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(54) **Fixing system of a skirting**

Fixiersystem für Sockel

Système de fixation d'une plinthe

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EP 2 327 847 B1

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Description

[0001] An object of the present invention is a skirting board fixing system, more particularly a floor skirting board fixing system.

[0002] From the description of the Polish Utility Model No. 63458 Y1 an overlap guard structure is known, having an assembly skirting, being placed under the surface layer, constituting a fixing element of a guard skirting, being immovably connected to this fixing element. The assembly skirting is fixed on the base by means of an adhesive.

[0003] The Polish Patent Description No. 200819 discloses a structure of a fixing system of a skirting which comprises at least one finish skirting and at least one assembly section. Between the arms of the assembly section a fixing element, more particularly a floor board is inserted. The assembly section is provided with a longitudinal protrusion to be found above its upper arm, and a gap which comes into being between that protrusion and the upper arm is used for fixing the finish skirting.

[0004] The structure of the above presented system allows to arrange a skirting without the necessity to fix it immovably on a base or on a wall by means of fixing elements. Because of the structure of the assembly section, it is required that each time the thickness of a fixing element has to be fitted, more particularly the thickness of a floor board has to be fitted to an opening of a gap between arms of a channel section.

[0005] German utility model No. DE -U-9301324 discloses a skirting board system used in a wall-floor finishing. The system comprises a skirting slat and a holder to which the skirting is separable connected. The holder is archway bent and comprises an arm to be located under the flooring and a back arm to be supported on a wall, wherein the back arm has a free end. The holder of the skirting board system is an elastic element.

[0006] The problem of the skirting board system according to the above mentioned German utility model lies in that, when mounted, said system does not provide stable and reliable clinging of the skirting slat of the system to the flooring independently of the thickness of the flooring.

[0007] The above problem is solved by providing a skirting board fixing system according to the present invention.

[0008] An object of the present invention is, therefore, a skirting board fixing system, being a wall finishing, more particularly the wall finish next to a floor. The system comprises a fixing element, the flat base wall of which is located under a panel, more particularly under the floor board, being separable connected to a skirting profile element.

[0009] The fixing element is an elastic element and is archway bent, wherein the free end of the arm of the joint element is clickway connected to the arm of the skirting profile element.

[0010] Advantageously, the fixing element is provided

with a reinforcing web and has a flattening on its side facing the wall.

[0011] In accordance with the present invention, the fixing element is provided with elastic inserts or with a level elastic element.

[0012] The base arm of the skirting profile element is provided with an upright resistance projection.

[0013] The solution in accordance with the present invention allows to arrange a skirting without the necessity of making openings in a floor or supporting base and in a wall, which would be required in case of application of any elements for joining the skirting to the floor or to the wall. Also, due to the elastic features of the fixing element, the fixing system according to the present invention is suitable for the use with floor boards or other floor coverings having various thicknesses.

[0014] Moreover, the click joint between the skirting profile element and the fixing element makes the assembly operations much easier.

[0015] The use of the elastic inserts increases stability and safeness of the click joint between the base arm of the profile element and an upper arm of the fixing element. The elastic inserts prevent dislocation of the joint as well as of the skirting profile element.

[0016] The object of the present invention is presented by way of embodiments with reference to the accompanying drawings in which:

Figure 1 shows schematically the fixing system of the skirting according to the present invention in a cross-section in its first embodiment;

Figure 2 shows the fixing system according to the present invention in its second embodiment;

Figure 3 shows the fixing system according to the present invention in its third embodiment;

Figure 4 shows the fixing system according to the present invention in its fourth embodiment;

Figure 5 shows the fixing system according to the present invention in its fifth embodiment;

Figure 5A is an end view of the fixing element of the fixing system of Figure 5;

Figure 6 shows the fixing system according to the present invention in its sixth embodiment;

Figure 6A is an end view of the fixing element of the fixing system of Figure 6;

Figure 7 shows the fixing system in accordance with the present invention in its seventh embodiment;

Figure 8 shows the fixing system in accordance with the present invention in its eighth embodiment;

Figure 8A is an end view of the fixing element of the fixing system of Figure 8 and

Figure 9 shows as an example the first assembly stage of the fixing system of the skirting according to the present invention.

[0017] As shown in Figure 1 of the drawing, the fixing system according to the present invention comprises a fixing element 1 made of an elastic material, advanta-

geously of metal or plastic and a skirting profile element 2, preferably made of a plastic material. This element consists of a covering arm 8, being upwardly oriented and resting on a wall, as well as of a base arm 7, resting on a floor covering. The base arm 7 shows an undercutting 12, constituting a part of the click joint, fixing the skirting profile element. The covering arm 8 of the skirting profile element 2 may have different shapes, depending on the scope of the application of the skirting and on its destination.

[0018] By way of example, the covering arm 8 may be provided on its inner side with channels for arranging different kinds of conductors, and its outer surface may be appropriately finished, according to the nature of the interior in which the skirting is arranged.

[0019] The fixing element 1 is provided with the lower flat base wall 4 which is down and upwardly deflected in an archway and which ends with an upper arm 5 having a triangular recess 11, constituting the click joint with the undercutting 12 in the base arm 7 of the profile element 2 of the skirting. In the above-presented structure, the shape of the fixing element 1 in the end view is nearing the U-shape.

[0020] The flat base wall 4 of the fixing element 1 is in this embodiment longer than the upper arm 5 and is located under the floor layer 3 in form of panels, wool flooring, glass or ceramic plates and the like, stiff floor coverings, being arranged on the base 6.

[0021] Figure 2 shows the fixing system for a skirting according to the present invention as shown in Figure 1, wherein the difference is that the fixing element 1 is provided with a strengthening web 9 which makes the structure of this element stiffer. Moreover, this web constitutes support for the end of the base arm 7 of the skirting profile element 2.

[0022] As it is shown in Figures 3 and 4, the fixing system according to the present invention is provided with the flat base wall 4 of the fixing element 1, being upwardly deflected at an angle and additionally, in the solution according to Figure 4, the fixing element 1 is provided with a flattening 10 on its side facing the wall. This flattening clings to the wall on which the skirting according to the present invention is arranged.

