

A BUILT-IN NON-VERBAL INSTRUCTIONAL DEVICE INTEGRATABLE TO APPLICATORS

ABSTRACT

The present subject matter relates to a built-in non-verbal compact instructional device integratable to an applicator having a microdevice for painlessly perforating the skin and optionally an active agent for application to the area of skin being perforated. The microdevice of the applicator referred to herein can include microneedles, microneedle arrays, microblades, microblade arrays, microknives, microknife arrays, and Functional MicroArrays (FMAs). The active agent can be stored in a first chamber. The microdevice is useful for perforating the stratum corneum layer, the outer layer of skin, without significant pain or discomfort to a patient. The active agent stored in the applicator is applied to the area of skin being perforated by the microdevice. The built-in non-verbal compact instructional device verifies compliance with predetermined methods of using the applicator, such as, for example, a light to indicate that the microdevice is applied to the skin with the recommended amount of force for perforating the skin. The applicator is useful for providing an enhanced delivery of an active agent, with minimal discomfort, for therapeutic or cosmetic treatment, such as, for example, topical treatment for acne, or other skin disorders, wrinkles, blemishes, etc. The applicator is also useful for providing improved systemic or localized delivery of an active agent, such as, for example, L-carnitine, insulin, botulinum toxin, etc.

FIG. 2A