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(54) **Method of cleaning carpets and the use of a composition.**

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**EP 0 346 835 B1**

## Description

### BACKGROUND OF THE INVENTION

#### A. Field of the Invention

This invention relates to aqueous cleaning compositions and, more particularly, relates to an aqueous cleaning composition having the ability to remove stains, soils, or combinations thereof from textile fibers.

#### B. Description of the Prior Art

Carpets containing synthetic polymer fibers are a popular floor covering for both residential and commercial applications. Such carpets are relatively inexpensive and have a combination of desirable qualities, such as durability, comfort, safety, warmth, and quietness.

Various types of synthetic polymer fibers are used in making carpets. Two popular synthetic polymer fibers utilized in carpets are polyamide fibers, such as nylon 6 and nylon 66, and polyester fibers.

The fibers contained in the carpets are severely and permanently stained or soiled when contacted, such as by inadvertent spilling, with certain artificial and natural colorants present in household items, such as tea, coffee beverages made from coffee beans, and soft drink beverages. Many of these colorants are acid dyes colorants, which cause the most severe stains. As a result thereof, carpets are sometimes replaced because of unsightly soiling or staining, even though the carpet has not been worn out.

The terms "stain and staining" as used herein with reference to synthetic fibers means discoloration of the fibers caused by a chemical reaction with a chemical substance. Acid dyes are representative of a staining material for nylon fibers.

The terms "soils" as used herein refers to both organic and inorganic matter which comes in contact with fibers and adhere thereto. Dirt particles, grease, oils, foods, and cosmetics are representative of materials referred to as soils that work their way onto and into various textile fibers.

The term "fiber" as used herein includes fibers of extreme or indefinite length (i.e. filaments) and fibers of short length (i.e. staple). The term "yarn" as used herein means a continuous strand of fibers.

In an attempt to prevent undesirable staining of fibers and, particularly, fibers contained in carpets, it has been proposed that the fibers be treated with an additive which coats the fiber and makes the fiber resistant to staining. Examples of such additives are condensation products made from ar-

omatic sulfonic acids, and formaldehyde. Although such additives have been somewhat successful in imparting stain resistance, certain problems remain. For instance, many of the additives reduce staining of fibers, but do not totally eliminate it. In addition, traffic on carpet wears off the additives, which leaves the resulting fibers of the carpet with little or no protection against staining.

Colored food beverages, such as colored soft drink beverages, tea beverages, and coffee beverages made from coffee beans, present a serious staining problem to textile fibers. Coffee stains are particularly unsightly because of their dark brown color.

Various fluorochemicals have been applied to carpet fibers in order to reduce their water and oil wettability. The fluorochemical reduces the tendency of soils to adhere to the fibers, thereby making the removal of soils from the carpet fibers easier than if the fluorochemicals were omitted, but offers little protection to the carpet fibers from spills containing acid dye colorants unless the colorants are immediately removed from the fibers. In addition, traffic on the carpet wears off the fluorochemicals.

A number of cleaning solutions have been proposed in the past for removing stains and soils from fibers. For instance, volatile solvent dry-cleaning fluids have been proposed, but such fluids are less than satisfactory in removing water-soluble stains or soils. In addition, aqueous compositions containing synthetic detergents have been proposed for removing stains and soils from fibers, but such compositions have not been found to be particularly effective.

One of the problems with these cleaning solutions is that while they may, at times, loosen and/or dispense the soil, they fail to pick up or retain the soil, which results in it being redeposited on the fibers. Furthermore, they are not very effective against difficult stains, such as acid and coffee stains. Still further, since acid and coffee stains are not water soluble, aqueous detergent compositions are not particularly effective and many times it is difficult to remove all of the detergent from the fiber surface, even when rinsed with large amounts of water or steam. As a result thereof, the carpet fibers become tacky due to a film of detergent. The film attracts and retains soils, which results in a cleaned carpet that will soil more easily after a cleaning than prior thereto.

Finally, many of the aqueous cleaning compositions require large amounts of water. This causes the fibers in the carpet and, many times, the pad under the carpet, to become saturated with water, which can result in degradation of the pad and/or carpet.