[0023] The covering arm 8 of the skirting profile element 2 as shown in the solution according to Figure 5 is provided with longitudinal edges 8a and 8b, made of a soft plastic. By means of these edges, the covering arm 8 is properly supported on the wall and on the floor 3. These edges enable the covering arm assembled on the interior wall to be properly fitted. In this embodiment the fixing element 1 is provided with a S-shaped elastic insert 13 which is fixed, as shown in Figure 5A, to the flat base wall 4 of the fixing element 1. In its unstressed state, the insert 13 protrudes beyond the upper arm 5. As shown in Figure 5, the free end of the insert 13 is in the stressed state supported on the upright side of the floor 3.

[0024] The fixing system according to the present invention shown in Figure 6 is provided with the covering

arm 8', having a box structure. It is also provided with longitudinal edges 8a, 8b, made of a soft plastic. A S-shaped elastic insert 14 is attached to the flattening 10 of the fixing element 1. The S-shaped elastic insert 14, is in its stressed state supported on the upright side of the floor 3. As shown in Figure 6a, the insert 14 protrudes in the unstressed state beyond the upper arm 5.

[0025] In the solution according to Figure 7, the base arm 7 of the profile element 2 is provided on its upper side with an upright longitudinal resistance protrusion 15, constituting a support for the end of the upper arm 5 of the fixing element 1. The protrusion 15 may constitute a continuous element or may be divided into many protrusions along the base arm 7.

[0026] In the embodiment of the present invention according to Figure 8, the fixing element 1 is provided with a level elastic element 16, protruding out of the flattening 10. Upon arrangement of the skirting, the elastic element 16 rests with its end on the upright side of the floor 3. Structure details of the fixing element 1 according to the embodiment of Figure 8 are shown in Figure 8a.

[0027] The manner of assembling the skirting by means of the fixing system according to the present invention will be described below. The assembly starts with fixing the element 1 on the base. If required by the circumstances, the fixing element 1 may be fixed on the base 6 by means of an adhesive. Afterwards, a floor board is arranged on the flat base wall 4 of the fixing element 1 and as shown in Figure 9, it is inserted under the arm 5 of this element. Due to its elasticity, the fixing element 1 enables the use of the fixing system in case of floor boards, having different thicknesses, as the arm 5 of this element may be deflected from the flat base wall 4 up to a certain distance. The base arm 7 is fixed on the surface of the upper floor board and it is so long inserted under the arm 5 of the fixing element 1 until the click joint has been secured. Characteristics of the material of the fixing element 1 enable creation of the click joint by means of getting locked together the recess 11 and the undercutting 12 formed in the base arm 7 of the skirting profile element 2.

[0028] The fixing element 1 may be arranged along a whole straight section of a wall or it may be also arranged by segments depending on the conditions, which means that many fixing elements 1 may be fixed along the whole route of the skirting arrangement, the fixing elements for the skirting having appropriate length and being fixed in selected distances.

Claims

1. A skirting board fixing system comprising a skirting profile element (2) and a fixing element (1) to which the skirting element (2) is separable connected, the fixing element (1) being archway bent and having a flat base wall (4) to be located under a floor board or a panel (3) and an upper arm (5) having a free

end, wherein the fixing element (1) is an elastic element,

characterized in that

the skirting profile element (2) has a base arm (7), and wherein

the free end of the upper arm (5) of the fixing element (1) is clickway connected to the base arm (7) of the skirting profile element (2).

2. A fixing system as claimed in claim 1, **characterized in that** the fixing element (1) is provided with a reinforcing web (9).

3. A fixing system as claimed in claim 1, **characterized in that** the fixing element (1) has a flattening (10) on its side facing the wall on which the skirting is to be arranged.

4. A fixing system as claimed in claim 1, **characterized in that** the fixing element (1) is provided with elastic inserts (13, 14).

5. A fixing system as claimed in claim 1, **characterized in that** the fixing element (1) is provided with a level elastic element (16).

6. A fixing system as claimed in claim 1, **characterized in that** the base arm (7) of the profile element (2) has an upright resistance protrusion (15).

Patentansprüche

1. Das Sockelleisten-Befestigungssystem umfasst ein Sockelleistenelement (2) und ein Befestigungselement (1), an dem das Sockelleistenelement (2) trennbar verbunden ist, wobei das Befestigungselement (1) bogenförmig gebogen ist und eine untere Bodenwand (4) unter einer Bodenplatte oder einer Platte (3) und einem Oberarm (5) mit freiem Ende aufweist, wobei das Befestigungselement (1) ein elastisches Element ist, **dadurch gekennzeichnet, dass** das Sockelleistenelement (2) einen Basisarm (7) aufweist und wobei das freie Ende des Oberarms (5) des Befestigungselements (1) mit dem Basisarm (7) des Sockelleistenelements (2) verbunden ist.
2. Befestigungssystem nach Anspruch 1, **dadurch gekennzeichnet, dass** das Befestigungselement (1) mit einem Verstärkungsnetz (9) versehen ist.
3. Befestigungssystem nach Anspruch 1, **dadurch gekennzeichnet, dass** das Befestigungselement (1) an seiner der Wand zugewandten Seite eine Abflachung (10) aufweist, an der die Sockel angeordnet ist.

