

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201741010896 A

(19) INDIA

(22) Date of filing of Application :28/03/2017

(43) Publication Date : 14/04/2017

(54) Title of the invention : AUSFIN- AUDIO SENSORY FEEDBACK INTERFACE DEVICE

(51) International classification	:G06K9/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Jaganru Sri Shivrathreeshwara University
(32) Priority Date	:NA	Address of Applicant :Sri Shivarathree'shwara ~Nagar, Mysuru
(33) Name of priority country	:NA	570015, Karnataka, India Karnataka India
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr.Prashanth S
(87) International Publication No	: NA	2)Dr.Girish M S
(61) Patent of Addition to Application Number	:NA	3)Dr.Henal Gandhi
Filing Date	:NA	4)Mr.Ajit H M
(62) Divisional to Application Number	:NA	5)Mr.Rahu Bachawala
Filing Date	:NA	

(57) Abstract :

Abstract Parents and caregivers often have concerns about their childTMs tolerance of dental appointments. Paedodontists should recognize that each child is unique and may need extra care to feel comfortable. Even with extensive technological advancements in the field of dentistry, effective communication between a child and the Pedodontist during the dental therapeutic procedure depends largely on the hand gestures of a willing patient. Intra-operatively the ability of a child to verbally communicate is restricted by the use of rubber dam during endodontic therapy (Root Canal Treatment), matrices and retainers during restorative (tooth filling) procedures. The very presence of the skillful hands of the Pedodontist busily executing treatment plan in the mouth will make it difficult-for the child patient to talk and communicate during the treatment. Deaf and mute patients in particular often fail to obtain needed dental care because of communication difficulties experienced during the treatment situation.Fear and anxiety associated with dental treatment are well recognized factors and have a negative impact on patientTMs willingness to get dental treatment. Inability to effectively communicate with the dentist during the procedure adds to the childTMs already existing fear and anxiety. To bridge this inevitable gap of communication, Audio Sensory Feedback Interface device (AuSFln)has been developed, which pre-records the messages that are customizable to any of the treatment procedure. During the treatment, the child patient can effectively communicate through these prerecorded messages with the dentist, just by pressing the appropriate button. Also by incorporating all the electronics inside a soft toy, an attempt is made to make this device attractive and friendly to children.

No. of Pages : 8 No. of Claims : 10