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(54) Title: CHEMICAL COMPOSITION WITH HYDROGEN PEROXIDE AND A NANOEMULSION OF LONG-CHAINED ALCOHOLS

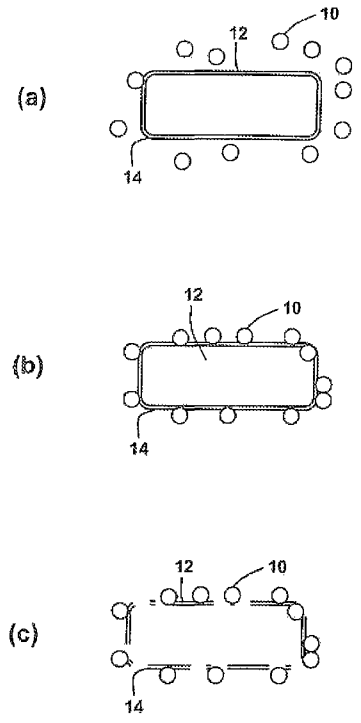


FIGURE 1

(57) Abstract: The present invention provides a chemical composition comprised of hydrogen peroxide and a nanoemulsion of long-chained alcohols which in combination these constituents act synergisticaliy boost the kill-time rate of hydrogen peroxide. The peroxide based nanoemulsion formulation for application to skin includes a cosmetically approved peroxide containing compound present in a range to give from about 0.1 to about 4 wt./wt. % released hydrogen peroxide, an organic acid present in a concentration from about 0.01 to about 5 wt./wt. % for adjusting a pH of the formulation in a range from about pH 1 to about pH 4, a long-chained (C9 to C22) aryl and/or alky! alcohol, present in a concentration from about 0.1 to about 20 wt./wt. %, and an emollient present in a concentration from about 0.1 to about 40 wt./wt. %, and an emulsifier present in a concentration from about 0.1 to about 20 wt./wt. % to render the formulation a nanoemulsion.

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