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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

(54) Title: INTEGRATED INTERIOR FABRIC BLIND

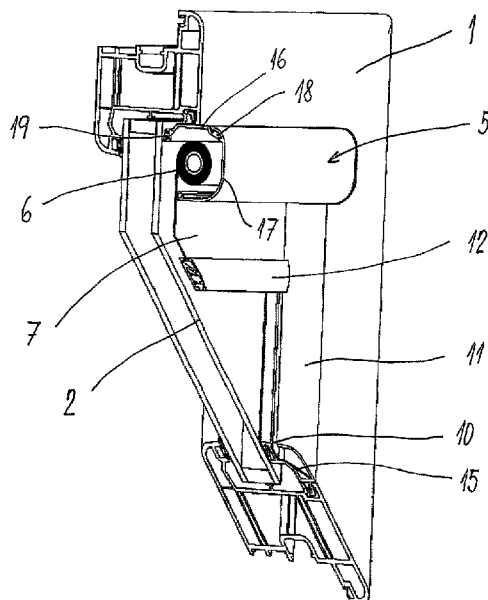


Fig. 3

(57) Abstract: An integrated interior fabric blind, particularly for plastic and aluminum windows, consisting of a blind cartridge, in which a cylinder carrying the fabric and a control mechanism are placed and of a pair of glazing bars for guiding the fabric along the window, wherein it consists of a blind cartridge (5) provided with a glazing sealing and a securing spring (4), placed in the groove (3) designed for the upper glazing bar and of a pair of vertical side glazing bars (11) provided with a groove (10) facing opposite each other for guiding the fabric (7) along the window.

Integrated interior fabric blind

Field of invention

The technical solution concerns an integrated interior fabric blind, particularly for plastic and aluminum windows, consisting of a blind cartridge, in which a cylinder carrying the fabric is placed, provided with a control mechanism and a pair of glazing bars for guiding the fabric along the window.

State of art

Nowadays the interior fabric blinds are mounted additionally onto the windows in such manner that the blind case is attached to the upper side of the window frame and the guiding bars for the fabric are mounted to the outer surface of the window frame under the blind case or the guiding bars are glued to the glass. This art appears to be disadvantageous as it affects the look of the window to a large extent and it is disadvantageous also from the reason that it usually reduces the part of the glassed surfaces. This method is disadvantageous also for the reason that during the mounting either drilling of holes into the window profiles or its staining with glues occurs.

Disclosure of the invention

The goal of the technical solution is to remove the existing drawbacks of the state of the art as much as possible. This is achieved to a large extent with an integrated interior textile blind, particularly for plastic and aluminum windows, consisting of a blind cartridge, in which a cylinder carrying the fabric is placed, provided with a control mechanism and of glazing bars for guiding the fabric along the window, according to this technical solution, whose nature consists particularly in the fact that it consists of a blind cartridge provided with a glazing sealing and a securing spring, placed in the groove designed for the upper glazing bar and of a pair of vertical side glazing bars provided

with a groove facing opposite each other for guiding the fabric along the window.

It is advantageous if the groove for guiding the fabric is adapted into vertical side glazing bars, which are provided with a reinforcing profile.

Because of various dimensions of the profiles of the window frames and thickness of the glass it seems preferred that the blind cartridge consists of two parts and that is the support part which is inserted using the spring into the groove of the window sash and is provided with a dovetail for joining with the cover part of the blind cartridge, wherein the opposite side of the support part is provided with a sealing for pressing and securing the glass. This support part will be made in different sizes according to the width of the window sash and thickness of the glass. The cover part of the blind cartridge will serve just to cover the cylinder carrying the fabric.

Clarification of the drawings

The technical solution will be explained using the drawings in which Fig. 1 is a view of the window sash provided with an integrated interior fabric blind, Fig. 2 is a cross section of the window frame in its upper part with the placed blind cartridge with the cylinder with the wound fabric, Fig. 3 is an axonometric section of the lateral side of the window frame with the glazing bar provided with a groove with a reinforcing profile for guiding the fabric and Fig. 4 is a detail of the cross section of the glazing bar.

Example of a realization of the technical solution

As apparent in Fig. 1 and Fig. 2 in cross section conducted in the upper part of the window sash 1 a blind cartridge 5 fixed with the spring 4 is placed in the groove 3 instead of the known glazing bar of the glass plate 2. In the blind cartridge 5 a cylinder 6 carrying the fabric 7 is placed. The blind cartridge 5 is lengthwise reinforced with ribs 8. The fabric 7 is being unwound off the cylinder 6 around the lower rib 8 into the grooves 10 made in vertical side glazing bars 11. The fabric 7, whose end is attached at the end loading profile 12, contacts the end of the lower pressure frame 13.