A method of treating cloths with an aqueous mixture of hydrogen peroxide and ethanol is known from GB-A-2.072.643. A method of treating carpets with an aqueous mixture of hydrogen peroxide and isopropanol is known from US-A-3.607.760.

The present invention provides a cleaning composition suitable for removing stains and soils from synthetic polymer fibers which overcomes, or at least mitigates, many of the above-described problems.

#### SUMMARY OF THE INVENTION

One object of the present invention is a method for removing stains, soils, or combinations thereof from a synthetic polymer fiber carpet by contacting the stained or soiled portion with an effective amount of an aqueous cleaning composition having a pH in the range of from about 9 to about 12.0 and comprising an effective amount of water-soluble alcohol containing 1 to about 5 carbon atoms; an oxidizing agent present in an amount in the range of from about 3 to about 15 percent by weight of said aqueous cleaning composition and comprising a peroxyhydrate; a pH adjustment substance; and the balance water.

Another object of the present invention is the use of an aqueous cleaning composition having a pH in the range of from about 9 to about 12 and comprising an effective amount of water-soluble alcohol containing 1 to about 5 carbon atoms; an oxidizing agent present in an amount in the range of from about 3 to about 15 percent by weight of said aqueous cleaning composition and comprising a peroxyhydrate; a pH adjustment substance; and the balance water for spot cleaning stained or soiled portions of a synthetic polymer fiber carpet.

The composition is very effective in removing stains from coffee beverages, even when the beverages have remained on the fiber for extended periods of time, e.g., 30 minutes or more. Finally, the use of the composition does not result in appreciably degrading the fibers.

#### DESCRIPTION OF THE PREFERRED EMBODIMENTS

Alcohols which are suitable for use in the invention include water-soluble alcohols containing up to 5 carbon atoms, such as methyl alcohol, ethyl alcohol, n-propyl alcohol, isopropyl alcohol, n-butyl alcohol, isobutyl alcohol, sec-butyl alcohol, tert-butyl alcohol, tert-pentyl alcohol. The preferred alcohol is isopropyl alcohol.

Oxidizing agents that find particular application in the invention include peroxyhydrates. The term "peroxyhydrate", as used herein, means hydrogen peroxide or any compound which, in an aqueous

composition, yields hydrogen peroxide. Examples of such compounds include alkali metal peroxides, such as sodium peroxide and potassium peroxide, sodium perborate monohydrate and tetrahydrate, sodium persulfate, sodium percarbonate, sodium peroxydihydrate, various phosphate peroxyhydrates such as sodium or potassium peroxydiphosphate, potassium carbonate, peroxydihydrate, and organic peroxyhydrates such as urea peroxide. The preferred oxidizing agent is hydrogen peroxide.

The amount of oxidizing agent and alcohol utilized in the aqueous cleaning composition will vary over a wide range.

For fibers having stains from coffee beverages, the amount of oxidizing agent employed is generally an amount in the range of from about 3 to about 15 percent by weight of aqueous composition and, preferably, an amount of from about 3 to 12.5 percent by weight of aqueous composition. The amount of alcohol will generally be an amount in the range of from about 10 to about 30 percent by weight of aqueous composition and, preferably, an amount of from about 10 to about 20 weight percent based on the weight of the aqueous composition.

The precise manner that the aqueous composition functions to remove soils or stains, particularly coffee stains, is not fully understood and need not be. It is believed that the aqueous composition oxidizes colored high molecular compounds to colorless lower molecular weight compounds. In any case, the observable effect is that the utilization of the aqueous solution containing the peroxyhydrate and alcohol very effectively removes, or at least substantially reduces, soils and stains, particularly coffee stains, in the fibers. In addition, the alcohol appears to assist in the stain and soil removal and promotes drying of the cleaned fiber. The cleaning effect occurs without any appreciable detrimental effect to the fibers.

In the practice of the invention, it is necessary that the pH of the aqueous composition be in the range of from about 9 to about 12.0 and, more preferably, in the range of from about 9.0 to about 10.5. The pH can be adjusted using acidic or alkaline compounds well known in the art. The preferred compounds, for raising the pH of the composition are sodium hydroxide, potassium hydroxide, and, most preferably, ammonium hydroxide.