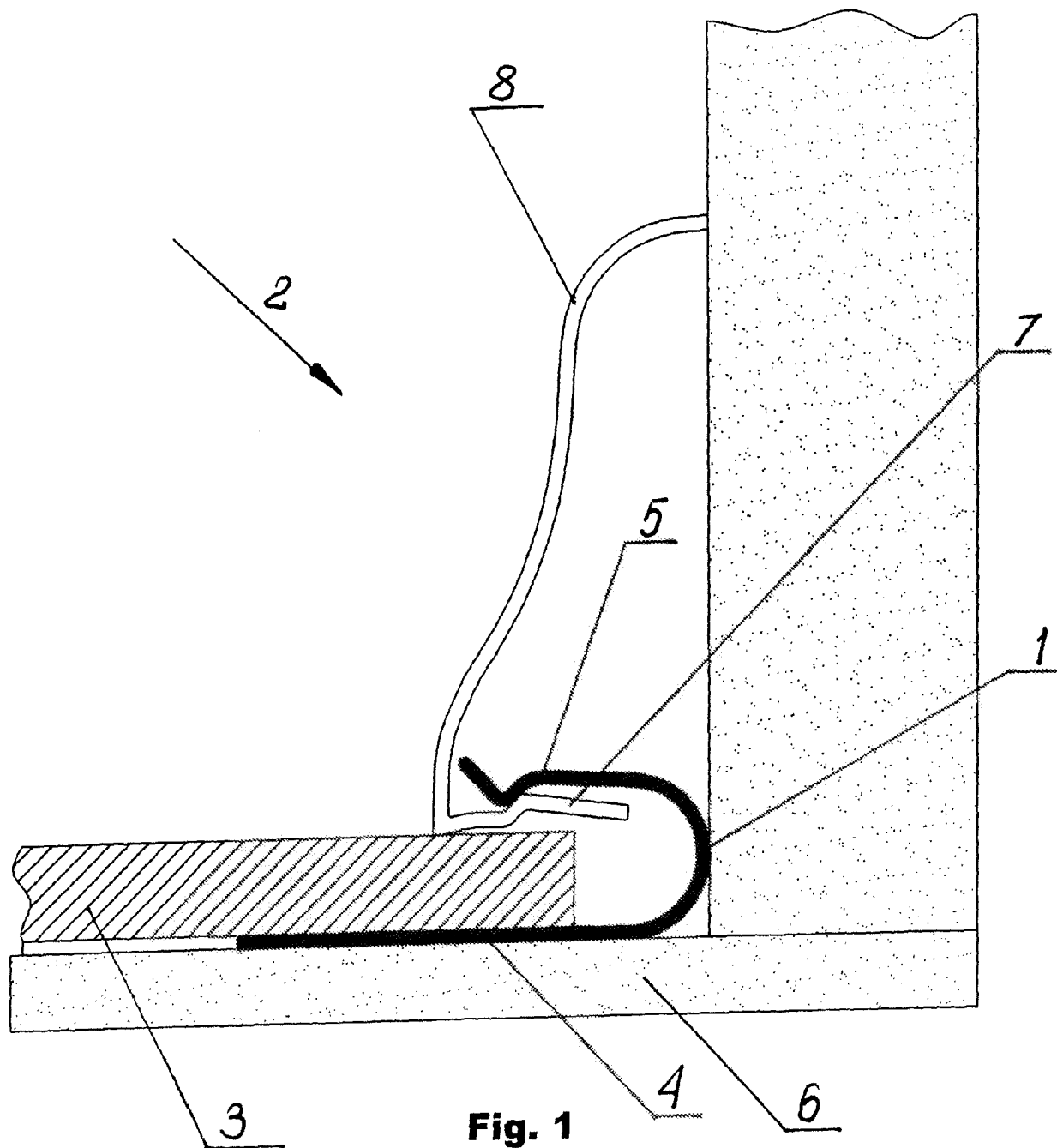
4. Befestigungssystem nach Anspruch 1, **dadurch gekennzeichnet, dass** das Befestigungselement (1) mit elastischen Einsätzen (13, 14) versehen ist.

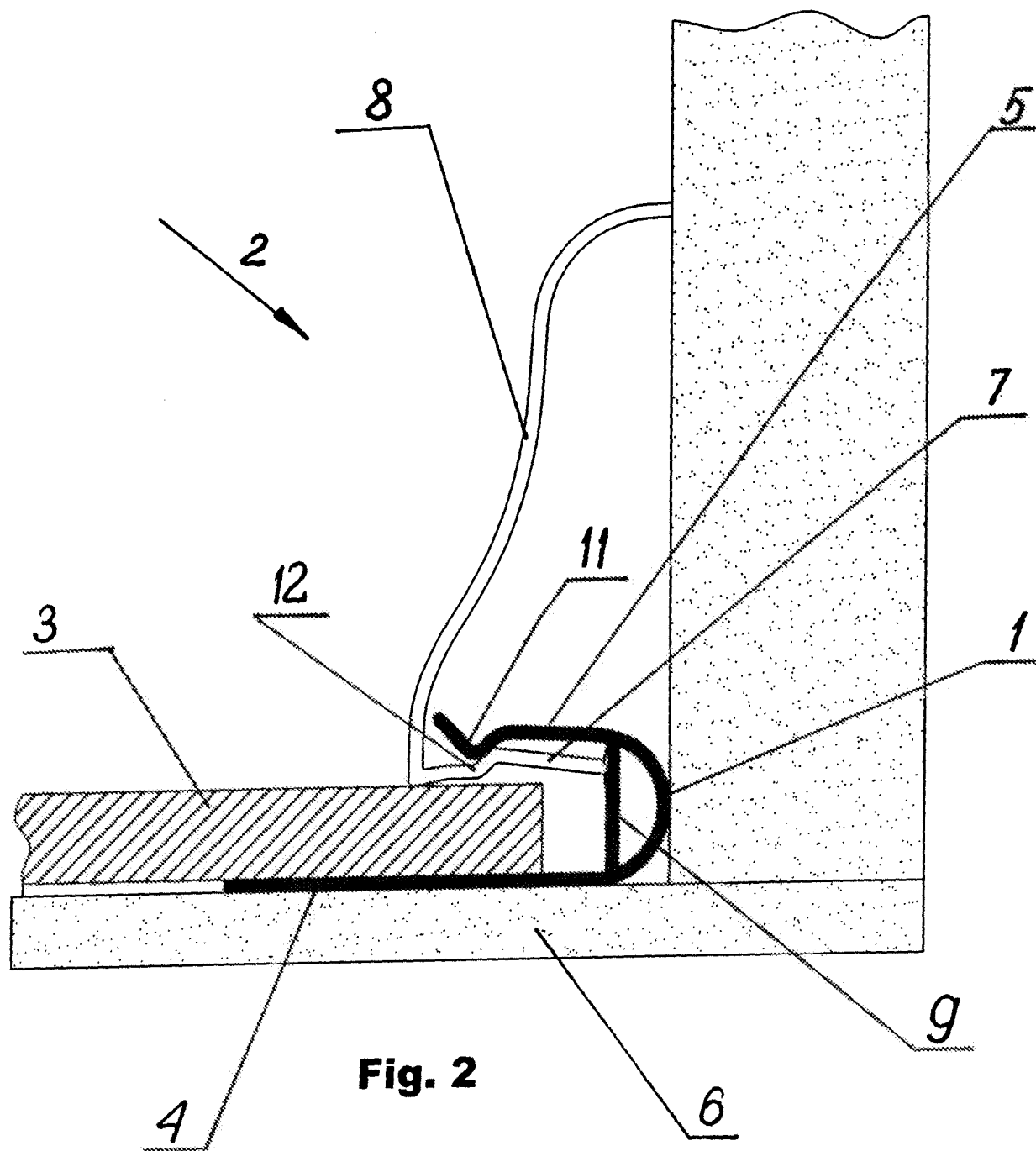
5. Befestigungssystem nach Anspruch 1, **dadurch gekennzeichnet, dass** das Befestigungselement (1) mit einem flachen elastischen Element (16) versehen ist.

