

Carpet tile coating system and method

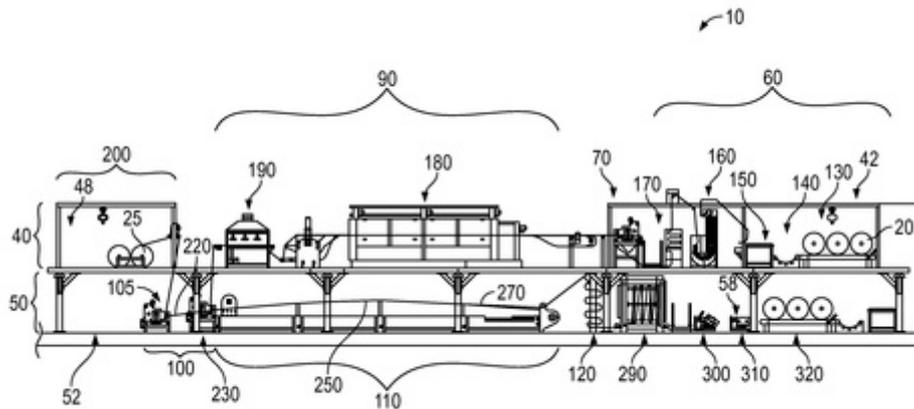
US9604439

2017-03-28

Applicant(s): Ellis Michael

Abstract:

A carpet backing system for applying a coating to a roll of carpet includes elongated upper deck having a first end and a second end. An elongated lower deck is situated below and aligned with the upper deck. The upper deck includes a staging and unrolling station at a first end thereof, a pre-coat applicator for applying a pre-coat to the carpet, and an oven station to cure the pre-coat and allow the carpet to exit a second end of the upper deck. The lower deck includes a polymer applicator at a first end thereof for receiving the carpet and the pre-coat from the second end of the upper deck. The polymer applicator is adapted to apply the coating to the carpet. The lower deck further includes a heating platen conveyor, a plurality of cooling rolls, and optionally a carpet rolling station at a second end of the lower deck.



Smart carpet systems and methods of using same for monitoring physical and physiological activities

WO2017048977

2017-03-23

Applicant(s): University of Arizona

Abstract:

Systems and methods for using a smart carpet to monitor a health status of an individual. The smart carpet has electronics and a plurality of pressure sensing areas for sensing plantar pressure of the individual. A monitoring computer comprising a processor and a memory including machine readable instructions processes carpet data. A first part of the smart carpet is scanned at a first frequency and a second part of the smart carpet is scanned at a second frequency greater than the first frequency. Plantar pressures are received from the second part of the carpet and the instructions evaluate the plantar pressures to determine at least one of a physical activity and a physiological activity. Where an emergency condition is determined, an alarm is communicated to monitoring personnel

