

# UNITED STATES PATENT OFFICE.

FRANÇOIS COIGNET, OF PARIS, FRANCE, ASSIGNOR TO L. MANGEON, OF NEW YORK CITY.

## IMPROVEMENT IN MAKING ARTIFICIAL STONE, AND IN MONOLITHIC STRUCTURES.

Specification forming part of Letters Patent No. 88,547, dated April 6, 1869.

*To all whom it may concern:*

Be it known that I, FRANÇOIS COIGNET, of the city of Paris, in the department of the Seine and Empire of France, have invented certain Improvements in Artificial Stone, Monolithic Structures, and Artificial Stone Articles; and I do hereby declare that the following is a full and exact description thereof.

This invention relates to the monolithic structures, or articles made of artificial-stone paste, agglomerated as described by me in my application for Letters Patent therefor; and the present improvement consists in the introduction into the body of the structure, or of the stone article, of double-headed nails, double T-pieces, clamps, hoops, scraps of twisted or irregular-shaped irons for the purpose of strengthening the same and giving it greater cohesive strength. The irons to be thus introduced may be arranged in such a manner as to interlace each other, so that by the combination of this metallic skeleton and of agglomerated artificial-stone paste the thickness of the walls or size of the articles may be considerably reduced and yet great strength be attained. Such, for example, would be the construction of a cylindrical web of small rod-iron or wire, upon and around which artificial-stone paste may be agglomerated so as to obtain water-pipes capable of resisting an interior pressure, which is so necessary in such pipes. Again, in the construction of troughs or water-vats angular-bent iron L-shaped pipes may with good effect be intro-

duced in the body of the material to give greater strength to the angles and prevent the trough from spreading asunder at those points. The non-conductibility of the artificial stone made by my method allows it to be used to good purpose as a means of protecting and isolating telegraphic wires or conductors.

Claiming no novelty in the use of iron clamps or frame-work of metal in ordinary masonry or brick-work for strengthening the same,

What I do claim, and desire to secure by Letters Patent of the United States, is—

1. The combination of agglomerated artificial-stone paste with iron scraps of irregular shape, such as nails, double-headed nails or bolts, rings, hooks, clamps, wire, &c., substantially in the manner and for the purpose set forth.

2. The introduction, in the body of artificial stones, or in the body of artificial-stone monolithic structures, made of agglomerated artificial-stone paste, of skeletons, or metallic frame-work, linked or arranged so as to strengthen the same, substantially as specified.

3. The application of agglomerated artificial-stone paste to the protection and isolating of telegraphic wires.

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Witnesses:

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