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(54) **USE OF PENETRATION ENHANCERS AND BARRIER DISRUPTION AGENTS TO ENHANCE THE TRANSCUTANEOUS IMMUNE RESPONSE**

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(58) **Field of Search** 424/234.1, 278.1, 424/283.1, 184.1, 204.1, 206.1, 241.1, 265.1, 274.1

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(57) **ABSTRACT**

A transcutaneous immunization system where the topical application of an adjuvant and an antigen or nucleic acid encoding for an antigen, to intact skin induces a ystemic or mucosol antibody response. The immune response so elicited can be enhanced by physical or chemical skin penetration enhancement.

11 Claims, 5 Drawing Sheets