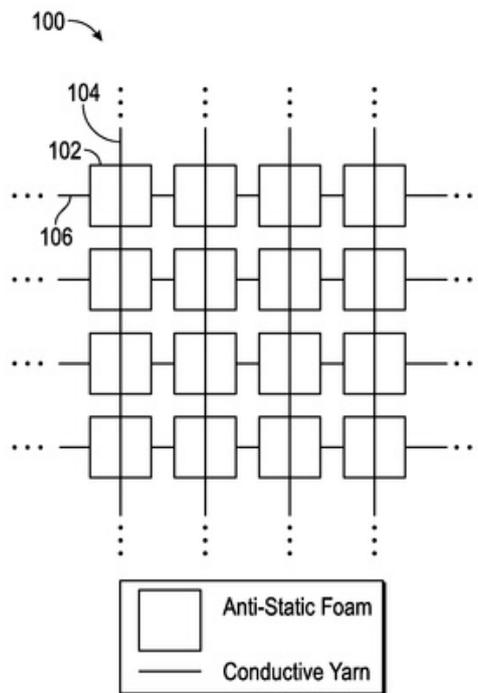


FIG. 1

Integral carpet underlayment water extraction system and method

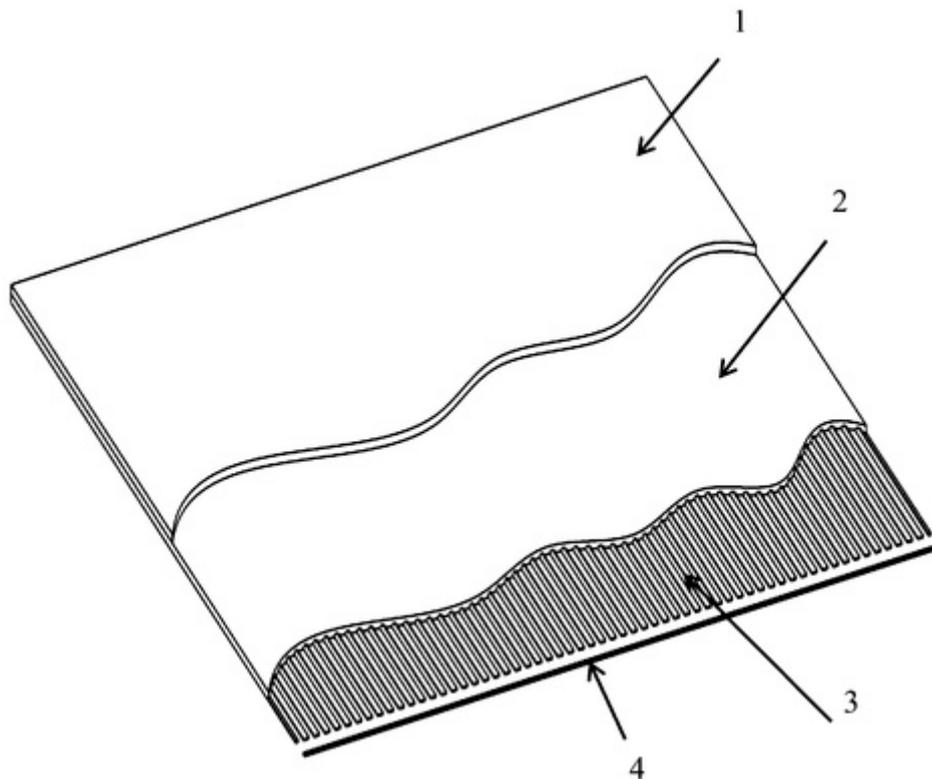
US2017086629

2017-03-30

Applicant(s): Chrisholm Bruce

Abstract:

A system of built-in, closely spaced passageways or piping containing numerous, small, closely-spaced holes, provided as an integral or separate part of the underlayment in a typical wall-to-wall carpet flooring installation. The piping network includes a manifold and access port which can be quickly and conveniently connected, from above or below the floor, to a typical motorized water pump or vacuum device, for the purpose of suctioning and drying large quantities of standing water, caused by accidental flooding for example, from within the carpet without the need for costly emergency professional services and equipment as is the norm today. The pump could be connected either from above or below the carpet floor as desired for convenience. The system can be provided at the time of new carpet installations or as a retrofit kit for existing installations and is scalable to any size of floor area in homes or buildings.



Cut pile carpet with color accents and methods of manufacture thereof

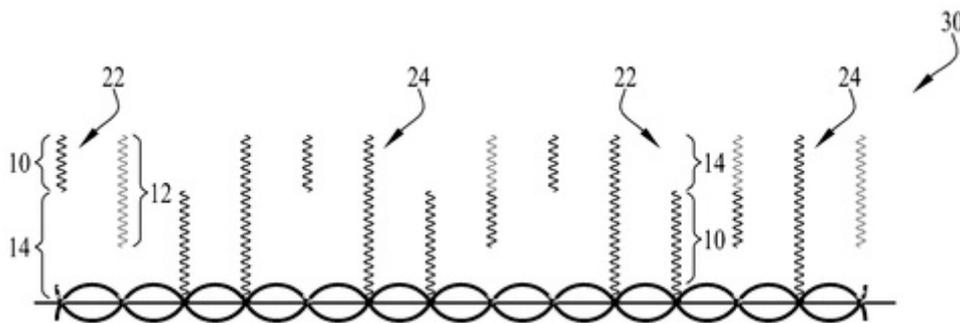
US2017073886

2017-03-16

Applicant(s): Engineered Floors

Abstract:

A multicolored and accented carpet includes a plurality of tufts of color accented fiber including two or more differently colored extruded solution dyed yarns and a base yarn twisted together whereby a plurality of color transitions are provided along the length of the single accented fiber. A cut pile carpet is produced, having the appearance of a space dyed carpet, with the fade and bleach resistance of a solution dyed carpet.



