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Abstract

DEVICE FOR PAINLESS INJECTION

A device for simulating skin for painless introduction or removal of a needle, the device comprising an enclosure adapted to be worn on a body part of a user, one or more rotatable brushes disposed on a periphery of the enclosure, adapted to touch a part of skin of the user after the device is worn, one or more motors disposed in the enclosure and connected with the one or more rotatable brushes, and a button disposed on the enclosure connected with the one or more motors to actuate the device. On actuation of the button, the one or more motors are configured to rotate the one or more rotatable brushes against the skin. Further, the rotation of one or more rotatable brushes against the skin is configured to stimulate mechano-receptors of the skin to modulate a sensation of pain when a needle is introduced into the skin or removed from the skin.

[Figure 3]