CLAIMS

I/We claim:

1. A light-curable artificial nail, comprising:

an adhesive section comprising a light-curable composition in a semi-cured state, wherein the light-curable composition is configured to transition from the semi-cured state to a cured state based on exposure to at least one wavelength of electromagnetic radiation;

a strengthening section disposed above the adhesive section; and

a polish section disposed above the adhesive section.

2. The light-curable artificial nail of claim 1, wherein the light-curable composition of the adhesive section is a first light-curable composition, wherein the polish section comprises a second light-curable composition in the semi-cured state.

3. The light-curable artificial nail of claim 2, wherein the first light-curable composition is different than the second light-curable composition.

4. The light-curable artificial nail of claim 1, wherein the adhesive section is designed to secure the light-curable artificial nail to a natural nail with an application of pressure and the at least one wavelength of electromagnetic radiation.

5. The light-curable artificial nail of claim 1, further comprising:

a decorative section disposed above the polish section, the decorative section comprising one or more decorations.

6. The light-curable artificial nail of claim 1, further comprising:

a top coat section disposed above the polish section.

7. The light-curable artificial nail of claim 6, wherein the light-curable composition of the adhesive section is a first light-curable composition, wherein the top coat section comprises a third light-curable composition in the semi-cured state, and wherein the first light-curable composition is different than the third light-curable composition.

8. The light-curable artificial nail of claim 6, wherein the top coat section is transparent.

9. The light-curable artificial nail of claim 1, wherein the strengthening section comprises a fabric material comprising at least one of fiberglass, silk, or linen.

10. The light-curable artificial nail of claim 1, wherein the polish section comprises a colorant.

11. The light-curable artificial nail of claim 1, wherein the light-curable composition comprises at least one component that is curable by ultraviolet (UV) light radiation, visible light radiation, or a combination thereof.

12. The light-curable artificial nail of claim 1, wherein the light-curable composition comprises at least one of a polymer, a film forming agent, a plasticizer, an additive, a dispersant, a photoinitiator, silicone, silicon, keratin, an ethylenically unsaturated monomer, an oligomer, an unreactive solvent or a colorant.

13. The light-curable artificial nail of claim 12, wherein the polymer comprises at least one of a polyurethane, a (meth)acrylic polymer, poly(methyl methacrylate), a vinyl polymer, a vinyl copolymer, a cellulose polymer or a styrene butadiene polymer.

14. The light-curable artificial nail of claim 12, wherein the film forming agent comprises at least one of an epoxy resin, a (meth)acrylic resin, a styrene resin, an acrylate-styrene resin, a vinyl resin, a polyester, an alkyd resin, a cellulose ester or a resin resulting from condensation of formaldehyde with an arylsulphonamide.

15. The light-curable artificial nail of claim 12, wherein the plasticizer comprises at least one of tributyl phosphate, tributoxyethyl phosphate, tricresyl phosphate, triphenyl phosphate, glycerol triacetate, butyl stearate, butyl glycolate, benzyl benzoate, butyl acetyltricinoleate, glyceryl acetyltricinoleate, dibutyl phthalate, diisobutyl phthalate, dioctyl phthalate, dimethoxyethyl phthalate, diamyl phthalate, triethyl citrate, tributyl citrate, tributyl acetylcitrate, tri(2-ethylhexyl)acetylcitrate, dibutyl tartrate or camphor.

16. The light-curable artificial nail of claim 12, wherein the additive comprises at least one of silica, fumed silica, diatomaceous earth, bentonite clay, kaolinite, pyrophyllite, sericite, a smectic, a vermiculite, montmorillinite, beidillite, nontronite, hectorite, talc, mica, zirconium

oxide, zinc oxide, magnesium oxide, saponite, calcium stearate, zinc stearate, aluminum stearate, stearalkonium, distearalkonium, an organic modified clay, a hydrogenated castor oil, a hydrogenated castor oil wax, an inorganically modified castor oil, an organically modified castor oil, a triglyceride, glyceryl tri-12-hydroxy stearate, a polyamide, a polyamide wax, 12-hydroxystearic acid diamide of ethylene diamine, 12-hydroxystearic acid diglycolamide, N-stearyl ricinoleamide, N-stearyl stearamide, a polyethylene oxide wax, a urea urethane, an acrylic resin, an amine salt of a polymeric polyester, salts of linear polyaminoamide salts of polymeric polyester, an amide solution of polycarboxylic acid, alkyl sultanate, alkylallyl sultanate, colloidal ester, polyester resin, phenol resin, melamine resin, epoxy resin, urethane resin, a polyimide resin or a polyester amide.

17. The light-curable artificial nail of claim 12, wherein the dispersant comprises at least one of a non-surface active polymer, a surface-active component added to a gel or a surfactant.

18. The light-curable artificial nail of claim 1, wherein the light-curable composition comprises about 1 weight percentage (wt%) to about 50 wt% of a resin, about 1 wt% to about 50 wt% of a photoinitiator and about 1 wt% to about 90 wt% of a polymer.

19. The light-curable artificial nail of claim 1, wherein in the semi-cured state, the light-curable composition comprises a modulus of elasticity of about 100 x 10^{-6} gigapascals (GPa) to about 2.50 GPa, and in the cured state the light-curable composition comprises a Rockwell hardness of about 1gram per cubic centimeter (g/cc) to about 110 g/cc.

20. The light-curable artificial nail of claim 1, wherein the light-curable artificial nail is free of at least one of a pre-formed hard plastic or an acrylic polymer.

21. The light-curable artificial nail of claim 1, wherein the light-curable artificial nail is in a shape of a natural nail, wherein said shape is ovular, rectangular, pointed, or rounded.

22. The light-curable artificial nail of claim 1, wherein the polish section is disposed above the strengthening section.