

(54) Title of the invention : A REFLECTION-BASED INTRAORAL IMAGING DEVICE FOR DENTAL EXAMINATION AND A METHOD OF OPERATING THE DEVICE THEREOF

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(71)Name of Applicant :

1)JSS Medical College, JSS Academy of Higher Education & Research (Deemed to be university)

Address of Applicant :Sri Shivarathreshwara Nagara, Mysuru, Karnataka, India. Mysore -----

**Name of Applicant : NA
Address of Applicant : NA**

(72)Name of Inventor :

1)Dr.G Hari Prakash

Address of Applicant :Dept of Community Medicine, JSS Medical College, JSS Academy of Higher Education & Research, Mysuru Mysore -----

2)Dr. Sunil Kumar D

Address of Applicant :Dept of Community Medicine, JSS Medical College, JSS Academy of Higher Education & Research, Mysuru Mysore -----

3)Dr.Deepika Yadav

Address of Applicant :Dept of Community Medicine, JSS Medical College, JSS Academy of Higher Education & Research, Mysuru Mysore -----

4)Dr.Sunitha S

Address of Applicant :Dept of Public Health Dentistry, JSS Dental College, JSS Academy of Higher Education & Research, Mysuru Mysore -----

(57) Abstract :

A REFLECTION-BASED INTRAORAL IMAGING DEVICE FOR DENTAL EXAMINATION AND A METHOD OF OPERATING THE DEVICE THEREOF
ABSTRACT 5 A reflection-based intraoral imaging device (100) for dental examination is provided. The device (100) includes a mouthpiece unit (103) to be inserted into a mouth of a patient. The mouthpiece unit (103) includes one or more antifogging mirrors (106)/ (108) placed at a 45-degree angle to each other, allowing for a clear reflection of an oral cavity of the patient. The device further includes a body section (105) configured to detachably attach the mouthpiece unit (103) to an adjustable phone holder (102), providing structural integrity and easy handling. The device further includes the adjustable phone holder (102), detachably attached to the mouthpiece unit (103) via the body section (105) for securing a smartphone and including an adjustable screw mechanism 15 for a precise alignment for ensuring correct positioning of a smartphone camera to capture one or more images reflected via the mouthpiece unit (103). [FIGS.1A-1C]

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