The groove 10 for guiding the fabric is adapted in the vertical side glazing bars 11

provided preferably with a reinforcing profile 15, according Fig. 3 and 4. Because of various dimensions of the profiles of the window frame and thickness of the glass it is appropriate for the blind cartridge 5 to be consisting of two parts and that is the support part 16, which is inserted using the spring 4 into the groove 3 of the window sash and is provided with a dovetail 18 for joining with the cover part 17 of the blind cartridge 5, wherein the opposite side of the support part 16 is provided with a sealing 19 for pressing and securing the glass plate 2. This support part 16 will be made in different sizes according the width of the window sash and thickness of the glass. The cover part 17 of the blind cartridge 5 will be made in one size and will serve just to cover the cylinder 6 carrying the fabric 7.

The execution of the cylinder 6 with the fabric 7 and its control during rising and lowering the fabric 7 uses common available solutions. By rotating the cylinder 6 using a mechanism (not shown) the fabric 7 is unwound using a string 14 or chain, which may be attached to the rotating cylinder 6 or to the end loading profile 12 of the fabric 7.

Industrial applicability

The technical solution can be used for shielding all types of windows, particularly plastic and aluminum, for French windows and for shielding winter gardens as well.

Claims

1. An integrated interior fabric blind, particularly for plastic and aluminum windows, consisting of a blind cartridge, in which a cylinder carrying the fabric and a control mechanism are placed and of a pair of glazing bars for guiding the fabric along the window, characterized in that it consists of a blind cartridge (5) provided with a glazing sealing and a securing spring (4), placed in the groove (3) designed for the upper glazing bar and of a pair of vertical side glazing bars (11) provided with a groove (10) facing opposite each other for guiding the fabric (7) along the window.
2. An integrated interior fabric blind according to claim 1, characterized in that the groove (10) for guiding the fabric (7) is adapted into vertical side glazing bars (11), which are provided with a reinforcing profile (15).
3. An integrated interior fabric blind according to claim 1, characterized in that the blind cartridge (5) consists of two parts and that is the support part (16) which is inserted using the spring (4) into the groove (3) of the window sash (1) and is provided with a dovetail (18) for joining with the cover part (17) of the blind cartridge (5), wherein the opposite side of the support part (16) is provided with a sealing (19) for pressing and securing the glass (2) and of a cover part (17) to cover the cylinder (6) carrying the fabric (7).

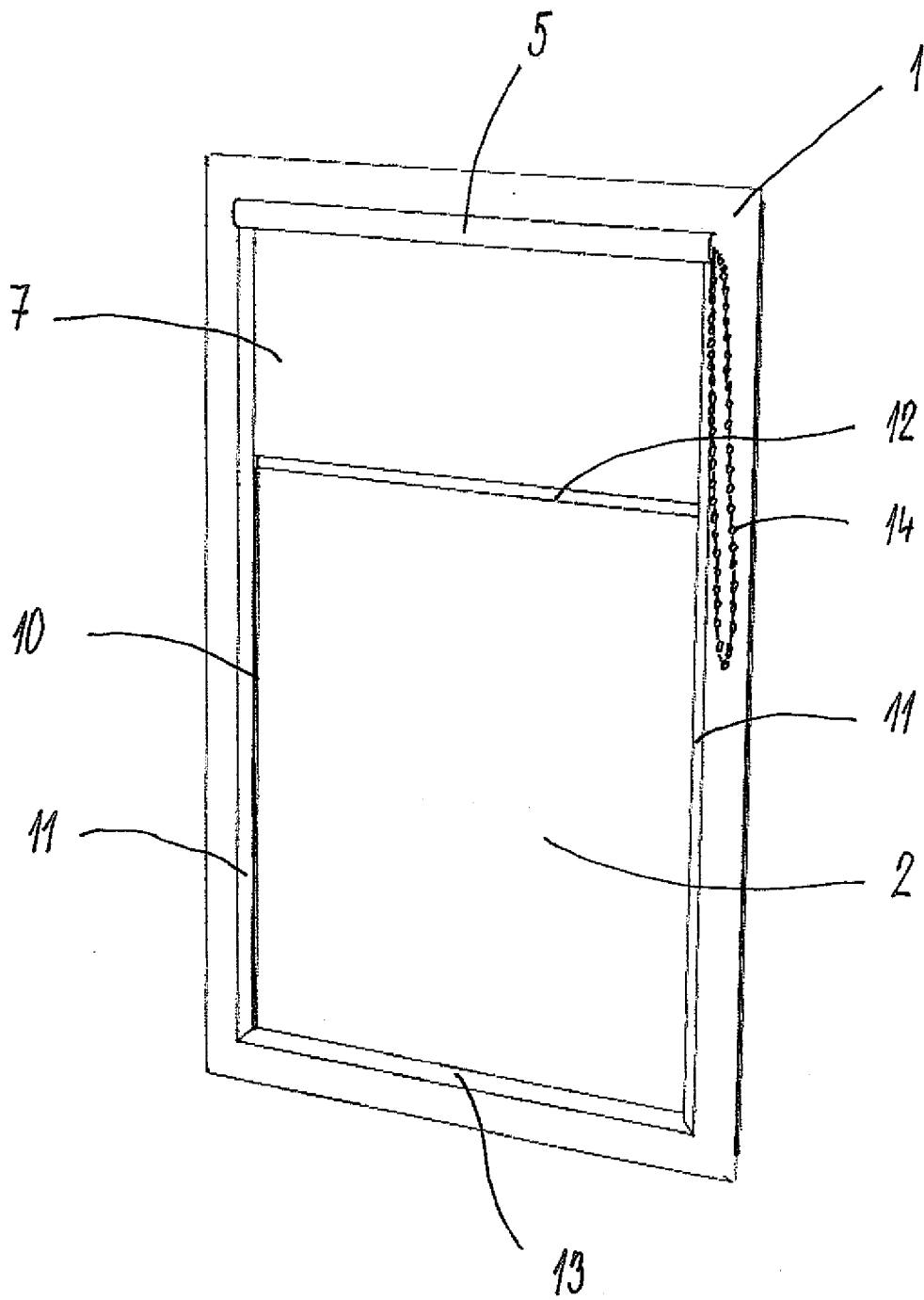
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Fig. 1

