

Title (en)
A device for controlling the closing movement of a sliding door

Title (de)
Steuervorrichtung für den Schliessvorgang eines Schiebetores

Title (fr)
Dispositif de commande pour la fermeture d'une porte coulissante

Publication
EP 1186739 B1 20041124 (EN)

Application
EP 00610089 A 20000904

Priority
EP 00610089 A 20000904

Abstract (en)
[origin: EP1186739A1] A movement control device (17) is used for controlling the closing movement of a sliding door (10), which is movable between open and closed positions. The door is biased towards one of these positions by a weight (18), which is connected to the door via a wire or string (15). The control device (17) comprises a frame (22), which forms part of or is connectable to said weight (18). A wire reversing pulley or roller (40) is rotatably mounted on the frame has a peripheral, circular groove or track (41) formed therein for receiving said wire (15) and defining a first plane. An automatic braking means, such as an eddy current braking device (34) is mounted on the frame (22) and drivingly connected to the reversing pulley (40). The control device further comprises a guide pulley (46), which is rotatably mounted on the frame (22) above the reversing pulley (40) and which has a circular groove or track (47) formed therein defining a second plane. This second plane defines an acute angle with said first plane. The tension wire (15) may then be passed around the reversing pulley and into engagement with opposite sections of the guide pulley such that the wire parts extending between the pulleys are mutually crossing without contacting each other. Thereby a firm non-slip engagement between the wire (15) and the reversing pulley (40) may be obtained. The frame may be in the form of a parallelepiped shaped housing (22) having a hinge connected cover part (28) on which the guide pulley (46) is mounted. <IMAGE>

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