Patent Search

Invention Title	AN HERBAL-POLYMERIC BIOFILM SPRAY FOR TOPICAL MANAGEMENT OF HYPERHIDROSIS
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Abstract:

Palmar hyperhidrosis is a condition where people sweat much from their palms. This makes it hard for them to do their daily activities. It affects their life. The usual t like antiperspirants and medicines, can irritate the skin. Have bad side effects. The goal of this study was to make a spray to help people with palmar hyperhidrosis. T made from herbs. It is easy to put on the skin. sage and witch hazel extract selected for their well-documented natural astringent, pore-constricting, and sweat-modu properties. We made a spray that dries quickly and sticks to the skin. When you put it on it forms a layer that you can peel off (peelable biofilm). This layer helps prote on your palms. The spray is a way to reduce sweating without hurting your skin. It is easy to use. It does not invade your body. The herbal spray is an alternative to th antiperspirants that people use to treat palmar hyperhidrosis. It is a solution for people who sweat too much from their palms. This spray can help people, with palm hyperhidrosis.

Complete Specification

properties of these compounds help tighten the skin surface and limit the release of sweat from eccrine sweat glands present in the palms. In addition, the herbal e provide antimicrobial and soothing properties that help maintain skin hygiene and prevent irritation.

The formulation further includes a polymeric film forming component that enables the formation of a thin and flexible biofilm after application. Suitable film formir polymers may include polyvinyl alcohol, hydroxypropyl methylcellulose, chitosan, sodium alginate, polyvinylpyrrolidone, or combinations thereof. These polymers a selected for their biocompatibility, skin adhesion properties, and ability to form transparent films when the solvent evaporates. The polymeric network encapsulate herbal active ingredients and ensures their uniform distribution across the skin surface. The resulting film is flexible and peelable, allowing users to remove it easily without leaving residue or causing discomfort.

A solvent system is incorporated in the formulation to facilitate spray delivery and rapid drying after application. The solvent system may consist of purified water, ethanol, or a hydroalcoholic mixture that enables the formulation to be evenly sprayed over the affected skin area. Upon application, the solvent evaporates quickly leaving behind a uniform polymeric film containing the herbal active ingredients. Plasticizers such as glycerol, propylene glycol, or polyethylene glycol may also be included to improve the flexibility and elasticity of the biofilm. These plasticizers prevent cracking or brittleness of the film and enhance user comfort during hand movements.

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