The preferred aqueous composition has a pH of from about 9.0 to about 10.0 and comprises hydrogen peroxide present in an amount in the range from about 3 to about 12.5 percent by weight of aqueous composition and isopropyl alcohol present in an amount in the range from about 15 to about 20 percent by weight of aqueous composition.

The most preferred composition comprises about 9 percent by weight hydrogen peroxide, 10 percent by weight isopropyl alcohol, and a pH of about 9.5. Preferably, pH adjustment of this composition is carried out using ammonium hydroxide.

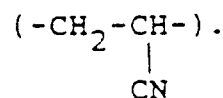
Generally, any synthetic fiber may be cleaned utilizing the cleaning composition of the present invention. Examples of such fibers include those made from synthetic thermoplastic polymers which are capable of being formed into fibers such as by melt extrusion including polyolefins, for example, homopolymers of olefins such as low-density polyethylene, high-density polyethylene, polypropylene, and the like. Copolymers of olefins with other ethylenically unsaturated monomers such as ethylene-propylene copolymers and ethylenebutene copolymers and the like find particular application in the present invention.

Fibers made from polyamides also find particular application in the present invention. Examples of such polyamides include homopolyamides and copolyamides which are obtained by the polymerization of lactam or aminocapronic acid or a copolymerization product from mixtures of diamines together with dicarboxylic acids or mixtures of lactams.

Typical polyamides include nylon 6, nylon 6/6, nylon 6/10, nylon 6/12, nylon 11, nylon 12, copolymers thereof, or mixtures thereof. Polyamides can be also copolymers of nylon 6 or nylon 6,6 and a nylon salt obtained by reacting a dicarboxylic acid component such as terephthalic acid, isophthalic acid, adipic acid or sebacic acid with a diamine such as hexamethylenediamine or 1,4-bisaminomethylcyclohexane.

Fibers made from polyester also find particular application in the present invention. The preferred polyesters are the linear terephthalate polyesters, i.e., polyesters of a glycol containing from 2 to 20 carbon atoms and a dicarboxylic acid component comprising at least about 75% terephthalic acid. The remainder, if any, of the dicarboxylic acid component may be any suitable dicarboxylic acid such as sebacic acid, adipic acid, isophthalic acid, sulfonyl-1,4-dibenzoic acid, or 2,8-dibenzofurandicarboxylic acid. Examples of linear terephthalate polyesters which may be employed include poly(ethylene terephthalate), poly(butylene terephthalate), poly(ethylene terephthalate/5-chloroisophthalate), poly(ethylene terephthalate/5-[sodium sulfo]-isophthalate), and poly(cyclohexane-1,4-dimethylene terephthalate/hexahydroterephthalate).

Fibers comprising polyacrylonitrile homopolymers and copolymers can also be utilized in the present invention. The term "polyacrylonitrile" as used herein means a synthetic polymer composed of at least 85 percent by weight acrylonitrile monomer units



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Up to 15 percent of the polymer can be comprised of a vinyl monomer which is copolymerizable with acrylonitrile such as methyl acrylate, methyl methacrylate, vinyl acetate, and vinyl derivatives containing sulfo or carboxyl groups.

The aqueous composition can be prepared by mixing together the alcohol, oxidizing agent, and water in any order. Prior to utilizing the composition, its pH will usually have to be adjusted.

The method of cleaning using the cleaning composition comprises applying the aqueous composition to the fibers to be cleaned and removing the residue of the composition together with stain, soil, or combinations thereof. The residue may be removed by rinsing, scrubbing, vacuuming, sweeping, brushing, and the like. The amount of aqueous composition applied will depend on the severity of the staining or soiling encountered. For severe staining or soiling, more than one application of the cleaning composition may be desired. In addition, the cleaning composition should remain on the fibers for a period of time that insures proper cleaning of the stains, soils, or combinations thereof. After removing the composition from the fibers, the fibers are preferably washed with water to thoroughly remove the cleaner.

A desirable feature of utilizing the composition for cleaning soiled and/or stained fibers is that efficacious cleaning occurs thereon without leaving a residue. In addition, the use of the cleaning composition does not impair the color, even dyed colors, of the fibers.

The invention is further exemplified by the examples below, which are presented to illustrate certain specific embodiments of the invention, but are not intended to be construed so as to be restrictive of the spirit and scope thereof.

