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(54) Title: RADIATION-TREATED FIBERS, METHODS OF TREATING AND APPLICATIONS FOR USE

(57) Abstract: The invention relates to radiation-treated reinforcement fibers, reinforced asphalt and portland cement concrete, and grout, methods for producing the same and application for their use. The radiation treatment includes exposing reinforcement fibers to electromagnetic energy, e.g., gamma rays, and/or electron-beam (E-beam) radiation. As a result of the treatment, the radiation-treated reinforcement fibers have a modified or deformed surface, e.g., an abraded and/or porous surface, as compared to reinforcement fibers without a radiation treatment.



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