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(54) **Finishing profile**

(57) Finishing profile (11-12) to finish a frame of a window, door or similar, that is composed of composite profiles (1-2), with an inner shell (3-4) and an outer shell

(5-6) of metal that are connected together by one or more insulating courses (9-10), characterised in that the finishing profile (11-12) is made from an electrically conductive plastic.

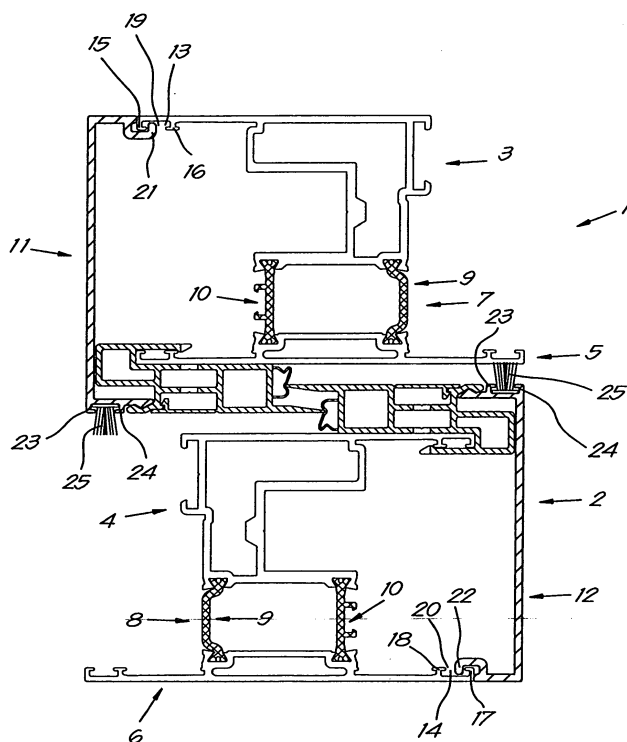


Fig. 1

Description

[0001] The present invention relates to a finishing profile.

[0002] More specifically the invention is intended to finish an element or frame of a window, door or similar.

[0003] Such a frame consists of composite profiles with a metal outer and inner profile made from aluminium or similar.

[0004] It has long been known to connect the outer and inner profile through a thermal bridge in the form of one or more insulating courses.

[0005] In order to screen off the transition between the sliding panels, it is known that a finishing profile can be applied in sliding windows or doors or similar.

[0006] In order not to affect the aesthetic character of the window or door, the finishing, outer and inner profile must have the same appearance.

[0007] The known finishing profiles are thus made from aluminium so that the same powder paint can be used for the outer, inner and finishing profiles.

[0008] A disadvantage is that the aluminium finishing profile detrimentally affects the thermal insulation value of the window or door.

[0009] The purpose of the present invention is to provide one or more solutions to the aforementioned disadvantages and/or other disadvantages by providing a finishing profile to finish a frame of a window, door or similar, that is composed of composite profiles with an outer and inner shell of metal that are connected together by one or more insulating courses, whereby the finishing profile is made from an electrically conductive plastic.

[0010] The present invention also concerns a sliding door or sliding window or similar, consisting of one or panels that can be slid with respect to one another and which comprise a frame that is composed of composite profiles with an inner and outer shell connected by one or more insulating courses, whereby these parts partly overlap one another along one of the aforementioned profiles in a closed state, and whereby at least one of these last profiles is finished on the overlapping part of the panels with such a finishing profile.

[0011] An advantage is that the thermal insulation value of the sliding window or sliding door is greatly improved thanks to the plastic finishing profile that has a greater insulation value than the known aluminium finishing profiles, while preserving the aesthetic value.

[0012] An additional advantage is that the finishing profile can be painted in a colour according to choice, all so that the outer, inner and finishing profile have the same appearance.

[0013] In a preferred embodiment the finishing profile is manufactured as an extrusion profile.

[0014] With the intention of better showing the characteristics of the invention, a preferred embodiment is described hereinafter by way of an example, without any limiting nature, of a finishing profile and a sliding door or sliding window equipped with such a finishing profile ac-

cording to the invention, with reference to the accompanying drawings, wherein:

figure 1 schematically shows a cross-section of a sliding door or sliding window in the closed state around the overlapping parts.