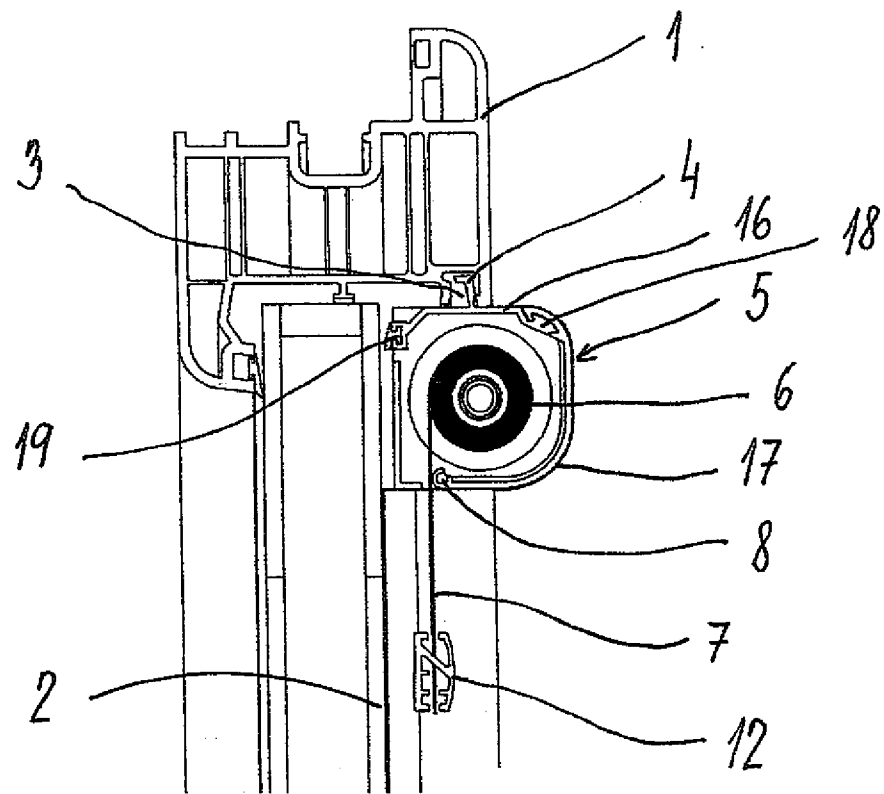


Fig. 2

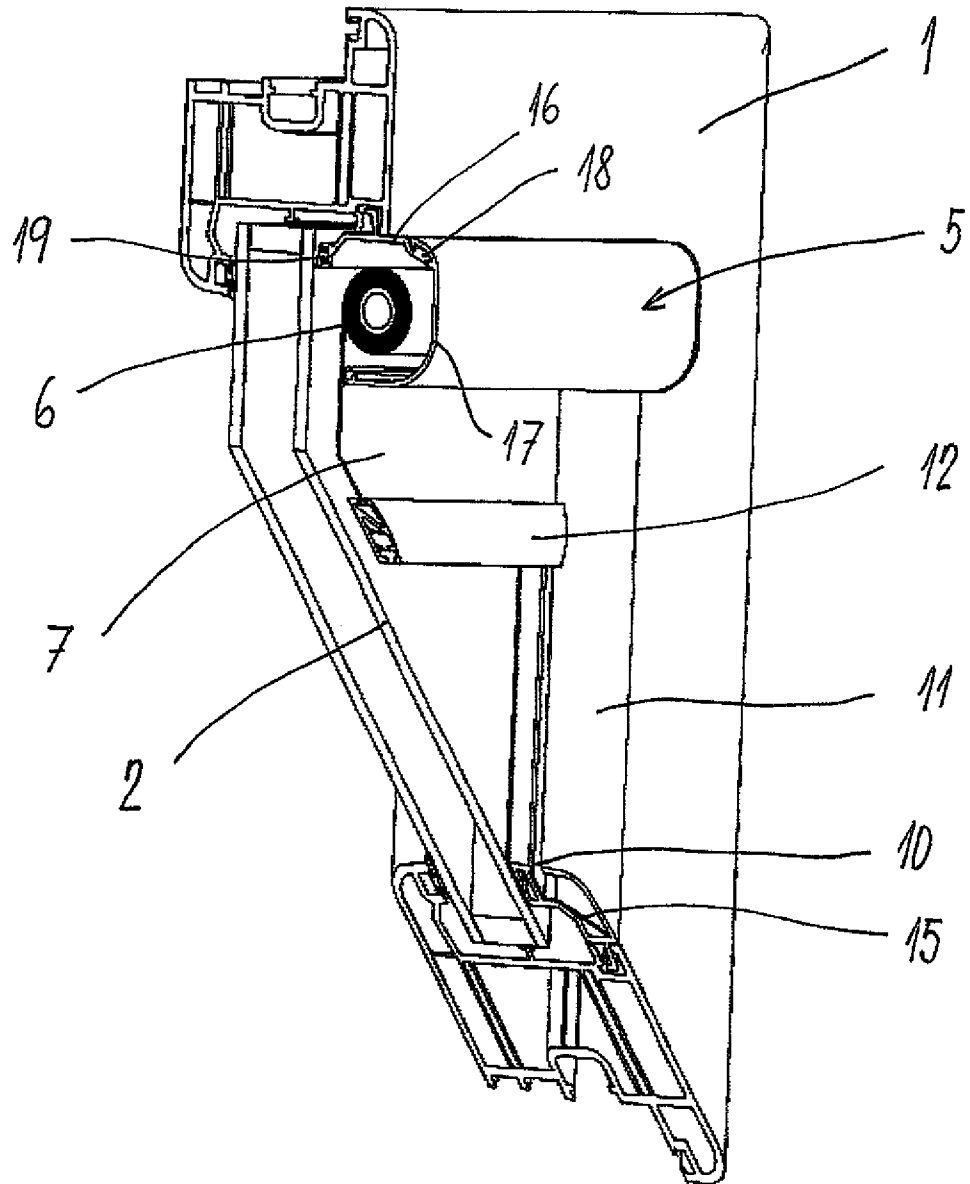


Fig. 3

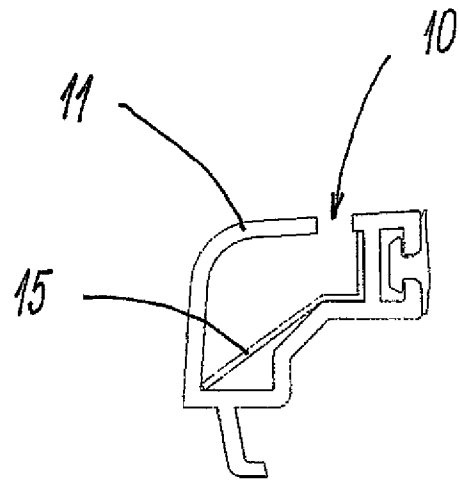


Fig. 4

INTERNATIONAL SEARCH REPORT

International application No
PCT/CZ2016/000036

A. CLASSIFICATION OF SUBJECT MATTER
INV. E06B9/24 E06B3/58 E06B9/42 E06B3/62 E06B9/52
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
E06B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 203 04 015 U1 (WRIESSENEGGER ALFRED [AT]) 8 May 2003 (2003-05-08)	1
A	figures 1-4	2,3
Y	DE 20 2007 008114 U1 (GEALAN FENSTER SYSTEME GMBH [DE])	1
A	20 September 2007 (2007-09-20) figures 1,2	2,3



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 20304015	U1	08-05-2003	NONE	

DE 202007008114	U1	20-09-2007	NONE	
