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Patents Assigned to Amway Corporation

Room air treatment system

Patent number: 4737173

Abstract: A room air treatment system in which air is drawn through a large particle prefilter, a first carbon filter, a second dual honeycomb matrix carbon filter in which the honeycomb cells in adjacent matrices are offset relative to one another, a blower mounted on vibration isolation mounts and is expelled by the blower into a plenum from when it exits upwardly through a fine particle HEPA filter and finally out through a final filter which is a combination fine particle filter and carbon filter. A filter change warning system is provided which includes a 3500 hour filter change indicator, an every 7000 hour filter change indicator, a back-up warning indicator, a mute button for muting the warning indicator and a recycle system for restarting the hour count.

Type: Grant

Filed: July 3, 1986

Date of Patent: April 12, 1988

Assignee: Amway Corporation

Inventors: Paul J. Kudirka, Gregory T. Grochoski, Robert W. Hamilton

Room air treatment system

Patent number: 4701195

Abstract: A room air treatment system includes a housing or cabinet defining a filter chamber and a blower chamber. A blower, disposed within the blower chamber, is connected to the filter chamber by a duct. Positioned within the filter chamber is a HEPA filter and activated carbon or charcoal filter assembly. The housing defines an air inlet covered by a prefilter and an air outlet within which a louver assembly is disposed. A pivotal bail or generally U-shaped rod engages a generally rectangular filter retaining frame to sealingly retain the filter stack within the filter chamber. A control system is included for controlling operation of the blower motor.

Type: Grant

Filed: July 3, 1986

Date of Patent: October 20, 1987

Assignee: Amway Corporation

Inventor: Henry J. Rosendall

Drain cleaner

Patent number: 4664836

Abstract: A drain cleaning composition includes at least about 40% by weight of a free-flowing coated alkali metal hydroxide and about 5% to 20% by weight of mixture of a hypochlorite generator and a peroxide generator. The hypochlorite and peroxide generators react to release oxygen gas and hypochlorite ions, the hypochlorite generator being in stoichiometric excess over the peroxide generator to produce free hypochlorite ions for dissolving hair and other protein based clogs. The coating on the drain cleaning composition prevents the hydroxide from reacting with the other components of the mixture before the mixture is added to water.

Type: Grant

Filed: September 18, 1985

Date of Patent: May 12, 1987

Assignee: Amway Corporation

Inventors: Roy M. Taylor, Jr., Steven R. Klemm

Dispensing pouch containing premeasured laundering compositions

Patent number: 4659496

Abstract: A dispensing pouch containing premeasured laundry compositions comprises a flexible, porous pouch having a plurality of valves or supplementary openings along its edges. The dispensing pouch permits rapid dispersion of a highly soluble laundry detergent through the pouch valves, which open as the pouch is compressed during laundry agitation in a machine washer. Washer-resistant fabric softener/antistatic chips larger than the pouch valve openings remain inside the pouch through wet cycles, to be dispensed as they melt and wick through the porous pouch fabric in a machine dryer.

Type: Grant

Filed: January 31, 1986

Date of Patent: April 21, 1987

Assignee: Amway Corporation

Inventors: Steven R. Klemm, Michael R. Foote

Filter stack

Patent number: 4636232

Abstract: The specification discloses a filter stack in which a plurality of individual tapered frames with openings on their widest sides are alternatively aligned, with filter paper between adjacent frames, such that the openings in one frame face one way and those in the next adjacent frame face the other way. Parallel tongues projecting from one surface of the frames insure that filter paper will be clamped in place. Air leaks are eliminated by shrink-wrapping said stack of frames, except on the ends with openings, to firmly hold them together.

Type: Grant

Filed: December 16, 1985

Date of Patent: January 13, 1987

Assignee: Amway Corporation

Inventor: David E. McDowell

Anti-dandruff cream rinse conditioner

Patent number: 4557928

Abstract: The specification discloses an anti-dandruff cream rinse conditioner based on zinc pyrithione, a cationic polymer, a suspension system consisting of (1) one of glucan gum, guar gum or mixtures thereof, and (2) hydroxyethylcellulose, as well as other optional conditioning agents and ingredients.

Type: Grant

Filed: November 2, 1983

Date of Patent: December 10, 1985

Assignee: Amway Corporation

Inventor: David A. Glover

Wringable mop assembly

Patent number: 4438540

Abstract: The specification discloses a wringable mop including a sponge pinchingly retained within a channel, a ferrule including an integral mounting plate, a clamp, a roller-carrying bridge, and a wringer handle. A tab extends from the wringer handle through an aperture in the bridge to pivotally connect the wringer handle and the bridge. The clamp is hingedly connected to the mounting plate at two locations, and a bolt passes through the clamp and mounting plate approximately midway between these two locations to draw the clamp and mounting plate together to secure the channel and sponge therebetween. A detent tab extends from the mounting plate into an aperture in the channel to prevent the channel from shifting laterally with respect to the mounting plate.

Type: Grant

Filed: November 20, 1981

Date of Patent: March 27, 1984

Assignee: Amway Corporation

Inventor: Walter H. Senour

Toothpaste

Patent number: 4414199

Abstract: The specification discloses a fluoride toothpaste using a calcined kaolin abrasive which is at least 80% calcined and which has a particle-size distribution such that the majority of particles are between 1 and 10 microns in diameter, and not more than 35% of the particles are under one micron in diameter. The resulting toothpaste shows surprising efficacy in terms of fluoride availability, fluoride uptake on human enamel, enamel solubility reduction and polishing and stain removal.

