



(11) **EP 4 343 101 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
27.03.2024 Bulletin 2024/13

(51) International Patent Classification (IPC):
E06B 7/14 (2006.01)

(21) Application number: **23020157.6**

(52) Cooperative Patent Classification (CPC):
E06B 7/14; E06B 2007/145

(22) Date of filing: **27.03.2023**

(84) Designated Contracting States:
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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA
Designated Validation States:
KH MA MD TN

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463 43 Prose? pod Je?t?dem (CZ)

(30) Priority: **31.08.2022 CZ 20224019**

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(54) **TWO-COMPONENT PROFILE FOR FACADE PROFILES BASED ON NATURAL MATERIALS**

(57) The aim of the technical solution according to this technical solution is to protect wood or paperbased facade beams from moisture by using a moisture-resistant material, e.g. acetylated wood in the place of condensation chambers.

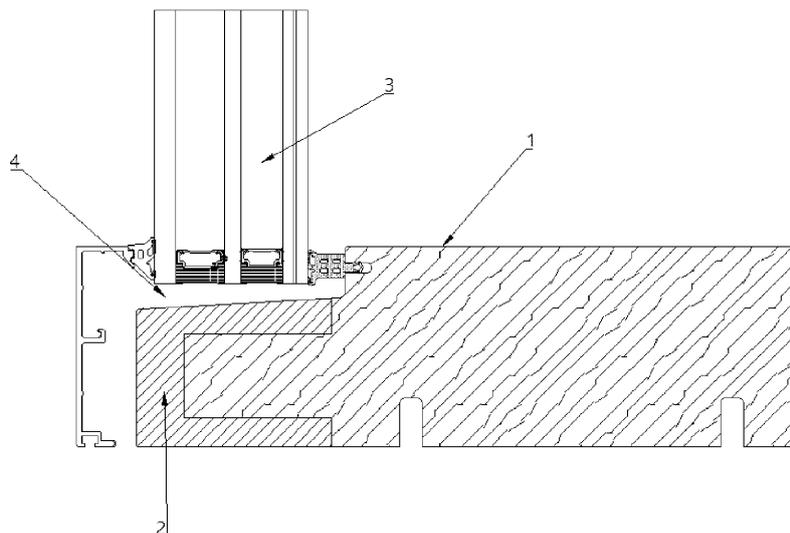


Fig. 2

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Description

Field of technology

[0001] The technical solution refers to the structural arrangement of slatted and structural prefabricated block (element) glazed or partially glazed facades for construction purposes. 5

Current state of the art 10

[0002] Currently, in prefabricated glazed building block facades, an aluminum profile with an interrupted thermal bridge is used as a static load-bearing part, which also includes grooves for seals, glass carriers, etc. The disadvantage of this solution is the high heat transfer coefficient U and the ecological impact on the environment in aluminum mining and processing. 15

The essence of the technical solution 20

[0003] The aim of the technical solution according to this technical solution is to protect wood or paper-based facade beams from moisture by using moisture-resistant material, e.g. acetylated wood in the place of condensation chambers. 25

Explanation of the drawings

[0004] The technical solution will be explained in more detail with the help of a drawing, where Fig. 1 and 2 show a solution using a beam based on wood or paper. 30

Example of technical solution implementation 35

[0005] A wood or paper-based static load-bearing profile comprising a wood-based load-bearing part 1 and a moisture-resistant part 2 at a drainage and condensation space 4 below a transparent or opaque infill 3. The load-bearing part 1 and the resistant part 2 are joined by lamination, glueing or other method to form a compact whole. 40

Industrial applicability

[0006] This technical solution can be used primarily in the construction industry in the production of glass facades. 45

Claims 50

1. A two-component profile for facade profiles based on natural materials, **characterized in that** in the space (4) of the condensation and drainage cavity or part thereof, a moisture-resistant part (2) is attached to the part of the load-bearing profile (1) based on natural materials. 55