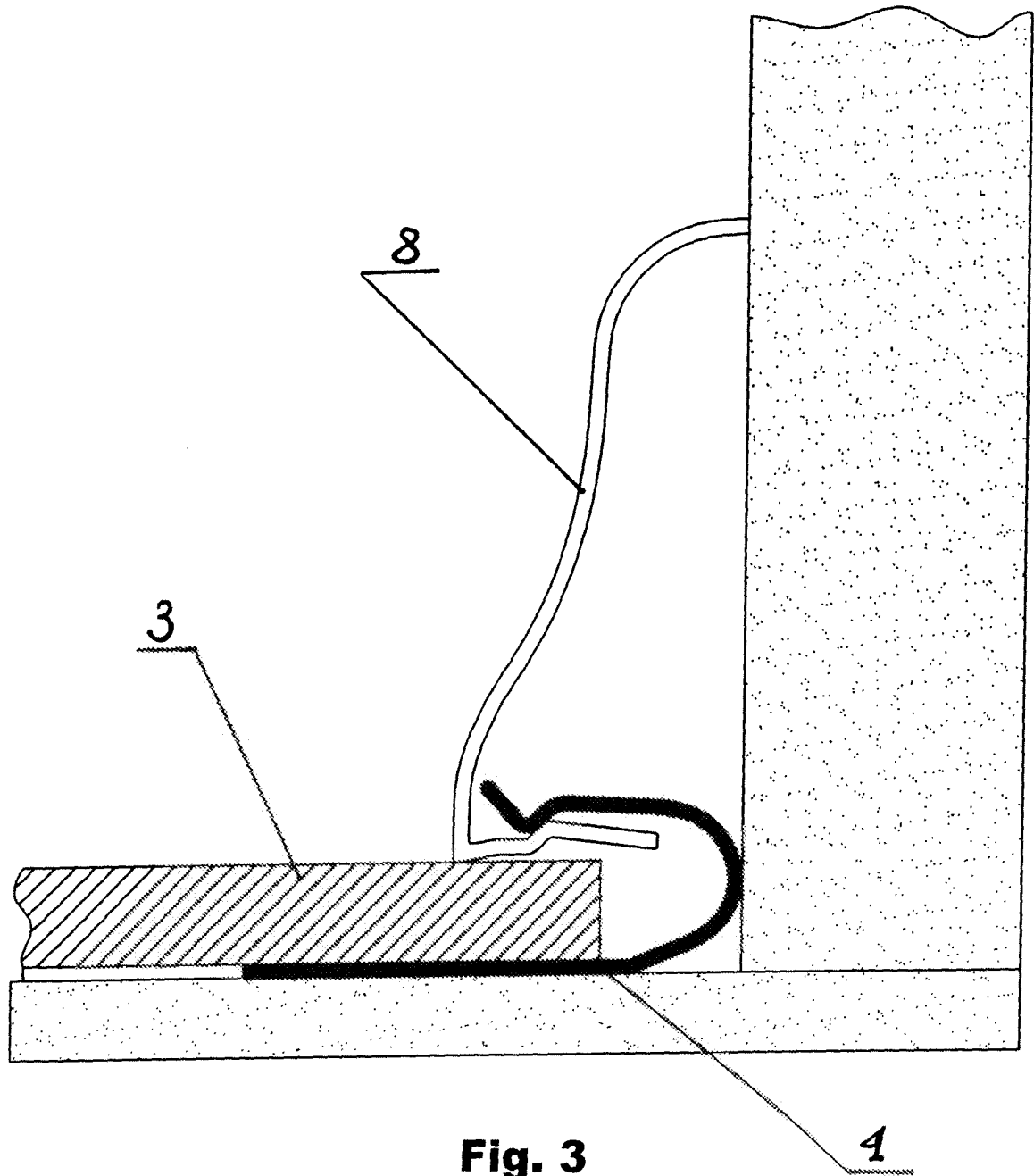
6. Befestigungssystem nach Anspruch 1, **dadurch gekennzeichnet, dass** der Basisarm (7) des Profilelements (2) einen aufrechten Widerstandsvorsprung (15) aufweist.

Revendications

1. Un système de fixation de plinthe comprenant un élément profilé de plinthe (2) et un élément de fixation (1) auquel l'élément de plinthe (2) est connecté de manière séparable, l'élément de fixation (1) étant plié en arc et ayant une paroi de base plate (4) à se trouver sous une planche de plancher ou un panneau (3) et un bras supérieur (5) ayant une extrémité libre, où l'élément de fixation (1) est un élément élastique, **caractérisé en ce que** l'élément profilé de plinthe (2) a un bras de base (7), et où l'extrémité libre du bras supérieur (5) de l'élément de fixation (1) est relié en cliquant au bras de base (7) de l'élément profilé de plinthe (2).
2. Un système de fixation selon la revendication 1, **caractérisé en ce que** l'élément de fixation (1) est pourvu d'une bande de renfort (9).
3. Un système de fixation selon la revendication 1, **caractérisé en ce que** l'élément de fixation (1) a un aplanissement (10) sur son côté tourné vers le mur sur lequel la plinthe doit être disposée.
4. Un système de fixation selon la revendication 1, **caractérisé en ce que** l'élément de fixation (1) est pourvu d'inserts élastiques (13, 14).
5. Un système de fixation selon la revendication 1, **caractérisé en ce que** l'élément de fixation (1) est pourvu d'un élément élastique de niveau (16).
6. Un système de fixation selon la revendication 1, **caractérisé en ce que** le bras de base (7) de l'élément profilé (2) a une saillie de résistance verticale (15).







