

UNITED STATES PATENT OFFICE.

FREDERICK M. RUSCHHAUPT, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO AMERICAN FLEXIBLE SLATE AND COVERING CO., OF MILWAUKEE, WISCONSIN, A CORPORATION.

COMPOSITION OF MATTER TO BE USED AS A FLEXIBLE COVERING.

1,051,769.

Specification of Letters Patent.

Patented Jan. 28, 1913.

No Drawing.

Application filed February 25, 1911. Serial No. 610,850.

To all whom it may concern:

Be it known that I, FREDERICK M. RUSCHHAUPT, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a new and useful Composition of Matter to be Used as a Flexible Covering, of which the following is a specification.

This invention relates to a covering material adapted to serve as a substitute for slates, tiles and other forms of water- and acid-proof coverings and linings.

An object of my invention is to provide a flexible covering impervious to acids and alkalis, of a water-proof and air-proof material for use as a roof covering or in any locality where such a covering or lining is desired. I attain this object by combining certain substances enumerated hereinafter or by combining well-known physical and chemical equivalents of the same in the form of sheets, or slates, or, if desired, by combining any combination of the hereinafter enumerated substances with any preferred form of reinforcing substance, in order to strengthen the same. Preferably, I mold the substance into the reinforced structure described in full in my Patent No. 761,788, granted June 7, 1904.

The ingredients and proportions of my improved covering are preferably as follows:

Coal tar pitch	18 pounds
Coal tar	9 pounds
Gum asphalt	7 pounds
Asphaltic tar or oil	4 pounds
Ash, preferably from anthracite coal	40 pounds
Sand	10 pounds
Portland cement	6 pounds
Fiber, of either an organic or inorganic fibrous substance but preferably asbestos fiber	3 pounds
Alum, or aluminum-sulfate or ammonium-sulfate	3 pounds

The above-outlined ingredients or their equivalents are thoroughly mingled by proper agitation while subjected to a heat

of 250 degrees Fahrenheit or less and the mass thus formed is directed, when it has assumed a uniform color and state, into a brick press in which it is compressed into any desired thickness and shape, after which, if desired, it may be passed through heavy polishing rollers, as described in the aforementioned patent.

As outlined above, the asphalt and coal tar pitch are liquefied by the heat, which imparts to the composition considerable plasticity. Should a greater hardness be desired, the proportions of the gum asphalt and coal tar pitch are increased and a corresponding decrease made in the proportions of the semi-liquid tars.

When there is no objection to the odor of the coal tar pitch and coal tar as a binding material in the composition above set forth, the following proportions of these substances may be used:

Coal tar pitch	25 pounds
Coal tar	13 pounds

together with the sixty-two per cent. of the ash, sand, cement, fiber and aluminum salts in the proportions stated above. In place of this binding agent, the gum asphalt and asphaltic tar as elements of the above set forth composition, may be used in the same proportions as has been enumerated for the coal tar pitch and coal tar binder.

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

The herein-described composition of matter, consisting of coal tar pitch, eighteen pounds, coal tar, nine pounds, gum asphalt, seven pounds, asphaltic tar, four pounds, ash, forty pounds, sand, ten pounds, cement, six pounds, fiber, three pounds and alum, three pounds.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDERICK M. RUSCHHAUPT.

Witnesses:

OSCAR ALTPETER,
EDWIN J. GROSS.