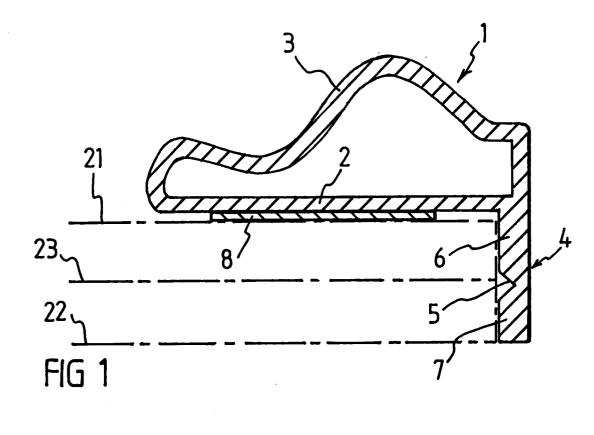
(19)	Europäisches Patentamt European Patent Office Office européen des brevets	(11) EP 0 902 407 A1				
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(54) Sign framing

(57) A sheet of plastics material for use as a sign has an extruded plastics section forming a frame around its peripheral edge. The section has a hollow top part 1 and a perpendicular side wall 4. The top part 1 has a planar bottom wall 2 which is secured to the front surface of the sheet by a stip of pressure-sensitive adhesive 8, and a profiled top wall 3. The side wall 4 covers the side face of the sheet and includes a groove 5 on its inside face forming a line of weakness for removing a section 7 allowing the section to be used with different thicknesses of sheet.



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Description

TECHNICAL FIELD OF THE INVENTION

[0001] This invention relates to the framing of signs and a framing section for use therein.

BACKGROUND

[0002] It is very common to produce signs by printing or engraving a rigid sheet of plastics material. In most cases the signs are fixed in position without any edging.[0003] The present invention seeks to provide a new and inventive way of forming a frame around a sign.

SUMMARY OF THE INVENTION

[0004] The present invention provides a sign comprising a sheet of plastics material having a front face and a side face surrounding said front face,

characterised by a frame formed of a plastics extrusion and extending around the periphery of the sheet and which, in transverse cross section, comprises a top part which partially overlies said front face of the sheet and is secured thereto by an adhesive layer, and a side wall which covers or substantially covers the side face of the sheet.

[0005] The adhesive layer preferably comprises a strip of pressure sensitive adhesive.

[0006] The frame preferably comprises a plurality of *30* lengths of the extrusion arranged end-to-end.

[0007] The invention also provides an extruded plastics section for forming a frame around a sheet of plastics material having a front face and a side face surrounding said front face,

characterised by a top part for partially overlying the front face of the sheet, the top part having an undersurface which is provided with a layer of pressure-sensitive adhesive for securing said section to the sheet, and a side wall which extends substantially perpendicularly from a longitudinal edge of the top part to cover or substantially cover the side face of the sheet.

[0008] The top part of the extrusion is preferably of hollow section and preferably comprises a planar bottom wall and a profiled top wall.

[0009] The side wall preferably includes at least one groove which extends longitudinally of the section and provides a dividing line for removal of a portion of said side wall. Said at least one groove is preferably formed in an inside face of said side wall which is opposed to the side face of the sheet in use.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] The following description and the accompanying drawings referred to therein are included by way of non-limiting example in order to illustrate how the invention may be put into practice. In the drawings: Figure 1 is a transverse sectional view of a framing section for use in the invention, and

Figure 2 is a front view of a sign which includes the framing section.

DETAILED DESCRIPTION OF THE DRAWINGS

- [0011] Referring to Fig. 1, the framing section is formed as a plastics extrusion, of pvc or similar material. The frame includes a hollow top part 1 which, although not shown, may contain one or more internal strengthening webs which completely or partially divide the interior of the section into compartments. The top part has
- a planar bottom wall 2 and an opposed top wall 3 which may be formed with any curved or flat decorative profile.
 [0012] A side wall 4 extends perpendicularly downwards from an edge of the bottom wall 2. The inner face of the side wall 4, which faces towards the bottom wall 2, includes a longitudinally-extending notch or groove 5 forming a line of weakness which divides the side wall into upper and lower regions 6 and 7.

[0013] The undersurface of the bottom wall 2 carries a strip of double-sided pressure-sensitive adhesive 8, one side being adhered to the wall 2 and the other side being protected prior to use by a peelable protective backing strip (not shown).

[0014] As shown in Fig. 2, the extruded section can be used to form an edging frame 10 around a plastics sheet 12 such as a sheet of solid acrylic or foamed pvc, which may be engraved or printed for use as a sign or notice. The section is cut to the required lengths which are mitred and butted together at the corners of the frame, as indicated at 14. The sections can then be adhered to the sheet by peeling the backing from the ad-

hesive strip 8 and pressing the adhesive against the front face of the frame.

[0015] In the case of a relatively thick sign (e.g. formed of 10mm sheet) the side wall 4 of the extruded section substantially covers the side edge of the sheet, as indicated in Fig. 1 by the widely spaced pair of dashed lines 21 and 22. However, in the case of a relatively thin sheet (e.g. about 5mm) the side wall 4 is first reduced in depth by bending and breaking off the bottom section

⁴⁵ 7 or, preferably, by cutting along the groove 5 with a sharp knife. The modified section is thus suitable for covering the edge of thinner signs, as indicated by the pair of dashed lines 21 and 23.

