

UNITED STATES PATENT OFFICE.

JOSEPH HAY AMIES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE AMIES ASPHALT COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF SOUTH DAKOTA.

METHOD OF PREPARING MINERAL MATERIALS AND THE LIKE FOR STREET AND ROAD CONSTRUCTION.

942,235.

Specification of Letters Patent.

Patented Dec. 7, 1909.

No Drawing.

Application filed February 20, 1909. Serial No. 479,253.

To all whom it may concern:

Be it known that I, JOSEPH HAY AMIES, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Method of Preparing Mineral Materials and the Like for Street and Road Construction.

It is well known that boiling asphalt, tar or pitch when mixed with hot steaming water will foam and expand to such an extent that a very small quantity thereof will fill to overflowing a kettle or still large enough to hold, under ordinary conditions, three or four hundred gallons.

It is the principal object of my present invention to take advantage of this fact when preparing minerals or fibrous materials for street and road construction.

My process is as follows:—I place at the bottom of a kettle or still a sufficient amount of water, preferably in a boiling condition. I then add thereto and mix therewith a due amount of boiling asphalt and during the foaming of the said asphalt I throw thereon and therein a due quantity of mineral,

soil or fibrous materials. It is desirable to throw these elements into the asphalt, at and during the foaming period, in small quantities, since better results can be secured in this way than by throwing the whole batch in on the foaming elements. The operation is very rapid and as soon as the mineral elements or the like are placed into the kettle or still they will become coated and may at once be removed and are ready for street and road construction.

What I claim is:—

The herein described process which consists in mixing heated asphalt with heated water to induce fomentation of the asphalt and during the fomentation adding cold mineral, fibrous, and like matters in successive small quantities to the foaming mass whereby the said matters are coated by a self acting process.

In testimony whereof I hereunto sign my name.

JOSEPH HAY AMIES

Witnesses:

S. F. KOCH,

WILLIAM J. JACKSON.