

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201841041192 A

(19) INDIA

(22) Date of filing of Application :31/10/2018

(43) Publication Date : 30/11/2018

(54) Title of the invention : POLYHERBAL GEL FORMULATION FOR MANAGEMENT OF TEETHING PROBLEMS

(51) International classification	:G06Q10/00	(71)Name of Applicant : 1)DR. MUKTAI ABHAYDESHPANDE Address of Applicant :DEPARTMENT OF PEDODONTICS AND PREVENTIVE DENTISTRY, KLE ACADEMY OF HIGHER EDUCATION AND RESEARCH'S KLE V.K. INSTITUTE OF DENTAL SCIENCES, NEHRU NAGAR, JNMC CAMPUS BELAGAVI KARNATAKA 590010 INDIA muktaideshpande96@gmail.com Karnataka India
(31) Priority Document No	:NA	2)DR.SHIVAYOGI M.HUGAR
(32) Priority Date	:NA	3)U.B BOLMAM
(33) Name of priority country	:NA	4)DR. MADHURA V. MUNDADA
(86) International Application No	:NA	5)DR SANJAY K
Filing Date	:NA	6)DR. SHWETA SHIVAYOGI HUGAR
(87) International Publication No	: NA	7)LAVANYA B. BHANDARI
(61) Patent of Addition to Application Number	:NA	8)DR. SANJANA SONETA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)DR. MUKTAI ABHAYDESHPANDE
Filing Date	:NA	2)DR.SHIVAYOGI M.HUGAR
		3)U.B BOLMAM
		4)DR. MADHURA V. MUNDADA
		5)DR SANJAY K
		6)DR. SHWETA SHIVAYOGI HUGAR
		7)LAVANYA B. BHANDARI
		8)DR. SANJANA SONETA

(57) Abstract :

The present invention relates to the development of polyherbal gel formulation with extracts of Azadirachta indica-neem, Ocimum tenuiflorum-tulasi, Glycyrrhiza glabra-liquorice, Stevia rebaudiana-stevia, combination of Emblica officinalis, Terminalia bellirica and Terminalia chebula triphala and essential oils-Syzygium aromaticum-clove oil and Mentha spicata-spearmint oil for medical and dental applications. It specifically relates to the development of gel formulation against the S. mutans, P. gingivalis, Lactobacilli, E. faecalis, Candida albicans and P. intermedia and as pulpotomy agent, healing gel, for ulcer and extracted wound, pericoronitis, as a local drug delivery after conventional scaling and root planning. The invention also pertains to the development of process for preparation of gel formulation with aqueous extracts for medical and dental applications. The polyherbal gel formulation of the present invention has beneficial effects in relieving teething problems faced by children and also can be used in treatment of oral diseases in children due to its antibacterial, anti-inflammatory, astringent, anti-fungal and healing properties. Aqueous extract of polyherbal gel has a significant inhibitory action against the various pathogens which indicates the presence of active compounds that can be incorporated into modern oral care systems for overcoming bacterial resistance with synthetic agents. We recommend that this developed gel is boon for managing oral diseases especially in children due to its multiple uses.

No. of Pages : 30 No. of Claims : 10