Type: Grant

Filed: July 15, 1982

Date of Patent: November 8, 1983

Assignee: Amway Corporation

Inventor: John R. Strobridge

Automatic actuator for air freshener dispenser or the like for toilets

Patent number: 4358860

Abstract: The specification discloses an automatic actuator for dispensers for air fresheners and the like mounted on the interior of a toilet tank, comprising an actuator arm having one end connected with the neck of the container, and extending generally laterally therefrom. A flexible tube communicates the outlet of the container with the exterior of the toilet tank. A pull rod is pivotally suspended from the actuator arm, and includes a valve head attached to the lower end of the rod. A cup has a valve seat located in the upper end thereof, in which the valve head is matingly received for selective reciprocation. The cup rises and descends, and suddenly empties during descent, with fluctuations in the water level of the toilet tank, thereby pivoting the actuator arm and neck to automatically dispense a predetermined amount of air freshener from the container with each flush of the toilet, and upon emptying, suddenly unweighting the dispenser valve to allow it to close.

Type: Grant

Filed: March 5, 1981

Date of Patent: November 16, 1982

Assignee: Amway Corporation

Inventor: David R. Church

Solid transparent cleanser

Patent number: 4165293

Abstract: The specification discloses a solid transparent soap employing a greater amount of sodium soap than prior artisans have ever been able to get into a transparent bar without plodding, milling or refining. In excess of 25% sodium tallow soap to as much as 55% sodium soap, based mainly on tallow, is mixed with 10% to 40% anionic or amphoteric surfactant, combinations and/or complexes thereof, and 65% to 15% of a two or six carbon dihydric alcohol. The resulting soap composition is transparent in that one can read 14 point type through a 1/4 inch bar and can be made by simple mixing, without plodding, milling or refining.

Type: Grant

Filed: July 31, 1978

Date of Patent: August 21, 1979

Assignee: Amway Corporation

Inventor: Robert A. Gordon

Glass container and adapter ring

Patent number: 4039097

Abstract: A nonaerosol container and a method for producing aerosol and nonaerosol containers having the same external appearance are disclosed. The method includes

forming bottles from the same basic mold using different neck inserts with the nonaerosol bottle being formed with a continuous thread portion and both bottles including a transfer bead. A standard decorative overlay is formed. A resilient adapter ring is formed and permits the assembly of the overlay to the nonaerosol container in cooperation with the transfer bead. A valve retainer cap cooperates with internal ribs formed as part of the overlay to secure the overlay in the aerosol application.

Type: Grant

Filed: June 9, 1976

Date of Patent: August 2, 1977

Assignee: Amway Corporation

Inventor: Theodore Paul Venti

Plastic bottle storable oven cleaner

Patent number: 4006091

Abstract: The specification discloses an oven cleaning composition which is surprisingly stable even in plastic bottles. A sufficient quantity of soluble hydroxide to provide a strong cleaning base for the composition is mixed with from about 1 to 10% by weight starch, from about 0.5 to about 5% by weight soap, an amount of a soluble di- or trivalent metallic ion source approximately stoichiometrically equivalent to the amount of soap, usually from about .1 to 1% by weight, and sufficient water to render the composition spreadable yet sufficiently consistent so that the composition is useful as an oven cleaner. Other additives such as surfactants are also disclosed.

Type: Grant

Filed: March 14, 1975

Date of Patent: February 1, 1977

Assignee: Amway Corporation

Inventors: Richard A. Lindblom, Richard E. Madden

Roasting rack

Patent number: D269660

Type: Grant

Filed: April 9, 1981

Date of Patent: July 12, 1983

Assignee: Amway Corporation

Inventor: Robert M. Powers

Dish**Patent number:** D269930**Type:** Grant**Filed:** April 9, 1981**Date of Patent:** August 2, 1983**Assignee:** Amway Corporation**Inventor:** Robert M. Powers**Muffin pan****Patent number:** D269935**Type:** Grant**Filed:** April 9, 1981**Date of Patent:** August 2, 1983**Assignee:** Amway Corporation**Inventor:** Robert M. Powers**Casserole****Patent number:** D270323**Type:** Grant**Filed:** April 9, 1981**Date of Patent:** August 30, 1983**Assignee:** Amway Corporation**Inventor:** Robert M. Powers**Invertible casserole-roaster or the like****Patent number:** D271839**Type:** Grant**Filed:** April 9, 1981**Date of Patent:** December 20, 1983**Assignee:** Amway Corporation**Inventor:** Robert M. Powers**Roaster****Patent number:** D271840**Type:** Grant

Filed: April 9, 1981

Date of Patent: December 20, 1983

Assignee: Amway Corporation

Inventor: Robert M. Powers

Jug

Patent number: D274130

Type: Grant

Filed: October 9, 1981

Date of Patent: June 5, 1984

Assignee: Amway Corporation

Inventor: Robert C. Collins, II

Air treatment unit

Patent number: D296129

Type: Grant

Filed: May 27, 1986

Date of Patent: June 7, 1988

Assignee: Amway Corporation

Inventors: Gordon W. Goodrich, Paul J. Kudirka

PREV ... 8 9 10 11 12 13 NEXT