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(57) Abstract :
The present invention relates to an automatic height adjustment system (100) for a Table (102), comprising at least one leg (104), a lifting mechanism (114) configured with at least one telescopic leg (116) to provide up or down motion to a platform (108). The table (102) comprising of sensor units (104) for detection of distance and angle of eyes of a user (110) positioned in front of the table (102) with respect to an object (106) placed over the table (102). Table (102) is also configured with a control unit (112) comprising a memory unit (202), processing units (204), and a power supply unit (206). The control unit (112) is operably connected with the sensors (104) to receive inputs from the sensors (104) and transmit signals to the lifting mechanism (114). The processing unit (204) uses Artificial Intelligence (AI) algorithm-based calculation that generates command signals for automatic height adjustment of the table (102).

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