

[54] **PROCESS FOR RECYCLING ASPHALT-AGGREGATE COMPOSITIONS**

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Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 286,613, Sept. 5, 1972, abandoned, and Ser. No. 360,464, May 15, 1973, Pat. No. 3,845,941.

[52] U.S. Cl. **106/280; 106/281 R; 404/72; 404/79**

[51] Int. Cl.² **C08J 3/18; C08K 5/01; C08L 95/00; C04B 13/30**

[58] Field of Search **106/280, 281, 283, 278, 106/279; 404/72, 73, 79**

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ABSTRACT

[57] In recycled asphalt-aggregate compositions prepared by adding a suitable amount of make-up asphalt to pieces of the used composition and heating the mixture in a rotating cylindrical drum by tumbling the composition over heated pipes as it is gradually directed towards an output end of the drum, the improvement comprising adding an amount of petroleum hydrocarbon to achieve a laid down asphalt penetration of between 25 and 300 dmm at 77° F. A further embodiment of the improved process comprises venting a mixture of hydrocarbon gases and moisture vaporized from the hot composition mixture at the output end of the apparatus, condensing the moisture and removing it and returning the hydrocarbon gases to a combustion chamber for providing heat to the apparatus tubes. Still another improvement comprises an apparatus modification wherein a plurality of relatively short pipes are disposed in the forward ends of the heating tubes through a front plate displaced from the forward end wall of the drum with the open pipe ends exposed to the combustion chamber for providing heat to the interior of the heating tubes.

10 Claims, 1 Drawing Figure