#### EXAMPLE

An amount of 10 milliliters of a beverage comprising black coffee which had a temperature of 180 °F was poured into the center of each piece of a 6 inch by 6 inch sample of a commercial carpet. The samples comprised nylon, polyester, or polypropylene. The samples were then allowed to air dry at ambient temperatures for a period of 48 hours. After 48 hours, each stain was sprayed with a commercial carpet detergent. The detergent was allowed to contact the sample for a period of one minute after being lightly agitated by means of a finger. Thereafter, the detergent was removed from the sample using a commercial hot water extraction

machine having a 4 inch wand attached to a vacuum hose. Next, the stain was sprayed with 100% white vinegar, which was allowed to stand for one minute and subsequently removed from the carpet in the same manner as the detergent. The coffee stains were not appreciably removed from the samples after these treatments.

Thereafter, each coffee stain was sprayed with an aqueous cleaning composition comprising 10 percent by weight isopropyl alcohol, 30 percent by weight of an aqueous hydrogen peroxide composition containing 30 percent by weight hydrogen peroxide (9 percent by weight hydrogen peroxide), 10% by weight of an ammonium hydroxide for pH adjustment, and 50 percent by weight of water. The percentages of the alcohol, hydrogen peroxide, ammonium hydroxide were based on the total weight of the cleaning composition. The stains were no longer visible after less than one hour. The aqueous coffee stain removing composition (CAGS) was extracted from the samples, rinsed with an aqueous solution containing 50% by weight white vinegar and 50% by weight water, and allowed to dry. Upon visual observation, all traces of the coffee stain were removed from each sample.

Although certain preferred embodiments of the invention have been herein described for illustrative purposes, it will be appreciated that various modifications and innovations of the procedures recited may be effected without departure from the basic principles which underlie the invention as defined in the claims.

## Claims

1. A method of removing stains, soils or combinations thereof from a synthetic polymer fiber carpet characterized by:  
contacting said stained or soiled portion with an effective amount of an aqueous cleaning composition having a pH in the range of from about 9 to about 12.0 and comprising:
  - (a) an effective amount of water-soluble alcohol containing 1 to about 5 carbon atoms;
  - (b) an oxidizing agent present in an amount in the range of from about 3 to about 15 percent by weight of said aqueous cleaning composition and comprising a peroxyhydrate;
  - (c) a pH adjustment substance; and
  - (d) the balance water.
2. The method of claim 1 wherein said water-soluble alcohol is selected from the group consisting of methyl alcohol, ethyl alcohol, n-propyl alcohol, isopropyl alcohol, n-butyl alcohol, isobutyl alcohol, sec-butyl alcohol, tert-butyl alcohol, tert-pentyl alcohol, and mixtures there-

of.

3. The method of claims 1 or 2 wherein said peroxyhydrate is selected from the group consisting of hydrogen peroxide, sodium peroxide, potassium peroxide, sodium perborate monohydrate, sodium perborate tetrahydrate, sodium persulfate, sodium percarbonate, sodium peroxydihydrate, sodium peroxydiphosphate, potassium peroxydiphosphate, potassium carbonate peroxydihydrate, urea peroxide, and mixtures thereof.
4. The method of any one of the claims 1 to 3 wherein said synthetic polymer fibers are selected from the group consisting of polyamide, polyester, and polyolefin fibers.
5. The method of any one of the claims 1 to 4 wherein said pH of said composition is in the range of from about 9.0 to about 10.5.
6. The method of any one of the claims 1 to 5 wherein said alcohol is present in said composition in the range of from about 10 to about 20 percent by weight of said composition and said peroxyhydrate is present in an amount in the range of from about 3 to about 12.5 percent by weight of said composition.
7. The method of any one of the claims 1 to 6 wherein said peroxyhydrate is hydrogen peroxide and said alcohol is isopropyl alcohol.
8. The method of any one of the preceding claims wherein said alcohol is present in an amount of about 10 percent based on the weight of said composition and said peroxyhydrate is present in an amount of about 9 percent based on the weight of said composition and said pH of said composition is adjusted using ammonium hydroxide.
9. The method of any one of the preceding claims wherein said stains are coffee beverage stains.
10. The use of an aqueous cleaning composition having a pH in the range of from about 9 to about 12 and comprising :
  - (a) an effective amount of water-soluble alcohol containing 1 to about 5 carbon atoms;
  - (b) an oxidizing agent present in an amount in the range of from about 3 to about 15 percent by weight of said aqueous cleaning composition and comprising a peroxyhydrate;
  - (c) a pH adjustment substance; and

(d) the balance water.  
for spot cleaning stained or soiled portions of a  
synthetic polymer fiber carpet.