[0015] Figure 1 schematically shows a cross-section of a sliding door or sliding window consisting of two sliding panels that each contain a composite profile 1-2.

[0016] Each of these composite profiles 1-2 primarily consists of an inner profile 3-4 and an outer profile 5-6 that are made of a metal such as aluminium.

[0017] The inner profiles 3-4 are connected by their respective outer profiles 5-6 through their thermal bridges, respectively 7-8, which in the embodiment shown is formed by two plastic insulating courses 9-10.

[0018] The present invention provides the presence of a finishing profile 11 that is made from an electrically conductive plastic.

[0019] Figure 1 provides two such finishing profiles 11-12, respectively for each of the composite profiles 1-2.

[0020] Preferably the first finishing profile 11 is mounted such that it bridges over the inner and outer shell 3-5 of the first composite profile 1 at the overlapping part of the sliding panels.

[0021] In the most preferred embodiment, the second finishing profile 12 is likewise mounted such that it bridges over the inner and outer shell 4-6 of the second composite profile 2.

[0022] To this end the outer and inner shells 3-6 of the profiles 1-2 have detailing 13-14 that enables the finishing profile 11-12 to be hooked in.

[0023] To this end, in the embodiment of figure 1 there are two ribs 15-16, 17-18 on the inside of each outer shell 3-6 that define a groove 19-20 in which the finishing profile 11-12 can be mounted with an edge 21-22.

[0024] In the variant shown, the finishing profile 11-12 is clicked fast to the other edge.

[0025] In a practical embodiment of the invention, the finishing profile 11-12 further has two ribs 23-24 in order to be able to provide a draught excluder 25 or similar.

[0026] In a practical embodiment, the aforementioned finishing profiles 11-12 are extrusion profiles.

[0027] In the most practical variant of the invention, these finishing profiles 11-12 are made of polyamide in which electrically conductive additives have been incorporated, all such that the finishing profile 11-12 is suitable for powder coating.

[0028] It is also possible to manufacture a finishing profile 11-12 as an injection moulded part.

[0029] Although figure 1 shows two sliding panels that partly overlap in the closed state, the finishing profile is also suitable for use in a frame of a sliding window or sliding door with a fixed middle section and one panel that can slide with respect to this middle section.

[0030] The present invention is by no means limited to the embodiment described as an example and shown in

the drawings, but a finishing profile according to the invention can be realised in all kinds of variants, without departing from the scope of the invention.

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Claims

1. Finishing profile (11-12) to finish a frame of a window, door or similar, that is composed of composite profiles (1-2), with an inner shell (3-4) and an outer shell (5-6) of metal that are connected together by one or more insulating courses (9-10), **characterised in that** the finishing profile (11-12) is made from an electrically conductive plastic. 10
2. Finishing profile (11-12) according to any one of the foregoing claims, **characterised in that** the finishing profile (11-12) can be powder coated. 15
3. Finishing profile (11-12) according to any one of the foregoing claims, **characterised in that** the finishing profile (11-12) is an extrusion profile. 20
4. Finishing profile (11-12) according to any one of the foregoing claims, **characterised in that** the finishing profile (11-12) contains polyamide. 25
5. Sliding door or sliding window consisting of one or more panels that can be slid with respect to one another and which contain a frame that consists of composite profiles (1-2) with an outer shell (5-6) and an inner shell (3-4) connected by one or more insulating courses (9-10), whereby these parts partly overlap one another along one of the aforementioned profiles (1-2) in a closed state, **characterised in that** at least one of these last profiles (1-2) is finished with a finishing profile (11-12) according to any one of the foregoing claims on the overlapping part of the panels. 30 35
6. Sliding door or sliding window according to claim 5, **characterised in that** the finishing profile (11-12) is mounted so that it bridges over the outer and inner shell (3-6) of the profile (1-2) at the overlapping part of the panels. 40 45
7. Sliding door or sliding window according to claim 5 of 6, **characterised in that** the inner and outer shell (3-6) and the finishing profile (11-12) have detailing that enables the finishing profile (11-12) to be mounted on the outer and inner shell (3-6). 50
8. Sliding door or sliding window according to any one of the claims 5 tot 7, **characterised in that** the finishing profile (11-12) is fitted with a draught excluder (25). 55