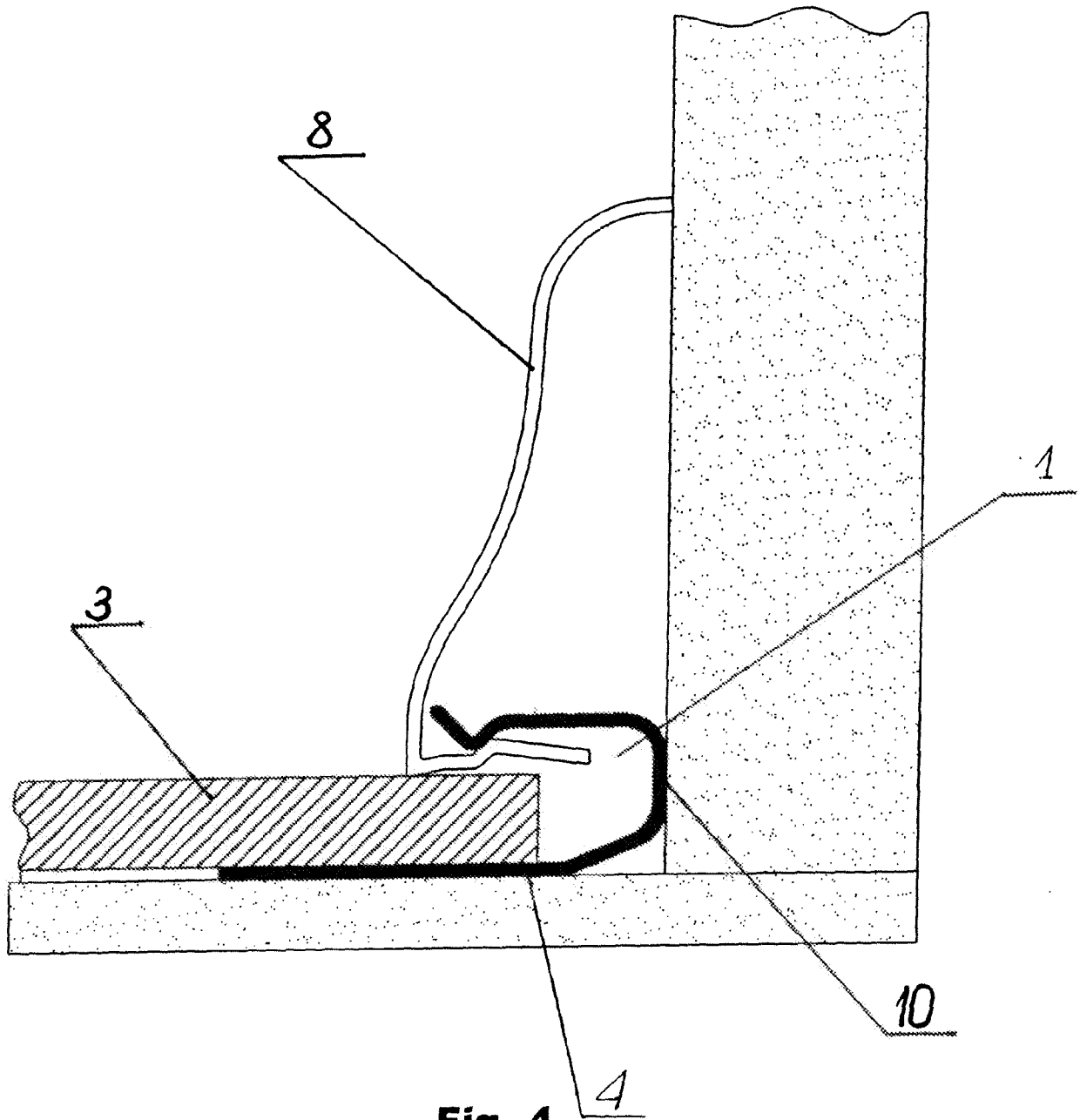


Fig. 4

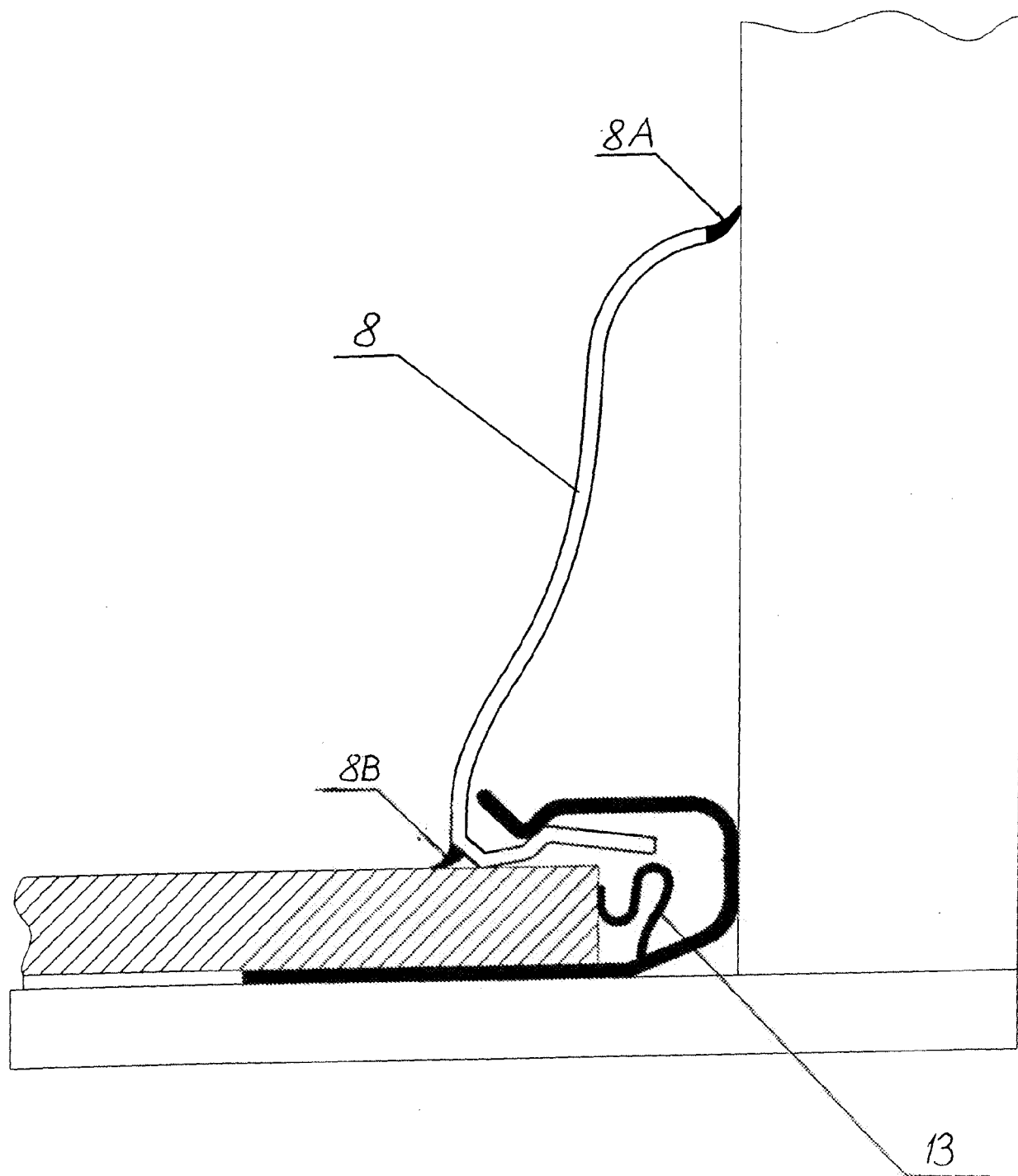


