

ABSTRACT

A HEIGHT ADJUSTMENT SYSTEM FOR A DESK OR WORKSTATION

A height adjustment system for a desk, workstation or the like is provided comprising a plurality of height adjustable legs (20, 30, 30'; 520, 530, 530') each having a first part in the form of a hollow column (31; 531) and a second part (32, 34; 532, 534) movable relative to the first part in a vertical direction. The second part of each leg includes a gearbox housing containing a crown gear provided on a vertically extending rotatable shaft (35, 535) and at least one pinion gear (310) engageable with said crown gear. The vertical shaft includes a screw-threaded portion (36; 536) engaged by nuts (38; 538) on a base plate of the column. A winding mechanism (50) is provided for rotating a horizontally extending shaft (211, 311) on which the pinion gear is provided. Rotation of the horizontal shaft (211, 311) causes the vertical shaft to rotate thereby moving the second part (32, 34; 532, 534) relative to the column (31; 531) to adjust the height of a top member (10; 510) supported by the leg. The gearbox housing (32; 532) includes ball bearing race assemblies (340; 350; 360) for the crown and pinion gears which enable the height of two or more legs to be adjusted simultaneously by a single winding mechanism. The leg also includes a self-adjusting linear bearing (40) between telescopically movable parts of the leg. In a further embodiment, the height adjustment system may also include a duct for cabling (555), a cable tray (560) and a hinged duct cover (590) pivotally attached to the top member (510).

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