INTER-PENETRATING ELASTOMER NETWORK DERIVED FROM GROUND TIRE RUBBER PARTICLES

ABSTRACT OF THE DISCLOSURE

Crumb rubber obtained from recycled tires is subjected to an interlinked substitution process. The process utilizes a reactive component that interferes with sulfur bonds. The resulting treated rubber exhibits properties similar to those of the virgin composite rubber structure prior to being granulated, and is suitable for use in fabricating new tires, engineered rubber articles, and asphalt rubber for use in waterproofing and paving applications.

Fig. 1