Fig. 5



Fig. 6A



Fig. 5A



Fig. 8A

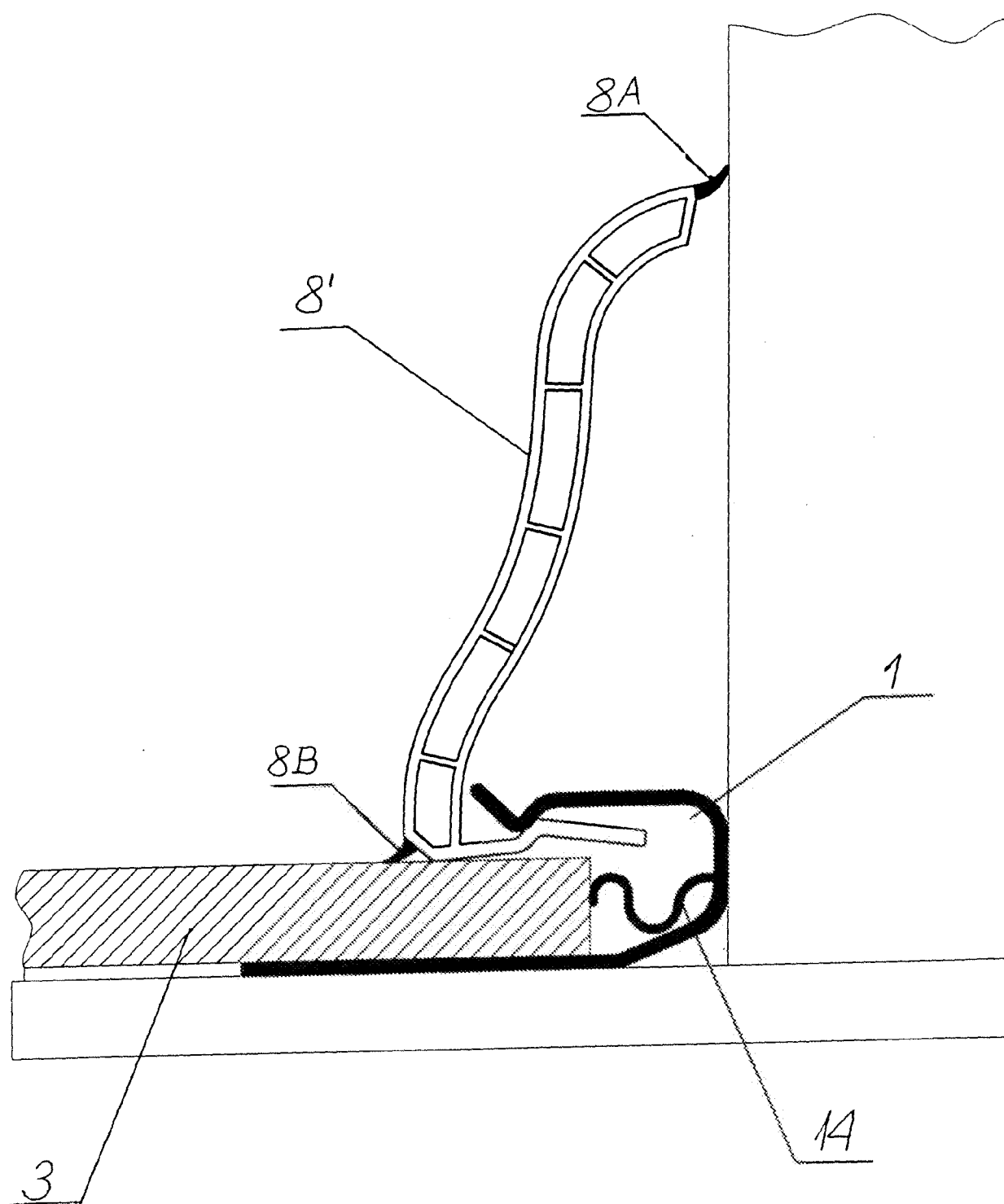


