United States Patent Office:

THOMAS COYLE, OF BALTIMORE, MARYLAND.

IMPROVED MODE OF APPLYING CEMENT IN MAKING CISTERNS, RESERVOIRS, PIERS, &c.

Specification forming part of Letters Pateut No. 35% dated August 16, 1-37.

To all whom it may concern:

for mortar and mason-work in general, called to water. a "compound resinous cement," of which the | In forming the walls or columns of bridges following is a specification.

thoroughly stirred and boiled until it becomes is the same. a dark-brown color and sufficiently elastic | Although I have described the manner of hot, and it will require a hot instrument to spread it.

In forming a wall or vessel of any kind, ! either to keep in or out water, let a frame be formed of planks or bricks, having a space of sufficient width to form the thickness of the wall intended to be cast, then pour in the cement until the space be tilled. When the cement becomes hard the planks can be removed. To prevent the planks from adhering, let paper or some other substance be spread over them, after which, the cement becomes hard, the planks can be removed with ease and dispatch.

In forming a bottom to a cistern or any other ressel care must be taken to cut off all the paper where the joints are formed, or where the hot and the cold cement is intended to be united.

o all whom it may concern:

Be it known that I, Thomas Coule, of the necessary, first, to find if the gravity of the cecity of Baltimore, State of Maryland, have in : ment itself will resist the pressure of water. vented, constructed, made, and applied to use ! If not, let a sufficient body of clay be put over a new and useful Improvement in the Mode of ; the cement, and, if necessary, a plank floor Building and Constructing Cisterns, Reser, well braced over all. It is a general rule to voirs, Vaults, Chambers of Canals, Bridges, ; leave a vacancy between the brick or stones Privies, and for making dry and free from , sufficient to form an inner space of about an dampness all cellars in wet ground, and for inch. Then grout with the cement, by which covering all manner of bricks and stone walls; means the wall becomes perfectly impervious

: let a box surround the stones forming the wall, The compound resinous cement is composed pour the boiling cement in in sufficient quanof one part rosin and two parts dried clay, tities till the water is disgorged and the founfinely pulverized, the rosin to be put into an ; dation-stones reached, which will become as iron kettle over a sufficient fire to melt it, after | firmly cemented as if there was an absence of which the clay must be added until it assumes ball water. For chambers of canals, vaults, a stoutness of thick plastering-mortar, then privies, and all other vessels the application

that the action of the cold will not cause it to 'using and applying this cement for various crack, and sufficiently hard that the action of a purposes, I wish it to be distinctly understand the sun will not cause it, if exposed, to run. that I do not claim to be the inventor of the These ends may be obtained by judicious boil- cement itself or of its application to keep out ing. The coment must be always applied while a moisture in cellurs, vaults, &c.: nor do I claim the application thereof to such purposes in a heated state, this being necessary in all cases and a thing well known; but

What I do claim as my discovery is-

The applying it, in places or vessels which contain water, so highly heated as that it shall expel the moisture therefrom, so as effectually to adhere firmly to pebbles, stones, wood, or other substances with which it comes into contact.

In testimony that the above is a true specification of my said improvement, as above described, I have hereunto set my hand this 10th day of August, in the year of our Lord 1837.

THOMAS COYLE.

Witnesses: OWEN CONNOLLY, JOHN D. CLARK.