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AT BE CH DE DK ES FR GB IT LI NL SE(71) Applicant: **SIKA B.V.**
Sterrebaan 7
NL-3606 FA Maarssen(NL)(72) Inventor: **Smit, Marcellinus Simon Hendrikus**
Maria
Groen van Prinsterenlaan 6
NL-3818 JP Amersfoort(NL)(74) Representative: **Lips, Hendrik Jan George, Ir.**
HAAGSCH OCTROOIBUREAU Breitnerlaan
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NL-2596 HG Den Haag(NL)(54) **Method for mounting a facade panel on a facade construction.**

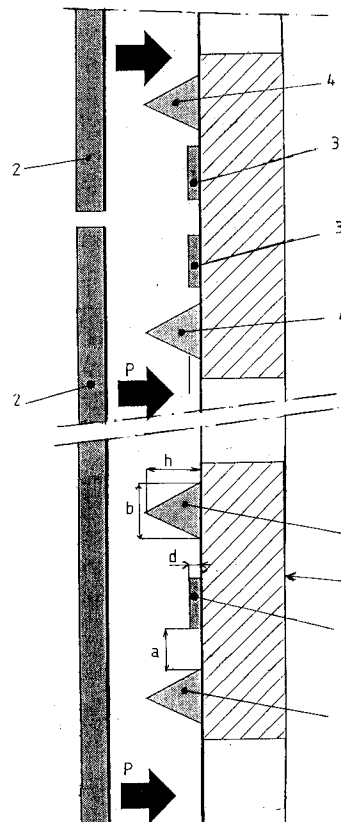
(57) Method for mounting a facade panel (2) on a facade construction (1), which method comprises the following steps:

1) applying a strip of double-sided adhesive tape (3) on a facade panel (2), or on the facade construction (1), there where these parts (1, 2) are to be connected with each other;

2) applying at least one strip of viscous, tenacious adhesive (4), parallel to the adhesive tape (3) and at a small distance therefrom, in a thickness (h) which is greater than the thickness (d) of the adhesive tape (3);

3) positioning the panel (2) close to the final position thereof, yet without the adhesive (4) applied on the one part (1, 2) being in contact with the other part (2, 1); and

4) pushing the panel (2) into place such that the double-sided adhesive tape (3) also comes into contact with the other part (1, 2).

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The invention relates to a method for mounting a facade panel on a facade construction.

Up to now it has been common practice to mount facade panels on facade constructions by means of screws or bolts. This means, that holes have to be made in the panels and that it must be provided for, that after mounting of the screws or bolts no rain water might pass inside along them.

Further one should make sure, that no corrosion can occur between the material of the screws or bolts and that of the facade panels and the screws or bolts as such should also be manufactured from corrosion-resistant material.

All this involves considerable costs, both regarding the materials to be applied and the time required for making the holes in the panels and for securing the panels on the facade construction.

The invention seeks to remove these difficulties and to that end it provides for a method which comprises the following steps:

- 1) applying a strip of double-sided adhesive tape on a facade panel, or on the facade construction, there where these parts are to be connected to each other;
- 2) applying at least one strip of viscous, tenaceous adhesive, parallel to the adhesive tape and at some distance therefrom, in a thickness which is greater than the thickness of the adhesive tape;
- 3) positioning the panel close to the final position thereof, yet without the adhesive applied on the one part being in contact with the other part; and
- 4) pushing the panel into place such that the double-sided adhesive tape also comes into contact with the other part.

The double-sided adhesive tape serves several purposes. First, it is achieved, that the layer of adhesive, which is between a panel and the facade construction, has a certain optimum thickness so that an elastic connection between the panel and the facade construction is obtained. Further, the double-sided adhesive also provides for, that immediately after having pressed the panel against the facade construction a connection between both parts is obtained, so that these will no longer shift in relation to each other and the adhesive has the time to cure.

In particular it will be provided for, that the double-sided adhesive tape has a thickness between 2 and 4 mm and that the adhesive is applied in the shape of an isocetes triangle with a basic width of 6 to 12 mm on the part concerned and with a height of 10 to 20 mm.

According to a further development of the invention, the distance between the double-sided adhesive tape and the strip of adhesive can be between 8 and 15 mm, measured before the facade

panel is pressed against the facade construction.

The applied distance will naturally depend on the dimensions of the parts themselves and on the amount of adhesive which is applied on the part concerned.

The invention is further explained by means of an embodiment, illustrated in the drawing, that diagrammatically shows a section across a part of a facade construction and of two facade panels, that are to be mounted on the construction concerned.

In the drawing, the facade construction itself is indicated with 1 and both facade panels with 2.

The strips 3 of double-sided adhesive tape are applied on the facade construction and next to these strips 3 the strips of adhesive 4.

As it appears from the upper part of the drawing a strip of double-sided adhesive tape 3 will be the closest to the edge of a panel 2. In the bottom part of the drawing it is indicated, that when a facade panel 2 extends over part of the facade construction 1, a strip of adhesive 4 can be applied at both sides of a strip of double-sided adhesive tape 3.

The thickness d of the strip of double-sided adhesive tape 3 will be between 2 and 4 mm and in particular be 3 mm. The strip of adhesive will in general have the shape of an isocetes triangle, with the width b of the basis being 6 to 12 mm and the height h 10 to 20 mm. The distance a between the strip of double-sided adhesive tape 3 and the strip of adhesive 4 will be between 8 and 15 mm.

In the drawing, the situation is illustrated in which a panel 2 is near the final position thereof on the facade construction 1. Immediately after that the panel 2 will be pushed towards the facade construction 1 in the direction of the arrows P , at which the facade panel 2 will come to lie against the strip of double-sided adhesive tape 3 and the strips of adhesive 4 are pressed flat between the parts 1 and 2.