Fig. 6

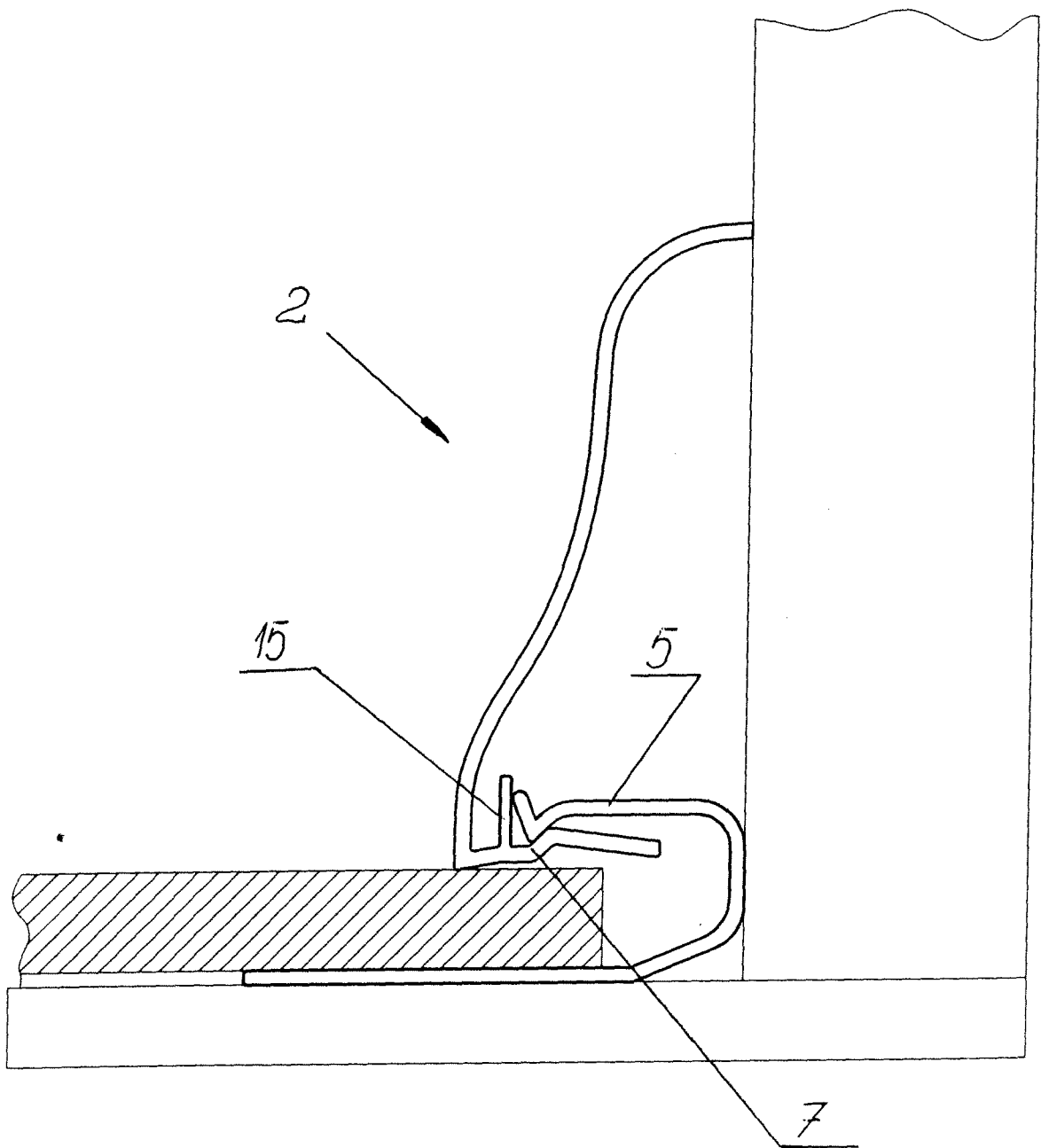
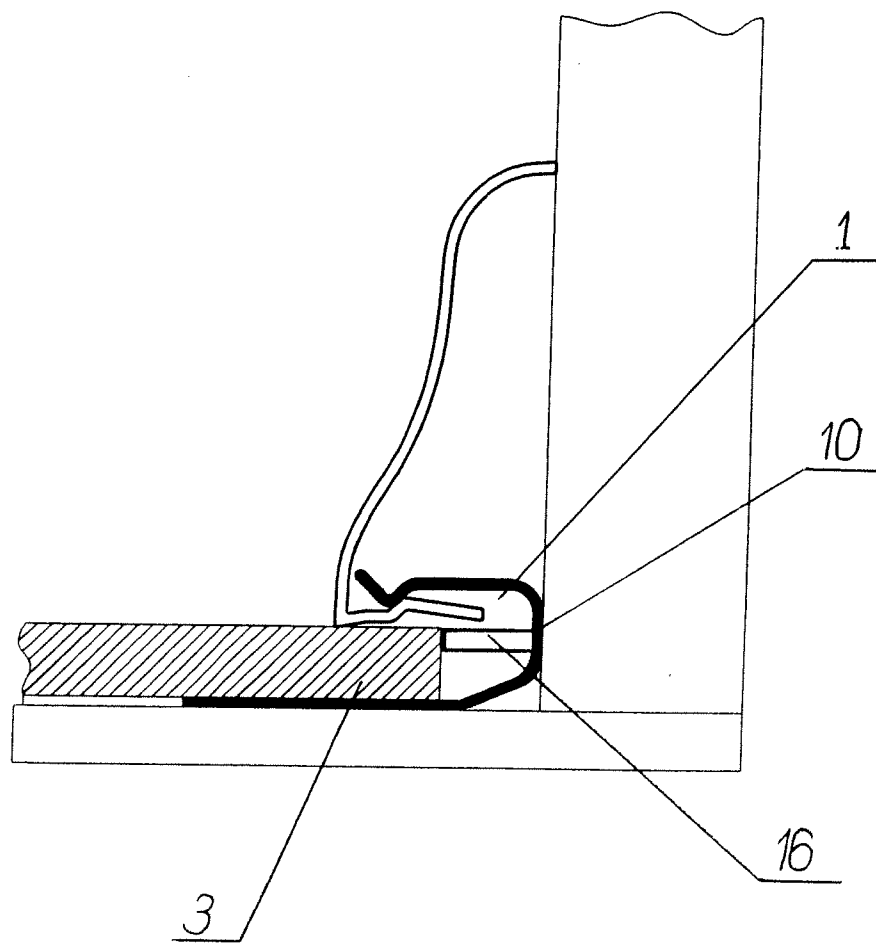


