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(57) Abstract :
Conventionally available light curing devices for restorative dental material are not ideal to employ in rural areas where there is lack of electricity. Besides, the conventionally available light curing devices take more curing time, this is probably due to lack of maintaining proper distance between the light source and the restorative material for filling the dental cavities. Accordingly, the present disclosure provides a sensor based LED light curing device (100) for curing dental restorative materials (105). More particularly, the device employs solar cell or panel (300b) for charging the battery (220h) and also employs a sensor (200d) for alarming the dental practitioners and for accurately maintaining the effective distance between the transparent glass lenses (200a), (200b), (200c) and the tooth (800) filled with the dental restorative material (105) for effective bonding and depth of curing the restorative material.

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