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(54) Title of the invention : TARGET INDICATING LIGHT BEAM DEVICE FOR ENHANCING THE POSITIONING ACCURACY OF INTRA ORAL X-RAY MACHINE

<p>(51) International classification :A61B0006000000, A61B0006080000, A61B0006140000, A61B0006100000, H05G0001340000</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number Filing Date :NA :NA</p> <p>(62) Divisional to Application Number Filing Date :NA :NA</p>	<p>(71)Name of Applicant : 1)JSS DENTAL COLLEGE AND HOSPITAL, JSS ACADEMY OF HIGHER EDUCATION AND RESEARCH Address of Applicant :SRI SHIVARATHREESHWARA NAGARA, BANNIMANTAP, MYSURU, KARNATAKA 570004 ----- Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)Prasannasrinivas Deshpande, MDS, DLD Address of Applicant :Assistant Professor, Department of Oral Medicine and Radiology, JSS Dental College and Hospital, JSS Academy of Higher Education & Research, SS Nagar, Bannimantap, Mysore 570015 Karnataka, India ----- - 2)Dr Karthikeya Patil, MDS Address of Applicant :Professor & Head, Department of Oral Medicine and Radiology, JSS Dental College and Hospital, JSS Academy of Higher Education & Research, SS Nagar, Bannimantap, Mysore 570015 Karnataka, India ----- - 3)Dr Mahima V.G, MDS Address of Applicant :Professor, Department of Oral Medicine and Radiology, JSS Dental college and Hospital, JSS Academy of Higher Education & Research SS Nagar, Bannimantap, Mysore 570015 Karnataka, India ----- 4)Dr Mrinal Limaye, MDS Address of Applicant :Assistant Professor, Department of Periodontology, KVG Dental College and Hospital, Kurunjibhag, Sullia 574327 Karnataka, India -----</p>
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(57) Abstract :

Target indicating light beam device for enhancing the positioning accuracy of intra oral x-ray machine is the proposed invention that focuses on resolving the issues that are with current x-ray technologies i.e., the patient will be exposed to radiation frequently. Especially fresh dental graduates, radiographers and trainees experience these issues resulting in repeated patient exposure to radiation. There is a need to implement a simple device which can indicate the exact area of face/jaw being exposed by x-ray beam can avoid this problem of sub-optimal quality radiograph with partial area of interest coverage and thus minimizing the repetition of dental radiographs. The device consists of 8-10 monochromatic collimated class 3a/3b laser lights embedded in a firm ring made of plastic. These lights are powered by rechargeable battery which is housed in a hard plastic frame connected to the ring.

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