

Title (en)
FAST-SLIDING ROLL UP DOOR COMPRISING A FULLY FLEXIBLE CURTAIN

Title (de)
SCHNELLLAUFTOR MIT FLEXIBLEM BEHANG

Title (fr)
PORTE ENROULABLE COULISSANTE RAPIDE COMPRENANT UN RIDEAU ENTièrement FLEXIBLE

Publication
EP 3591161 A1 20200108 (EN)

Application
EP 19000311 A 20190628

Priority
IT 201800006812 A 20180629

Abstract (en)
A fast-sliding roll up door comprises a flexible curtain (12) adapted to close an opening defined by an upper crosspiece (14) and a base plane (16), and by a pair of longitudinal uprights (18). The upper edge (12a) of the curtain (12) is connected to a winding shaft (20) driven in rotation by control means that control the vertical movement of the curtain (12), which include a transmission roller (24) parallel to the winding shaft (20), whose outer surface is engaged by a portion of the curtain (12). The rotation of the roller (24) is controlled by driving means that include a first pair of gear wheels (28) coupled to the ends of the roller (24), and a second pair of rotatable gear wheels (38) adjacent to the base plane (16). Such gear wheels (28, 38) are engaged by flexible drive members (32, 36) each of which supports a side dragging member (40) for dragging the curtain (12). Counterweight means (42, 44) connected to said winding shaft (20) controls the rotation thereof.

IPC 8 full level
E06B 9/13 (2006.01); **E06B 9/58** (2006.01); **E06B 9/68** (2006.01); **E06B 9/70** (2006.01)

CPC (source: EP)
E06B 9/13 (2013.01); **E06B 9/581** (2013.01); **E06B 9/68** (2013.01); **E06B 9/70** (2013.01); **E06B 2009/585** (2013.01)

Citation (applicant)
DE 4005963 A1 19900906 - ITW IND UND WERKZEUGMASCHINEN [DE]

Citation (search report)
• [A] US 5139075 A 19920818 - DESROCHERS EDDY [CA]
• [A] US 2016115731 A1 20160428 - PFAFF RYAN [US], et al
• [AD] DE 4005963 A1 19900906 - ITW IND UND WERKZEUGMASCHINEN [DE]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3591161 A1 20200108; IT 201800006812 A1 20191229

DOCDB simple family (application)
EP 19000311 A 20190628; IT 201800006812 A 20180629