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(54) Title: METHOD FOR THE TREATMENT OF SPIDER SILK-FILAMENT FOR USE AS THREAD OR A COMPOSITION IN THE MANUFACTURE OF COSMETIC, MEDICAL, TEXTILE OR INDUSTRIAL APPLICATIONS, SUCH AS BIO-ARTIFICIAL SKIN OR TISSUE BASED ON (RECOMBINANT) SPIDER SILK

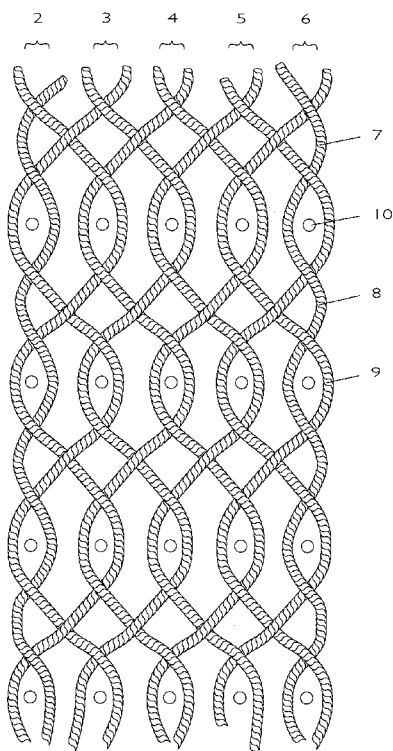


Fig. 2

(57) Abstract: A method for the treatment of spider silk filament for use as a thread or composition in the manufacture of cosmetic, medical, textile, and industrial applications, wherein the spider silk filament, derived from genetically modified organisms, is treated with at least one component selected from the group consisting of vitamins, hormones, antioxidants, chelating agents, antibiotics, preserving agents, fragrances, dyes, pigments, magnetic nanoparticles, nanocrystals, cell adhesion enhancers, thermal insulators, shrinkage agents and cosmetic, medical or dermatological active substances. Textile fabrics obtained by this method are stronger, bio-compatible, bio-degradable and have a higher thermal conductivity. Treated spider silk filament can also be applied in an oil-in-water or water-in-oil protective cream that is hypoallergenic and ensures a firmer skin.

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