UNITED STATES PATENT OFFICE.

WILLIAM J. MOELLER, OF WYOMING, OHIO, ASSIGNOR TO THE PHILIP CAREY MANUFACTURING COMPANY, OF LOCKLAND, OHIO, A CORPORATION OF OHIO.

FIREPROOF-PAPER COMPOSITION.

1,119,103. Specification of Letters Patent. Patented Dec. 1, 1914.

No Drawing. Application filed October 8, 1909. Serial No. 521,652.

To all whom it may concern:

Be it known that I, WILLIAM J. MOELLER, a citizen of the United States, residing at Wyoming, in the county of Hamilton and State of Ohio, have invented a new and useful Fireproof-Paper Composition, of which the following is a specification.

My invention consists of the following ingredients combined in substantially the proportions stated, viz: asbestos fiber, about forty-eight per cent.; mineral wool, about forty-eight per cent.; sizing, about two per cent.; lime, about two per cent. The lime should be ground before using and the sizing may consist of starch. These ingredients are placed in a receptacle and thoroughly mixed with water. Any sand or other deleterious substance is then eliminated.

I prefer to use the ingredients in substantially the proportions stated, but they may be varied to change the character and quality of the material produced.

The asbestos fibers possess great strength and these commingled with the mineral wool in the proportions stated produce a fire proof paper of the necessary strength and at the same time enable the production of the article at a comparatively small cost, thus greatly reducing the expense of manufacture. The sizing is put in the composition to serve as a binder to hold the mixture together when in its wet state and while being made, but its presence in the composition is not essential afterward and while in use. It is not necessary that the sizing be fireproof as the other ingredients in the mixture all hold together when subjected to fire even though the sizing be destroyed thereby. The lime which is fire-proof is used for the purpose of hardening the mixture and making it stiffer. The proportions used produce the desired product, giving sufficient and necessary strength and at the same time the desired cheapness in the production of the product.

The composition thus formed is utilized in the manufacture of fire proof paper.

I claim:

The herein described composition of matter for making fire proof paper, consisting of about forty-eight per cent. of asbestos fiber, about forty-eight per cent. of mineral wool, about two per cent. of sizing, and about two per cent. of lime.

WILLIAM J. MOELLER.

Witnesses:

JAMES N. RAMSEY,

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