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पेटेंट कार्यालय का एक प्रकाशन
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(54) Title of the invention : EDIBLE TOOTHPASTE AS A SAFE DENTIFRICE FOR CHILDREN AND SPECIAL NEEDS PATIENTS

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(57) Abstract :
 The present invention relates to an edible toothpaste formulation specifically designed for children, bedridden patients, individuals with neuromuscular degenerative diseases, orofacial paralysis, psychiatric patients, and other groups requiring assisted tooth brushing. Unlike conventional toothpastes that contain detergents, fluorides, and potentially harmful chemicals, this edible toothpaste comprises natural and safe ingredients including calcium carbonate, dicalcium phosphate, sodium bicarbonate, L-arginine, xylitol, glycerol, aloe vera gel, guava leaf extract, and essential oils. The formulation maintains effective cleaning and antimicrobial properties while being completely safe for ingestion. The toothpaste exhibits optimal pH levels, particle size distribution, wettability, spreadability, and stability characteristics comparable to commercial formulations while eliminating the risk of toxicity upon swallowing.

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