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Spreen

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(54) **ENVIRONMENTALLY RESPONSIBLE
INSULATING CONSTRUCTION BLOCKS
AND STRUCTURES**

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CPC **E04B 7/22** (2013.01); **B32B 23/046**
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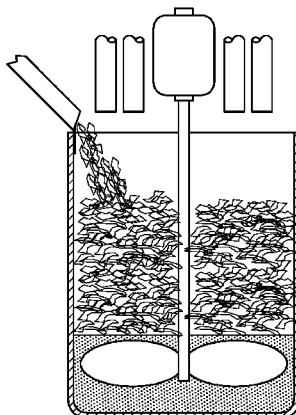
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(57) **ABSTRACT**

Environmentally responsible insulating construction blocks and structures constructed primarily of recycled materials are disclosed. The environmentally friendly construction blocks and structures comprise shredded rubber tire pieces coated with silica fume, slag cement and cement, which are then mixed with water and formed in a mold. A layer of grout or a fireproof material may be disposed on one side of the environmentally responsible insulating construction block. The environmentally responsible insulating construction blocks provide high insulation as well as strength for applications such as green roofing, wall construction and green roofing decks. Environmentally friendly structures can be built by pouring the coated shredded rubber tire pieces into molds to form walls, and then to pour a layer of the coated shredded rubber tire pieces as a roof deck, thereby creating a self-supporting structure in a monolithic pour.

9 Claims, 22 Drawing Sheets



Related U.S. Application Data

continuation of application No. 15/981,189, filed on May 16, 2018, now abandoned, which is a continuation-in-part of application No. PCT/US2015/061055, filed on Nov. 17, 2015, and a continuation of application No. PCT/US2018/032905, filed on May 16, 2018.

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See application file for complete search history.

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