

UNITED STATES PATENT OFFICE.

EUGENE A. MERRILL, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF ONE-HALF TO GRAND RAPIDS FIRELESS COOKSTOVE COMPANY, OF GRAND RAPIDS, MICHIGAN.

INSULATING MATERIAL.

Specification of Letters Patent. Patented Sept. 19, 1911.

1,003,773.

No Drawing.

Application filed July 1, 1909. Serial No. 505,402.

To all whom it may concern:

Be it known that I, EUGENE A. MERRILL, a citizen of the United States, residing at Grand Rapids, Michigan, have invented certain new and useful Improvements in Insulating Material, of which the following is a specification.

This invention relates to improvements in insulating material.

In the manufacture of the so-called "fireless cookers," it is customary to provide double walls, and to fill the space between the walls with a packing material to prevent radiation of heat.

It is the main object of my present invention to provide an improved insulating material for structures of this class, although my improved insulating material is well adapted for use where heat is to be resisted.

My improved insulating material consists of ground cork, that is, cork reduced to granular form and powdered asbestos, the powdered yellow asbestos being preferred. The ground cork and dry powdered asbestos are so proportioned that the interstices in the ground cork are filled with the powdered asbestos so that each piece or particle of cork is practically surrounded by the powdered asbestos, and is protected and supported by it. In use, this material is packed or tamped into the space in a dry or unmoistened condition, and forms an insulating body which is a very effective non-conductor of heat or cold, and an insulating body which is filled with minute air chambers. In the event of such a high temperature as

to char cork in its unmixed condition, the result will not be objectionable, because the particles or pieces of cork will be supported, even when slightly charred.

My improved insulating material is, as stated, especially designed by me for the packing of the walls of the so-called "fireless cookers," and the cork is so protected by the asbestos that it is capable of withstanding the highest temperatures to which it is there likely to be subjected. Saw-dust or wood, in the granular form, may be substituted for the cork, but cork is much superior to saw-dust. The yellow asbestos, which can be ground very fine, is found to be most satisfactory, although powdered or finely divided white asbestos produces quite satisfactory results.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

An insulating packing material consisting of a mixture of dry granular cork of relatively large granules with dry powdered asbestos filling in the interstices in the granular cork and substantially separating the granules of said cork, compacted together.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

EUGENE A. MERRILL. [L. S.]

Witnesses:

CALVIN A. LAUZON,
CATHERINE M. PIERCE.