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(57) Abstract :

AN ORTHODONTIC DENTAL DEVICE WITH LED FOR GUM DISEASES, WHITE SPOT LESIONS, AND TOOTH WHITENING
ABSTRACT An orthodontic dental device (100) with LED for gum diseases, white 5 spot lesions, and tooth whitening is provided. The dental device (100) includes a dual-sided detachable head system (101) including a first detachable head (102a) and a second detachable head (102b) attached to a central unit (103) of the dental device (100) to provide unparalleled flexibility for oral care, a sonic interdental proxabrush (104) equipped with 10 a soft silicone tip (110) attached to first side of the dental device (100) and the first detachable head (102a) for removing food debris and plaque in teeth, a liquid-infusing microchannel (106) integrated within the sonic interdental proxabrush (104) for delivering essential liquid to balance pH levels and support tooth remineralization, a LED (108) integrated to the first detachable head (102a) and near the sonic interdental prox15 abrush (104) for emitting a near-infrared light for promoting tissue regeneration and healing while cleaning the gingival sulcus. [FIG. 1A]

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