Process for production of an ester and diol from reclaimed carpet material

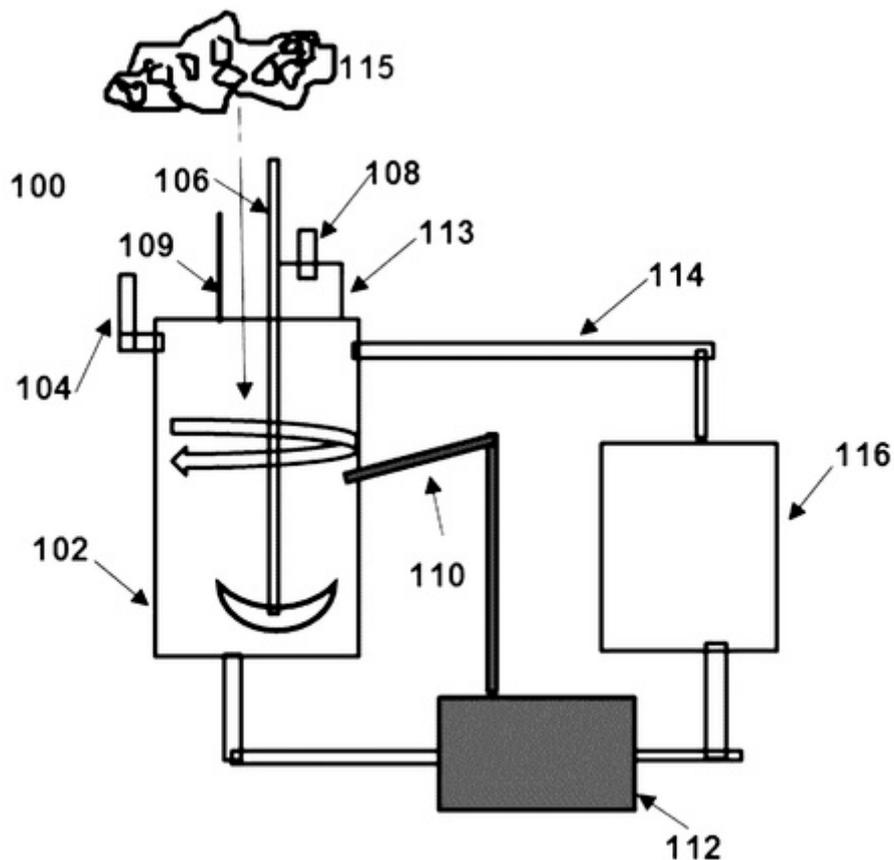
US2017113995

2017-04-27

Applicant(s): Columbia Insurance

Abstract:

The current invention pertains to a process for producing a terephthalate ester comprising: providing reclaimed carpet material comprising a polyester component; and reacting the polyester component with an alcohol having from 6 to 20 carbon atoms and under conditions effective to produce a terephthalate ester; wherein 15-40% of the mass of the terephthalate ester is derived from the polyester present in the reclaimed carpet material.



Carpet with fluid barrier properties

WO2017004494

2017-01-05

Applicant(s): Shaw

Abstract:

This disclosure relates to a carpet having fluid barrier properties. The disclosed carpet comprises: (a) a greige good comprising: i) a primary backing component having a face surface and a back surface; ii) a plurality of fibers attached to the primary backing component and extending from the face surface of the primary backing component; (b) an adhesive composition applied to the back surface of the primary backing component; (c) a secondary backing having a first surface and a second surface, wherein the first surface of the secondary backing is adhered to the back surface of the primary backing component by the adhesive composition; and (d) a polymer film disposed on the second surface of the secondary backing. In some aspects, a first portion of the polymer film is adhered to the primary backing component and a second portion of the polymer film is adhered to the second surface of the secondary backing.