[0016] The edging strips can be applied over the top of fixing screws which are countersunk into the front surface of the sign. The sign is therefore less easy to remove, and the fixings are neatly hidden.

[0017] The use of the extruded section has the following advantages:

- The signs are neatly framed using a material of complimentary appearance.

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- A single extrusion can be used with several different thicknesses of sign so that manufacturing and stock costs are reduced.
- It is not necessary to remove saw marks etc. from the cut edges of the sheet so that the production time of the signs is increased.
- There is less risk of differential expansion or shrinkage between the sign sheet and the frame since ¹⁰ they are formed of similar materials.
- The frame can be used to cover the sign fixings as described above.

[0018] It will be appreciated that the features disclosed herein may be present in any feasible combination. Whilst the above description lays emphasis on those areas which, in combination, are believed to be new, protection is claimed for any inventive combination ²⁰ of the features disclosed herein.

Claims

1. A sign comprising a sheet (12) of plastics material having a front face and a side face surrounding said front face,

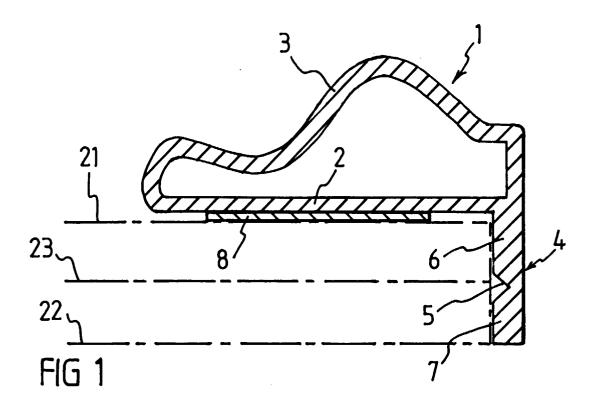
characterised by a frame (10) formed of a plastics extrusion and extending around the periphery of the sheet and which, in transverse cross section, comprises a top part (1) which partially overlies said front face of the sheet and is secured thereto by an adhesive layer (8), and a side wall (4) which covers or substantially covers the side face of the sheet.

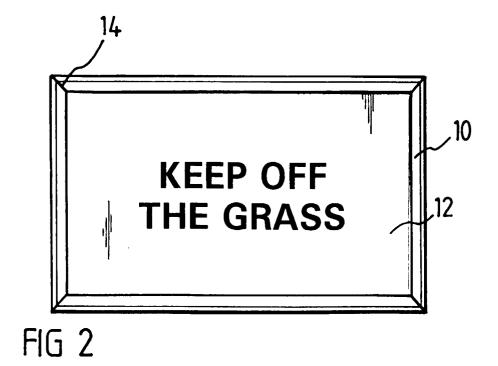
- 2. A sign according to Claim 1, in which the adhesive layer (8) comprises a strip of pressure sensitive adhesive.
- **3.** A sign according to Claim 1 or 2, in which the frame comprises a plurality of lengths of the extrusion arranged end-to-end.
- **4.** A sign according to any preceding claim, in which the top part (1) is of hollow section.
- A section according to Claim 4, in which the top part
 (1) comprises a planar bottom wall (2) and a profiled 50 top wall (3).
- **6.** An extruded plastics section for forming a frame around a sheet of plastics material (12) having a front face and a side face surrounding said front ⁵⁵ face,

characterised by a top part (1) for partially overlying the front face of the sheet, the top part

having an undersurface which is provided with a layer of pressure-sensitive adhesive (8) for securing said section to the sheet, and a side wall (4) which extends substantially perpendicularly from a longitudinal edge of the top part to cover or substantially cover the side face of the sheet.

- 7. A section according to Claim 6, in which said side wall (4) includes at least one groove (5) which extends longitudinally of the section and provides a dividing line for removal of a portion (7) of said side wall.
- A section according to Claim 7, in which said at least one groove (5) is formed in an inside face of said side wall (4) which is opposed to the side face of the sheet in use.
 - **9.** A section according to any of Claims 6 to 8, in which the top part (1) is of hollow section.
 - 10. A section according to Claim 9, in which the top part (1) comprises a planar bottom wall (2) and a profiled top wall (3).







European Patent

Office

EUROPEAN SEARCH REPORT

Application Number EP 98 30 6667

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Category	Citation of document with indica of relevant passage	ation, where appropriate, s	Relevant to claim	CLASSIFICATION OF THE APPLICATION (int.Cl.6)
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	The present search report has beer	drawn up for all claims		
Place of search THE HAGUE		Date of completion of the search 20 January 1999	Gal	Examiner 10, G
X : parti Y : parti docu A : tech	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same category nological background	T : theory or princi E : earlier patent d after the filing c D : document citer L : document cited	ple underlying the in locument, but publis late d in the application i for other reasons	nvention shed on, or
	written disclosure mediate document	& : member of the document	same patent family	, corresponding

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

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