

Title (en)

Turning device for sectional overhead door

Title (de)

Wendevorrichtung für Deckengliedertor

Title (fr)

Dispositif de tournement pour porte sectionnelle relevable

Publication

EP 1120523 A2 20010801 (EN)

Application

EP 01660011 A 20010122

Priority

FI 20000147 A 20000126

Abstract (en)

The invention relates to a turning device in connection with a laminated lift door comprising horizontal lamellas (1), the door being designated to move by track wheels along tracks provided on the sides of the door, whereby the turning device to be arranged on at least one side of the door comprises a vertical frame (5) to be attached to an edge of an uppermost lamella (1), an articulated arm (6) comprising two articulated arm parts (8, 9) pivotally mounted to each other and allowed to fold in one direction, a first articulated arm part (8) being pivotally mounted to the frame by a first frame joint (10), a turning arm (11) whose one end is pivotally mounted by a second frame joint (12) in the frame underneath the pivoted mounting point (10) of the first articulated arm part (8) while a second end is pivotally mounted in the same axle (19) as a second articulated arm part (9), rotatably with respect to the second articulated arm part (9), a toothed wheel element (13) unturnably attached with respect to the second articulated arm part (9) but turnably attached with respect to the turning arm (11), an uppermost track wheel (3a) designated to move along the track (4) and attached to the same axle (19) as the toothed wheel element (13), and a mechanical control element (14) attached to the curved part (4c) of the track and arranged to be in engagement over a predetermined distance with the toothed wheel element (13) during the beginning of an opening position and the end of a closing position of the door, whereby, when the door is opened, the mechanical control element (14) turns the toothed wheel element (13) and thus also the articulated arm parts (8, 9) towards each other, which forces the uppermost track wheel (3a) and the uppermost lamella (1) closer to each other, thus causing the uppermost lamella to turn. <IMAGE> <IMAGE> <IMAGE>

IPC 1-7

E05D 15/24

IPC 8 full level

E05D 15/24 (2006.01)

CPC (source: EP)

E05D 15/248 (2013.01); **E05Y 2900/106** (2013.01)

Cited by

US9995076B1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1120523 A2 20010801; FI 20000147 A0 20000126; FI 20000147 A 20010727

DOCDB simple family (application)

EP 01660011 A 20010122; FI 20000147 A 20000126