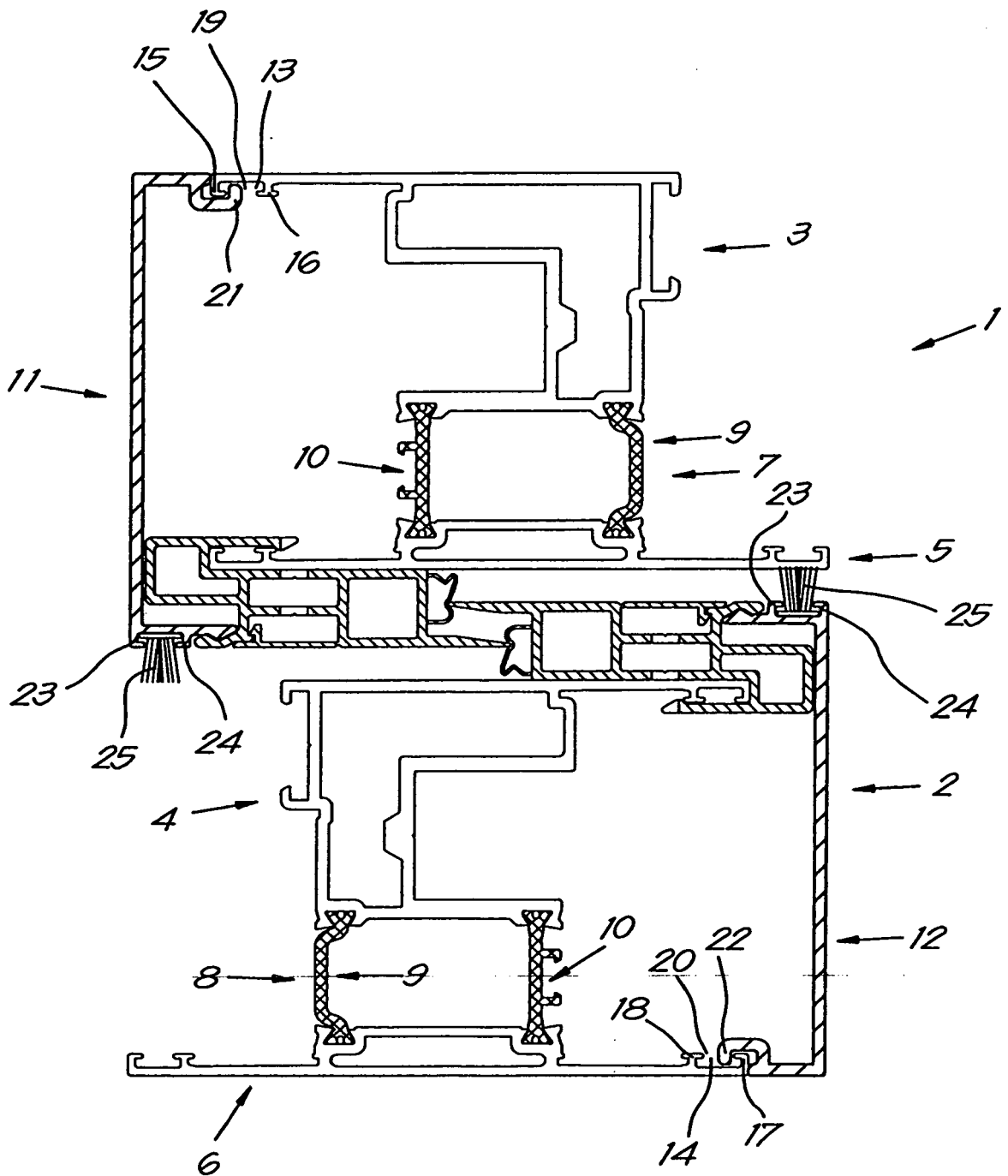


Fig. 1



EUROPEAN SEARCH REPORT

Application Number
EP 11 00 3115

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 43 23 480 A1 (ENSINGER WILFRIED [DE]) 19 January 1995 (1995-01-19)	1-4	INV. E06B3/263 E06B3/30 E06B3/46
Y	* figure 1 * * column 1, line 3 - line 63 * * column 2, line 23 - column 3, line 22 * * column 4, line 14 - line 24 *	5-8	
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			TECHNICAL FIELDS SEARCHED (IPC)
			E06B
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 27 July 2011	Examiner Blancquaert, Katleen
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 11 00 3115

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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