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DISINTEGRATED NEWSPRINT-BORIC ACID
INSULATION COMPOSITION

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2 Claims. (Cl. 252-62)

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The present invention relates in general to improvements in the art of insulating buildings and other structures against heat transgression, and relates more specifically to the provision of an improved insulation composition adapted for diverse purposes.

The primary object of my invention is the production of an improved insulating material or composition especially adapted to be applied in bulk to extended internal areas or spaces within the walls of buildings or the like, for the purpose of preventing transgression of heat through the walls, while also rendering the insulation layers embodying the composition highly fire resistant.

Generally defined, my improved insulation composition comprises a mixture of disintegrated paper such as newsprint and pulverulent boric acid (H_3BO_3).

In preparing the new composition I prefer to use the dry ingredients in approximately the following proportions, namely, seventy-five pounds of finely disintegrated newsprint thoroughly mixed with twenty-five pounds of finely pulverized or powdered boric acid. Good results may however be obtained when the quantity of boric acid powder is varied from fifteen to thirty pounds per hundred pounds of the mixture.

The powdered boric acid may be thoroughly mixed with the newsprint while the latter is being continuously disintegrated in a hammer mill or the like, the dry boric acid powder being fed directly into the turbulent disintegrating chamber. It is preferable to mix the ingredients in a dry state in order to maintain the mass of final mixture in relatively bulky and loose condition, and to permit the boric acid dust to effectively adhere to and to coat the paper fibres.

It has actually been found that the improved composition will not smoulder when subjected to a subdued heat such as a glowing cigarette or cigar, but will merely char locally until the glowing embers have become extinguished. The mixture or coated fibrous material is therefore far more fire-resistant than all known prior news-

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print dry insulations which will continue to glow throughout the entire mass until it is reduced to ashes.

The improved composition besides being fire-resistant, is light in weight and inexpensive, and is moreover an extremely efficient heat insulator, which may be conveniently applied to the interior spaces of building walls or the like.

It is to be understood that it is not desired to limit this invention to the exact details of the composition herein described, for various modifications within the scope of the appended claims may occur to persons skilled in the art.

I claim:

1. An insulation composition consisting of an intimate dry mixture of disintegrated newsprint and boric acid in proportions by weight, of approximately seventy-five percent of the former and twenty-five percent of the latter.

2. An insulation composition consisting of approximately twenty-five pounds of dry powdered boric acid mixed with seventy-five pounds of dry disintegrated newsprint.

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