adjusted vertically to position with reference to the space to be filled and to sustain the plastic stone while hardening, substantially as and for the purpose specified.

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.