It will be obvious, that only one possible embodiment of the invention is illustrated in the drawing and described above and that many changes can be made without falling beyond the inventive concept.

Claims

1. Method for mounting a facade panel (2) on a facade construction (1), characterized in that the method comprises the following steps:

- 1) applying a strip of double-sided adhesive tape (3) on a facade panel (2), or on the facade construction (1), there where these parts (1, 2) are to be connected to each other;

- 2) applying at least one strip of viscous, tenaceous adhesive (4), parallel to the adhe-

sive tape and at a small distance therefrom, in a thickness (h) which is greater than the thickness (d) of the adhesive tape;

3) positioning the panel (2) close to the final position thereof, yet without the adhesive (4) applied on the one part (1, 2) being in contact with the other part (2, 1); and
4) pushing the panel (2) into place such that the double-sided adhesive tape (3) also comes into contact with the other part (1, 2).

2. Method according to claim 1, characterized in that the double-sided adhesive tape (3) has a thickness (d) between 2 and 4 mm and that the adhesive (4) is applied in the shape of an isoceles triangle with on the part concerned (1, 2) a basic width (b) of 6 to 12 mm and with a height (h) of 10 to 20 mm.
3. Method according to claim 1 or 2, characterized in that the distance (a) between the double-sided adhesive tape (3) and the strip of adhesive (4) is between 8 and 15 mm, measured before pressing the facade panel (2) against the facade construction (1).
4. Facade consisting of a facade construction and panels mounted thereon and secured by applying the method according to one or more of the above-mentioned claims.

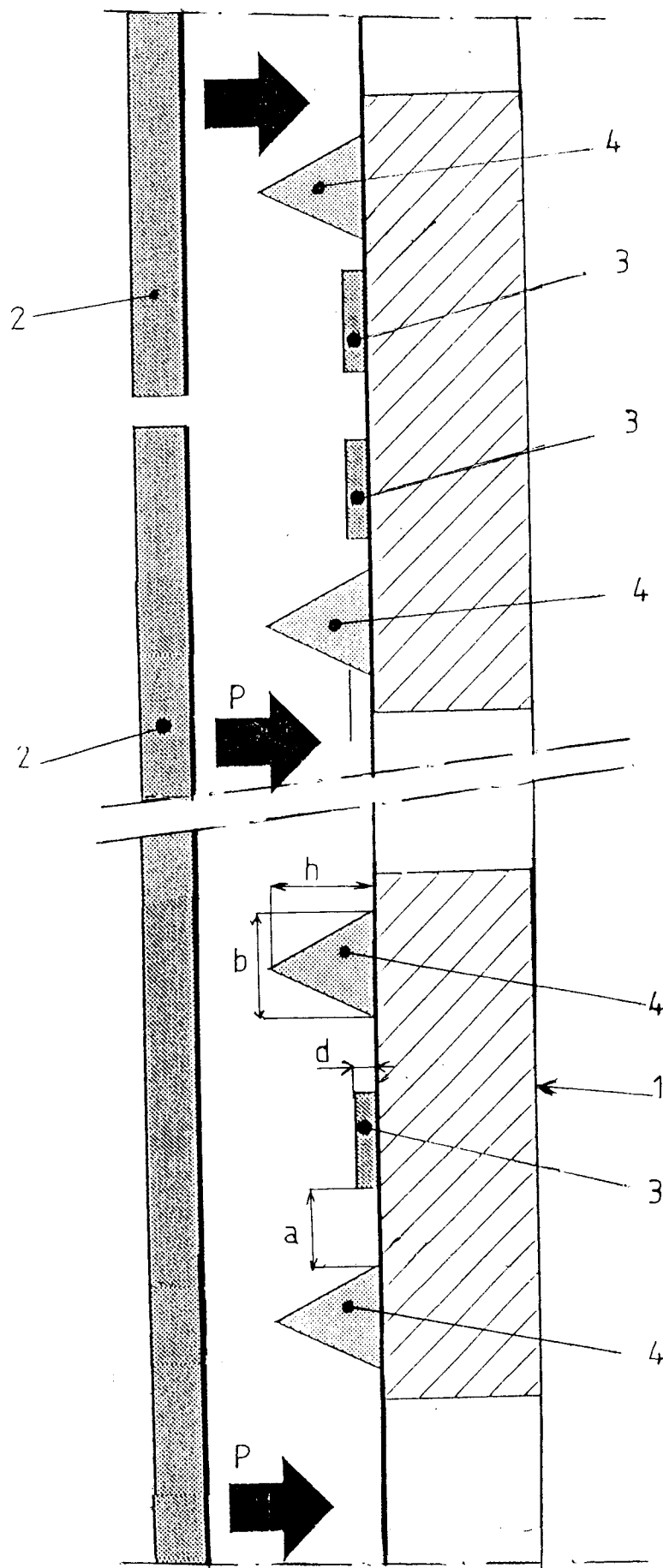
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EUROPEAN SEARCH REPORT

Application Number

EP 91 20 2467

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
A	DE-A-2 145 521 (NIX SEN) * page 5, line 17 - page 6, line 17 *** page 11, line 13 - page 12, line 30; figures 1-7B ** - - -	1,2,4	E 04 F 13/08
A	GB-A-1 101 382 (BOSTIK LTD.) * page 2, line 43 - line 56 *** page 2, line 63 - page 3, line 22 *** page 3, line 55 - line 63 ** - - -	1,4	
A	DE-A-2 029 772 (INTEREST-ANSTALT) * page 4, line 15 - page 6, line 6 *** page 6, line 17 - line 24; figures 1,2 ** - - - - -	1,2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			E 04 F
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 10 December 91	Examiner AYITER J.
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