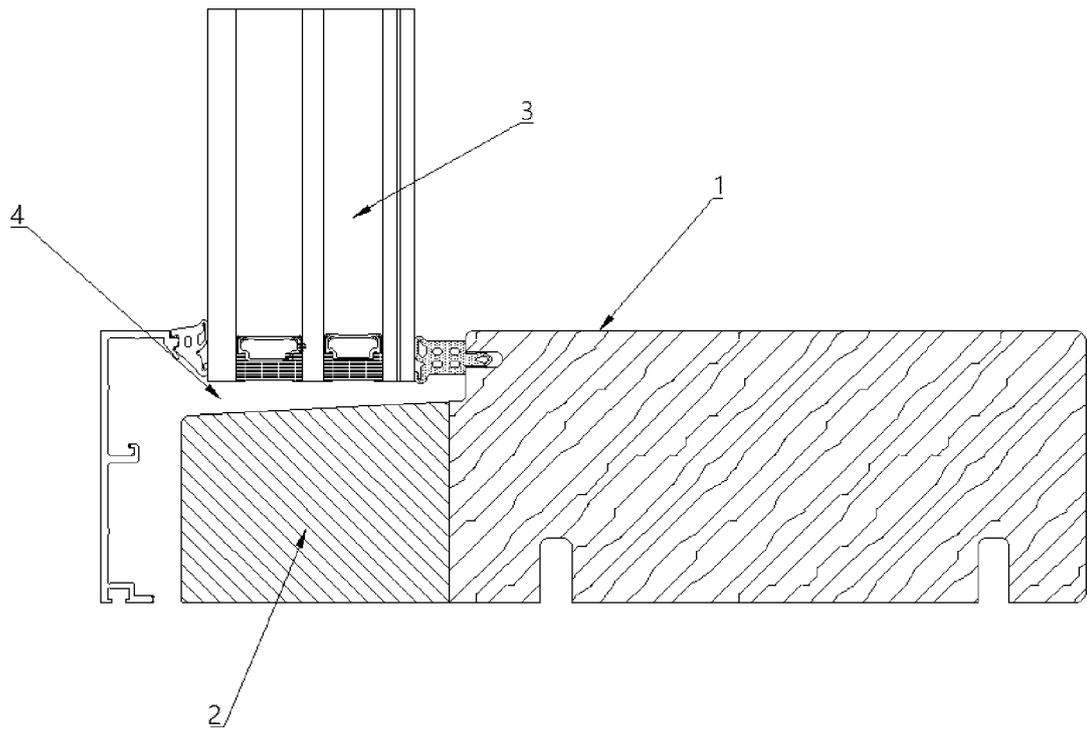


Fig. 1

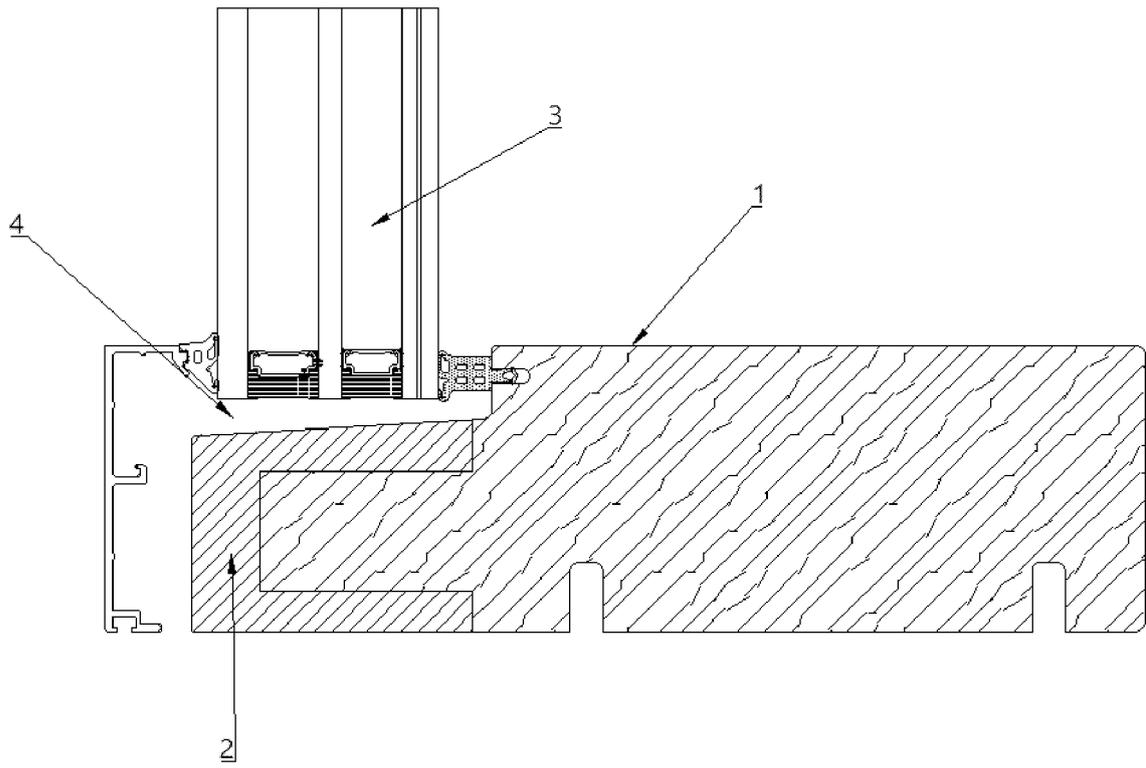


Fig. 2



EUROPEAN SEARCH REPORT

Application Number
EP 23 02 0157

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DOCUMENTS CONSIDERED TO BE RELEVANT

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| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (IPC) |
|----------|--|-------------------|---|
| X | IT 1 397 966 B1 (DORAL SISTEMI S A S DI SICA AMODIO & C [IT]; SICA [IT]) 4 February 2013 (2013-02-04) * abstract; figure 1 * | 1 | INV. E06B7/14 |
| X | DE 100 58 639 A1 (KARL MOLL GMBH [DE]) 20 June 2002 (2002-06-20) * figure 1 * | 1 | |
| X | CZ 282 196 B6 (SOLVAY ALKALI GMBH [DE]) 14 May 1997 (1997-05-14) * figure 1 * | 1 | |
| X | DE 101 25 902 A1 (JOSKO FENSTER UND TUEREN GMBH [AT]) 31 January 2002 (2002-01-31) * figure 1 * | 1 | |
| | | | TECHNICAL FIELDS SEARCHED (IPC) |
| | | | E06B |

The present search report has been drawn up for all claims

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| Place of search Munich | Date of completion of the search 15 February 2024 | Examiner Wehland, Florian |
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EPO FORM 1503 03:82 (P04C01)

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

EP 23 02 0157

5 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 The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

15-02-2024

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------|----------------------------------|
| IT 1397966 | B1 | 04-02-2013 | NONE |
| ----- | | | |
| DE 10058639 | A1 | 20-06-2002 | NONE |
| ----- | | | |
| CZ 282196 | B6 | 14-05-1997 | AT E165136 T1 15-05-1998 |
| | | | CZ 282196 B6 14-05-1997 |
| | | | DE 4410075 A1 05-10-1995 |
| | | | EP 0674081 A2 27-09-1995 |
| | | | PL 307607 A1 02-10-1995 |
| ----- | | | |
| DE 10125902 | A1 | 31-01-2002 | AT 409400 B 25-07-2002 |
| | | | DE 10125902 A1 31-01-2002 |
| ----- | | | |