

(54) Title of the invention : AN AUTOMATIC HEIGHT ADJUSTABLE WORKBENCH

(51) International classification	:B08B0015020000, B60K0037060000, F01C0021080000, B25J0011000000, F03D0009000000	(71) <b>Name of Applicant :</b> <b>1)Chitkara Innovation Incubator Foundation</b> Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
(31) Priority Document No	:NA	(72) <b>Name of Inventor :</b>
(32) Priority Date	:NA	<b>1)MALHOTRA, Reetu</b>
(33) Name of priority country	:NA	<b>2)GOYAL, Aashish</b>
(86) International Application No	:NA	<b>3)BATRA, Mridula</b>
Filing Date	:NA	<b>4)BANSAL, Ritvik</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A height adjustable workbench is disclosed. The work bench includes: a fixed surface; an adjustable surface configured to move upwards and downwards in a plane perpendicular to the fixed surface; a set of linear actuators coupled to the fixed surface and the adjustable surface to facilitate the upward and downward movement of the adjustable surface; a set of rotary devices coupled to the set of linear actuators, the rotary device configured to rotate selectively in clockwise and anticlockwise directions to move the adjustable surface in the upward and the downward directions, wherein when the rotary device rotates in clockwise direction the adjustable surface moves away from the fixed surface, and wherein when the rotary device rotates in anticlockwise direction the adjustable surface moves towards the fixed surface; a first set of sensors coupled to the adjustable surface, and configured to sense one or more parameters associated with height of a user; and a control unit operatively coupled to the first set of sensors and the set of rotary devices, the control unit configured to: compare the sensed one or more parameters with a dataset comprising predefined one or more parameters; generate a height adjusting signal based on the comparison; and transmit the generated height adjusting signal to the set of rotary devices, wherein based on receipt of the height adjusting signal, the set of rotary devices rotates selectively in clockwise or anticlockwise direction to adjust the distance between the adjustable surface and the fixed surface.



No. of Pages : 15 No. of Claims : 10