### Patentansprüche

1. Verfahren zum Entfernen von Flecken, Schmutzteilchen oder Kombinationen davon aus einem Teppich aus synthetischen Polymerfasern, gekennzeichnet durch:  
In Kontakt Bringen des verfärbten oder verschmutzten Teils mit einer wirksamen Menge einer wässrigen Reinigungszusammensetzung, mit einem pH im Bereich von ungefähr 9 bis ungefähr 12,0, umfassend:
  - (a) eine wirksame Menge eines 1 bis ungefähr 5 Kohlenstoffatome enthaltenden wasserlöslichen Alkohols;
  - (b) ein in einer Menge im Bereich von ungefähr 3 bis ungefähr 15 Gewichtsprozent der wässrigen Reinigungszusammensetzung vorhandenes und ein Peroxyhydrat umfassendes Oxidationsmittel;
  - (c) eine Substanz zur pH-Einstellung; und
  - (d) den Rest Wasser
2. Verfahren nach Anspruch 1, wobei der wasserlösliche Alkohol ausgewählt wird aus der Gruppe bestehend aus Methylalkohol, Ethylalkohol, n-Propylalkohol, Isopropylalkohol, n-Butylalkohol, Isobutylalkohol, sec-Butylalkohol, tert-Butylalkohol, tert-Pentylalkohol, und Gemische davon.
3. Verfahren nach Anspruch 1 oder 2, wobei das Peroxyhydrat ausgewählt wird aus der Gruppe bestehend aus Wasserstoffperoxid, Natriumperoxid, Kaliumperoxid, Natriumperboratmonohydrat, Natriumperborattetrahydrat, Natriumper-sulfat, Natriumpercarbonat, Natriumperoxydihydrat, Natriumperoxydiphosphat, Kaliumperoxydiphosphat, Kaliumcarbonatperoxydihydrat, Harnstoffperoxid und Gemische davon.
4. Verfahren nach einem der Ansprüche 1 bis 3, wobei die synthetischen Polymerfasern ausgewählt werden aus der Gruppe bestehend aus Polyamid-, Polyester- und Polyolefinfasern.
5. Verfahren nach einem der Ansprüche 1 bis 4, wobei der pH der Zusammensetzung im Bereich von ungefähr 9,0 bis ungefähr 10,5 ist.
6. Verfahren nach einem der Ansprüche 1 bis 5, wobei der Alkohol in der Zusammensetzung in einem Bereich von ungefähr 10 bis ungefähr 20 Gewichtsprozent der Zusammensetzung vorhanden ist und das Peroxyhydrat in einer

Menge im Bereich von ungefähr 3 bis ungefähr 12,5 Gewichtsprozent der Zusammensetzung vorhanden ist.

7. Verfahren nach einem der Ansprüche 1 bis 6, wobei das Peroxyhydrat Wasserstoffperoxid und der Alkohol Isopropylalkohol ist.
8. Verfahren nach einem der vorhergehenden Ansprüche, wobei der Alkohol in einer Menge von ungefähr 10 Gewichtsprozent auf Basis des Gewichts der Zusammensetzung vorhanden ist und das Peroxyhydrat in einer Menge von ungefähr 9 Gewichtsprozent auf Basis des Gewichts der Zusammensetzung vorhanden ist und der pH der Zusammensetzung unter Verwendung von Ammoniumhydroxid eingestellt wird.
9. Verfahren nach einem der vorhergehenden Ansprüche, wobei die Flecken Kaffeeflecken sind.
10. Verwendung einer wässrigen Reinigungszusammensetzung, mit einem pH im Bereich von ungefähr 9 bis ungefähr 12 und umfassend:
  - (a) eine wirksame Menge eines 1 bis ungefähr 5 Kohlenstoffatome enthaltenden wasserlöslichen Alkohols;
  - (b) ein in einer Menge im Bereich von ungefähr 3 bis ungefähr 15 Gewichtsprozent der wässrigen Reinigungszusammensetzung vorhandenes und ein Peroxyhydrat umfassendes Oxidationsmittel;
  - (c) eine Substanz zur pH-Einstellung; und
  - (d) den Rest Wasser,
 zur lokalen Behandlung verfärbter oder verschmutzter Teile eines Teppichs aus synthetischen Polymerfasern.

