

Title (en)

Insulated double glazing with a motor driven screen between the two panes.

Title (de)

Isolierverglasung mit einem durch einen Motor angetriebenen, zwischen den beiden Glasscheiben eingebauten Vorhang.

Title (fr)

Panneau isolant à double vitrage avec dispositif motorisé d'écran interposé entre les deux parois transparentes.

Publication

**EP 0424294 A1 19910424 (FR)**

Application

**EP 90420454 A 19901019**

Priority

FR 8914092 A 19891020

Abstract (en)

[origin: JPH03156090A] PURPOSE: To establish easy replaceability of a working mechanism, etc., at occurrence of any problem by installing a takeup drum in the upper part of a space bounded by two glass plates, attaching a working mechanism to the takeup drum removably, and supporting it by a stopper. CONSTITUTION: A cradle element 5 is installed in the upper part of a space of an insulating panel consisting of glass plates 1 and 2 for window, and in the cradle element 5, a takeup drum 6 is inserted, where to a screen 7 such as a blind threaded through a vertical long hole 5a located down aslant is fixed. A motor 10 and speed reducer 11 are removably mounted on the drum 6 through an actuating member 12 attached to the drum, and a stopper 13, ring-shaped seal 14, and guide ring 15 are installed at the opening 3b of a sash 3 so that actuating mechanisms 10 and 11 are supported and air-tightness is held. When any problem arises, the stopper 13 and a key 19 are taken out together with a bush 18 and a packing box 17 so that the actuating mechanisms 10 and 11 are made replaceable.

Abstract (fr)

Dans l'espace intermédiaire défini entre les glaces (1, 2) du panneau est monté un tambour (6) pour la manoeuvre verticale d'un écran, le mécanisme (10) pour l'actionnement de ce tambour étant engagé de manière démontable dans ce dernier en étant supporté par un bouchon (13) qui opère une obturation étanche.

IPC 1-7

**E06B 3/66**; **E06B 9/24**

IPC 8 full level

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CPC (source: EP US)

**E06B 3/6722** (2013.01 - EP US); **E06B 9/24** (2013.01 - EP US); **E06B 9/264** (2013.01 - EP); **E06B 2009/2643** (2013.01 - EP)

Citation (search report)

- [A] EP 0154218 A2 19850911 - KUNZ KURT
- [A] DE 2314013 A1 19731018 - LUNDBERG THORSTEN
- [A] FR 2623847 A1 19890602 - NERGECO SA [FR]
- [A] US 4096903 A 19780627 - RINGLE III JOHN
- [A] US 2631339 A 19530317 - PRATT RAYMOND C

Cited by

US5638648A; KR100716378B1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU NL SE

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**EP 0424294 A1 19910424**; **EP 0424294 B1 19921216**; AT E83531 T1 19930115; DE 69000602 D1 19930128; DE 69000602 T2 19930715; DK 0424294 T3 19930215; ES 2036103 T3 19930501; FR 2653487 A1 19910426; FR 2653487 B1 19920117; GR 3006680 T3 19930630; JP H03156090 A 19910704; US 5048245 A 19910917

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