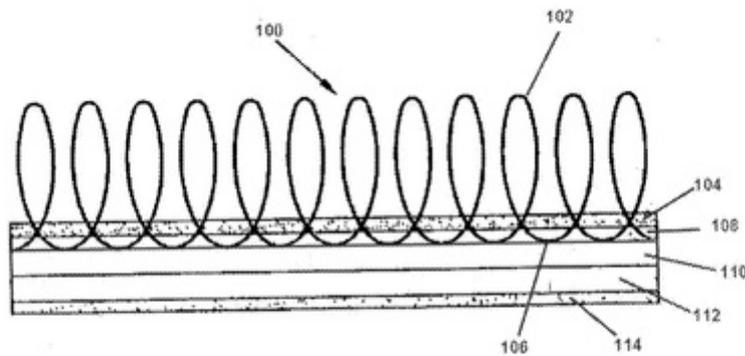


FIG. 1

Floor covering and method for separating at least part of same

WO2017077249

2017-05-11

Applicant(s): Balsan

Abstract:

The invention relates to a carpet-type covering for a construction surface, particularly for a floor. Said covering includes, consecutively, at least: a contact layer (1) for being arranged towards the user, an anchoring layer (2), usually referred to as a precoat, and at least one mounting or adhesion layer (5) for resting on the floor. Said covering is characterized in that it comprises a filler material (9) which is expandable by reaction to heat. The material is built into the anchoring layer or an interface layer between the anchoring layer and the mounting layer.

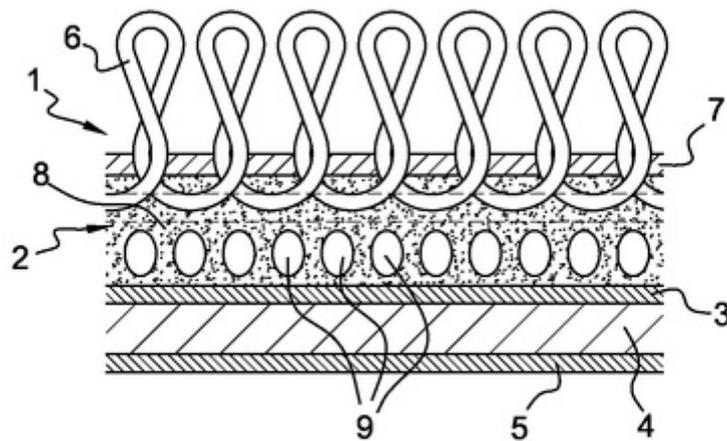


Fig. 1

Recycling of fibrous surface coverings

US2017107346

2017-04-20

Applicant(s): Geo Technology Polymers

Abstract:

Methods, compositions, single phase aqueous solutions, process mixtures, and kits are provided relating to recycling a fibrous surface covering, e.g., **carpet**, using a single-phase aqueous solution. For example, a method of recycling a fibrous surface covering may include providing the single phase aqueous solution. The single phase aqueous solution may include water and a surfactant composition. The method may include providing the fibrous surface covering. The fibrous surface covering may include: a fibrous surface layer; a first backing coupled to the fibrous surface layer; and a binder coupled to one or more of the first backing and the fibrous surface layer. The method may include contacting the single phase aqueous solution and the fibrous surface covering to form a process mixture under conditions effective to provide a recycled portion of the fibrous surface covering.

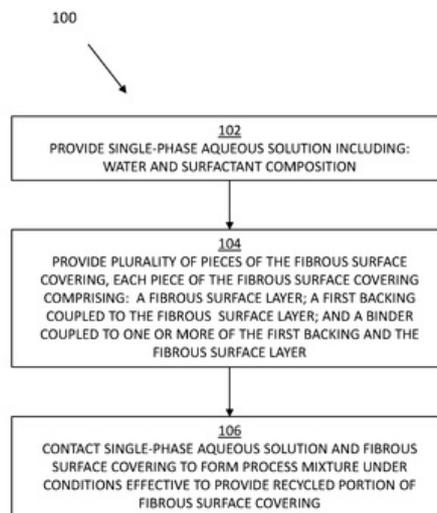


FIG. 1