Fig. 7

Fig. 8



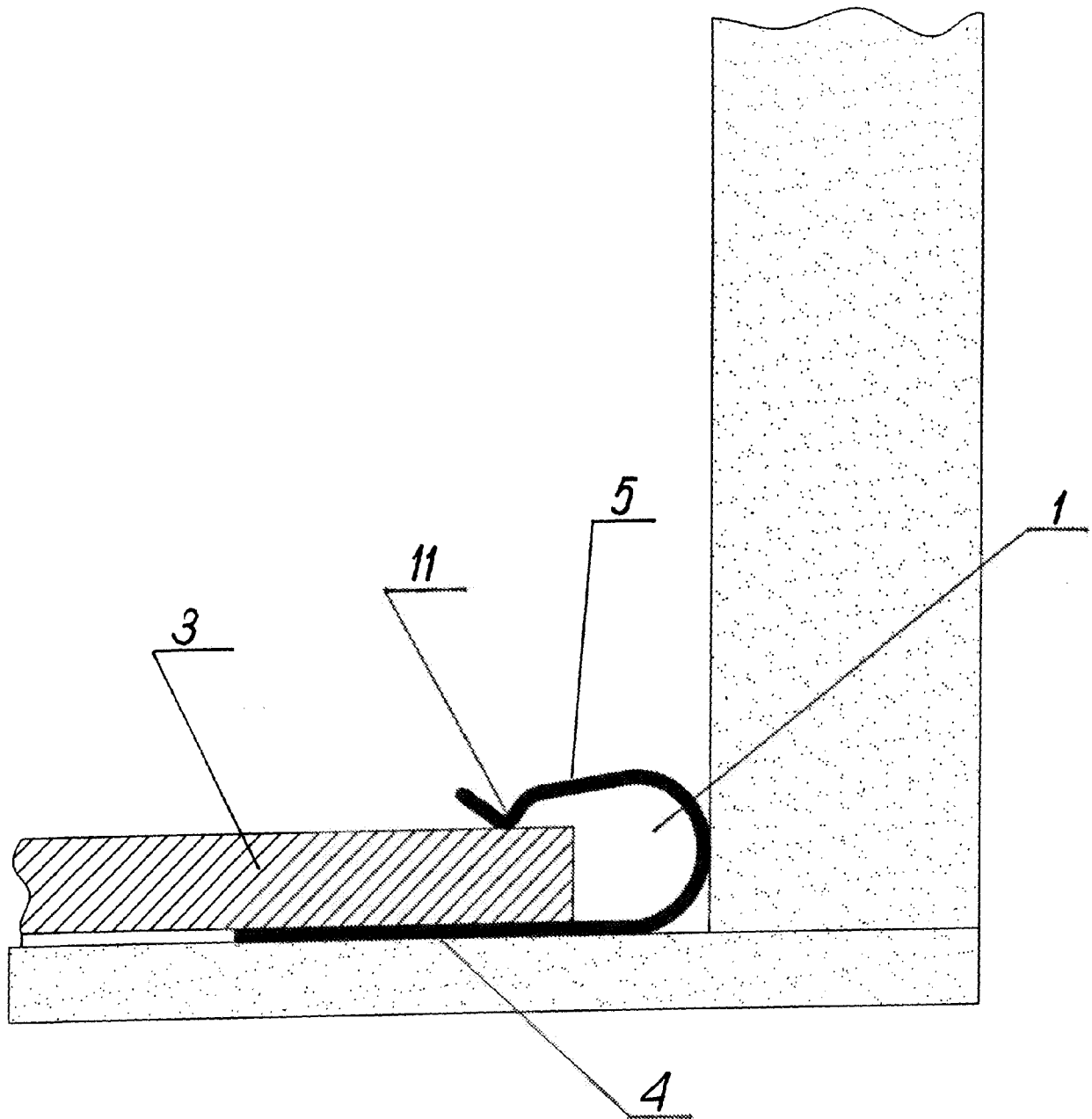


Fig. 9

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- PL 63458 Y1 [0002]
- PL 200819 [0003]
- DE 9301324 U [0005]

SZEGÉLYLÉCET RÖGZÍTŐ RENDSZER

Szabadalmi igénypontok

1. Szegélylécet rögzítő rendszer, amely magában foglal egy szegélyléc-profilelemet (2) és egy rögzítő elemet (1), amellyel a szegélyléc-elem (2) szétválasztható módon van összekapcsolva,
ahol a rögzítő elem (1) ívesen hajlítva van és rendelkezik egy lapos alapfallyal (4), amelyet egy padlólap vagy egy panel (3) alatt kell elhelyezni, és egy felső karral (5), amely rendelkezik egy szabad véggel, ahol a rögzítő elem (1) egy elasztikus elem,
azzal jellemezve, hogy
a szegélyléc-profilelem (2) rendelkezik egy alap-karral (7), és ahol
a rögzítő elem (1) felső karjának (5) a szabad vége bepattanó módon van összekapcsolva a szegélyléc-profilelemnek (2) az alap-karjával (7).
2. Rögzítő rendszer az 1. igénypont szerint, **azzal jellemezve, hogy** a rögzítő elem (1) el van látva egy erősítő szalaggal (9).
3. Rögzítő rendszer az 1. igénypont szerint, **azzal jellemezve, hogy** a rögzítő elem (1) rendelkezik egy laposított (egyenes) résszel (10) azon az oldalán, amely az a fal felé fordul (néz), amelyre a szegélylécet kell elrendezni.
4. Rögzítő rendszer az 1. igénypont szerint, **azzal jellemezve, hogy** a rögzítő elem (1) el van látva elasztikus betétekkel (13, 14).
5. Rögzítő rendszer az 1. igénypont szerint, **azzal jellemezve, hogy** a rögzítő elem (1) el van látva egy szintező elasztikus elemmel (16).
6. Rögzítő rendszer az 1. igénypont szerint, **azzal jellemezve, hogy** a profilelemnek (2) az alap-karja (7) rendelkezik egy függőleges (álló helyzetű) ellenálló kiálló résszel (15).