### Revendications

1. Procédé d'élimination des taches, salissures ou des combinaisons de celles-ci, à partir de tapis ou moquette en fibres de polymère synthétique, caractérisé par: la mise en contact de ladite partie tachée ou souillée avec une quantité efficace d'une composition de nettoyage aqueuse ayant un pH compris entre environ 9 à environ 12,0 et comprenant:
  - (a) une quantité efficace d'alcool soluble dans l'eau contenant de 1 à environ 5 atomes de carbone;
  - (b) un oxydant présent à raison d'environ 3 à environ 15 pour cent en poids de ladite composition de nettoyage aqueuse et comprenant un peroxyhydrate;
  - (c) une substance d'ajustement de pH; et
  - (d) le reste en eau.

2. Procédé selon la revendication 1, dans lequel ledit alcool soluble dans l'eau est choisi parmi le groupe constitué par l'alcool méthylique, l'alcool éthylique, l'alcool n-propylique, l'alcool isopropylique, l'alcool n-butylique, l'alcool isobutylique, l'alcool sec-butylique, l'alcool tert-butylique, l'alcool tert-pentylique, et les mélanges de ceux-ci. 5
3. Procédé selon la revendication 1 ou 2, dans lequel ledit peroxyhydrate est choisi parmi le groupe constitué par le peroxyde d'hydrogène, le peroxyde de sodium, le peroxyde de potassium, le perborate de sodium monohydrate, le perborate de sodium tétrahydrate, le persulfate de sodium, le percarbonate de sodium, le peroxydihydrate de sodium, le peroxydiphosphate de sodium, le peroxydiphosphate de potassium, le peroxydihydrate de carbonate de potassium, le peroxyde d'urée, et les mélanges de ceux-ci. 10 15 20
4. Procédé selon l'une quelconque des revendications 1 à 3, dans lequel lesdites fibres de polymère synthétique sont choisies parmi le groupe constitué par les fibres de polyamide, de polyester et de polyoléfine. 25
5. Procédé selon l'une quelconque des revendications 1 à 4, dans lequel ledit pH de ladite composition est compris entre environ 9,0 et environ 10,5. 30
6. Procédé selon l'une quelconque des revendications 1 à 5, dans lequel ledit alcool est présent dans ladite composition à raison d'environ 10 à environ 20 pour cent en poids de ladite composition et ledit peroxyhydrate est présent à raison d'environ 3 à environ 12,5 pour cent en poids de ladite composition. 35 40
7. Procédé selon l'une quelconque des revendications 1 à 6, dans lequel ledit peroxyhydrate est le peroxyde d'hydrogène et ledit alcool est l'alcool isopropylique. 45
8. Procédé selon l'une quelconque des revendications précédentes, dans lequel ledit alcool est présent en une quantité d'environ 10 pour cent par rapport au poids de ladite composition, et ledit peroxyhydrate est présent en une quantité d'environ 9 pour cent par rapport au poids de ladite composition, et ledit pH de ladite composition est ajusté grâce à l'hydroxyde d'ammonium. 50 55
9. Procédé selon l'une quelconque des revendications précédentes, dans lequel lesdites ta- 60
- ches sont des taches de boisson à base de café.
10. Utilisation d'une composition de nettoyage aqueuse ayant un pH compris entre environ 9 et environ 12 et comprenant:
  - (a) une quantité efficace d'alcool soluble dans l'eau contenant de 1 à environ 5 atomes de carbone;
  - (b) un oxydant présent en une quantité comprise entre environ 3 et environ 15 pour cent en poids de ladite composition de nettoyage aqueuse et comprenant un peroxyhydrate;
  - (c) une substance d'ajustement de pH; et
  - (d) le reste en eau.
 pour nettoyer localement des parties tachées ou souillées d'un tapis ou moquette en fibres de polymère synthétique.