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(54) Title: ANESTHETIC COMPOSITION AND METHOD OF ANESTHETIZING THE EYE

(57) Abstract: A topical ophthalmic anesthetic composition includes a formulation with an amount of articaine to provide anesthetic properties when applied topically to the eye, and a pH, viscosity, osmolality, dissociation constant, and additives such as antioxidants, buffers, methylcellulose, to achieve efficacy and safety. The composition can contain articaine in amounts of about 4.0% w/v to about 12.0% w/v and have a pH of about pH 3.5 to pH 7.0. The buffer can be borate/mannitol complex obtained from boric acid or salt thereof and D-mannitol. The articaine formulations can achieve adequate anesthesia of the internal aspect of the eye wall by topical application, without the use of an injectable anesthetic. Exemplary implementations of the disclosure include formulations include articaine in an amount of at least 7.0% w/v, where the formulation is an aqueous solution, a gel, an ointment, or in an encapsulated form.



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