

# UNITED STATES PATENT OFFICE.

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## PROCESS OF MANUFACTURING RETARDERS FOR PLASTER.

SPECIFICATION forming part of Letters Patent No. 511,740, dated December 26, 1893.

Application filed October 4, 1892. Serial No. 447,818. (No specimens.)

*To all whom it may concern:*

Be it known that I, JAMES R. McILVRIED, of Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Process of Manufacturing Retard-  
5 ers for Plaster, of which the following is a full, clear, and exact description.

My invention relates to a process of combining certain ingredients in the manufac-  
10 ture of a setting-retarder for wall plaster; and my invention consists in certain features of novelty hereinafter described and pointed out in the "claim."

It is well known in manufacturing plaster that when the same has been prepared to the proper consistency for using, it shortly begins to solidify or harden, and becomes unfit for use. I prepare a mixture which, when applied to the plaster proper retards  
20 the solidification to a greater or less degree, according to the amount of the mixture used, so the plaster can be prepared beforehand to be used at any length of time required after the same has been prepared.

The steps taken and proportions used in my process are substantially as follows: One hundred pounds of lime is first air-slaked and kept in an air-tight receptacle for at least six months in order to add strength to the lime.  
30 Then I mix water with the lime, bringing the same to the consistency of cream, to which mixture I add fifty pounds of flour, fifty pounds of liquid glue and five pounds of wood ashes, bringing the mixture to the consistency  
35 of thick paste; after which, I place the same over a slow fire, stirring and mixing it thor-

oughly until the compound has become dry, after which, I pulverize the same to a fine powder.

The above mentioned compound or compo-  
40 sition of material is to be used with plaster of paris and sand to make a wall plaster, the proportions being ten per cent. of the above mixture to every one hundred pounds of plaster of paris and sand, or changed accord-  
45 ing to circumstances, depending on the time it is desired to use the plaster after the same has been prepared. I can thus prepare my plaster to prevent solidification or hardening  
50 of the same and keep it in a plastic condition until it is desired to use the same. If considerable time is to elapse between the mixing and the using, then a greater amount than ten per cent. of the mixture described  
55 should be added to the plaster; but if intended to be used at once, ten per cent. of the mixture will hold the plaster in proper condition until it has been used.

I claim as my invention—

The process of manufacturing a retarding  
60 mixture, consisting of air-slaking lime, keeping the same in an air-tight receptacle for a considerable period, then mixing the same with water, flour, liquid glue and wood ashes to the consistency of thick paste, and then  
65 drying the same over a slow fire and thoroughly mixing the same until it becomes dry; substantially as herein described.

JAMES R. McILVRIED.

Witnesses:

JAMES E. KNIGHT,  
F. E. MULLETT.