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(57) Abstract :

TITLE: SMART ERGONOMIC SUPPORT SYSTEM FOR DENTIST APPLICANT: SRI VENKATESHWARAA DENTAL COLLEGE  
ABSTRACT The present invention discloses a smart ergonomic support system for dentist to observe and correct posture for avoiding musculoskeletal disorders. The system of the present invention comprises of • user interface panel[1] to facilitate the Dentist to select type of dental procedures, comprising three switches[6], Mode (0, 1, 2) with respective LED lights[7] LED (0,1,2); • posture observation unit[2] to observe Musculoskeletal strain, comprising image capturing section[8], skeletonization section[9], image collection section[10] and Image processing section[11]; • posture correction unit[3] to assist in correcting the posture comprising video capturing section[12], video processing section[13] and repetition counting section[14]; • control unit[4] to control the entire system, comprising image processing control section[15], video processing control section[16], mode control section[17], user interaction control section[18] and power management section[19]; • user interface unit[5] to alert, declare and aid in posture correction, comprising alert declaration section[20], posture status declaration section[21] and posture correction aid section[22].

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