

Title (en)

Shading and/or darkening device with flexible membrane

Title (de)

Schattierungs- und/oder Abdunkelungseinrichtung mit einer biegsamen Membran

Title (fr)

Dispositif d'ombrage et/ou d'occultation à membrane souple

Publication

EP 0676514 B1 19990623 (FR)

Application

EP 95440010 A 19950323

Priority

- FR 9403731 A 19940325
- FR 9405134 A 19940425

Abstract (en)

[origin: EP0676514A1] The blind is made of a flexible fabric (2) which covers the glazed surface (3). It has a shaft (4) on which and from which the fabric unrolls. The end of this shaft (5) is attached to a support (6). The shaft (4) moves and when the blind is unrolled it moves to the front, or above the surface. The support (6) to which the end of the fabric is fixed, is attached to a substrate, such as a wall. When the blind is vertical or at a steep angle, the blind is unrolled by rotation of the shaft (4) and the tension exerted on the membrane by the weight of the shaft. When the blind is horizontal or at a slight angle there are extending arms (9) which push the shaft over the surface. The arms are elastically sprung to move to their opened position. The back end of each arm (12) is mounted on a fixed base (13) at the same height as the support (6). The other end (14) of each arm (10, 11) is fixed to the shaft (4) by a crossbar (16) which lies parallel to the shaft. At each end (17 18) there is a section (19) in which the shaft rotates. There are sections (20) attached to the upper section (16) with rollers or wheels (8) which help to roll the blind. The blind is rolled and unrolled by an electric motor, preferably a tubular motor which is placed inside the shaft. An electric cable (27) can be provided inside one of the arms (10, 11) to drive the motor. <IMAGE>

IPC 1-7

E04F 10/06; E06B 9/64

IPC 8 full level

E04F 10/06 (2006.01); **E06B 9/64** (2006.01)

CPC (source: EP)

E04F 10/0607 (2013.01); **E04F 10/0618** (2013.01); **E04F 10/0625** (2013.01); **E04F 10/0674** (2013.01); **E04F 10/0677** (2013.01); **E06B 9/64** (2013.01); **E04F 10/0666** (2013.01)

Cited by

FR2782103A1; US8051866B2; US11428011B2

Designated contracting state (EPC)

AT BE CH DE LI LU NL

DOCDB simple family (publication)

EP 0676514 A1 19951011; **EP 0676514 B1 19990623**; AT E181584 T1 19990715; DE 69510399 D1 19990729; DE 69510399 T2 19991230; FR 2717845 A1 19950929; FR 2717845 B1 19960515

DOCDB simple family (application)

EP 95440010 A 19950323; AT 95440010 T 19950323; DE 69510399 T 19950323; FR 9405134 A 19940425