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(54) **Relief label with artificial ageing for clothing.**

(57) The relief conformation of the label can be obtained by means of printing with a high frequency forming device which causes the material melting and shapes it. The same label is then treated, according to the drawing, with varnishes that can be easily taken away. The label is then submitted to an erasion action which diffusely removes the varnishes particularly from the reliefs in order to cause a wear visual perception. At last the label is treated with protecting resin varnishes which allow the image to last.

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Relief label with artificial ageing for clothing.

Object of the invention is the idea of manufacturing coloured relief labels which allow the visual perception of a prolonged wear, thus meeting particular requirements of clothing industry. In the young section of this one, ordinarily defined as "young fashion", clothing pieces are currently employed often in raw type material with gaudy colours which show traces of prolonged use and several patches. All that in order to give rise to a visual perception and easy agibility in clothing pieces often carried out with poor value materials. In this type of clothing, labels are currently widely used which characterize the dress piece by means of images with high ornamental effect, such as personages of cartoons and with several references to deeds and things.

The invention enables to carry out coloured relief labels with artificial ageing on industrial scale, thus offering two possibilities of employ: either to allow to suit the effect of the label fitted on the dress piece already carried out in a similar way, or to fit the label showing marked ageing spurs on dress pieces which, on the contrary, do not show them, thus allowing to open a new canal in this particular sector of the clothing industry. In this way, the conventional clothing piece will be characterized by the presence of one or more labels in particular showy form, since carried out in relief, coloured and worn out. The worn out state of the label will thus make precious the piece: this because the type of fitting, the employ of a worn out dress piece on a new one, at first sight will lead to attribute at least a certain intrinsic value to the first one. Substantially the relief conformation of the label can be obtained by pressing with a high frequency welding machine for plastic materials. The forming mould sunk on the material causes its melding and shapes it according to the drawing. This one is then made evident with different processings with varnishes to easily take away. The artificial ageing of the label thus obtained can be carried out in different ways with abrading action which causes an irregular partial removal of the varnish particularly on the reliefs.

In a version, ageing can be obtained by means of irregular manual or mechanical brushing. In another version, ageing is obtained by dipping the labels in presence of abrasive substances in container which is then set in motion.

An execution form is illustrated in a merely indicative, and consequently not limiting way of the proceeding, in the drawings of table 1. Fig. 1 is the schematic view of the printing phase with high frequency welding machine which determines the

relief label starting from the plate support in plastic materials obtained by means of punching. Fig. 2 is the perspective view of a varnished label. Fig. 3 is view of the same image of the previous figure already underlying to the abrading action for the artificial ageing. From fig. 3 infact, it can be noted that the abrading action on the label has caused an irregular removal of the varnish.

The system here illustrated employs the high frequency welding machine with movement piston 1 for column 2 which, on base 3, bears the forming pressing device 4 acting on the punching support 5 in plastic materials and fitted on the collation plane 6. In the present execution form for carrying out the label, this one is manufactured in two colour types 7 and 8, as it can be noted from fig. 3, have been partially and irregularly removed according to a specific methodology apt to satisfy a subjective ideographic requirements.

The label can be manufactured in any possible material, of either only one or more components of different kind, and anyhow applied in connection with the employ requirements. Printing can be carried out on each punching body or on a continuous supporting wall, with the possibility of subsequently determining in the label cutting phase. As far as colouring is concerned, any known working proceeding may be used, as well as the varnishes used with additives and different integrating materials. In particular full field smearing on the already coloured support and already submitted to abrasive treatment in resin varnishes, allows the integration and inclusion of the whole, which has already been treated in a transparent protection covering of suited thickness which allows to the labels to persist in the time and guarantees its conservation.

Claims

1) Relief label with artificial ageing for clothing, characterized by the fact that the relief conformation can be obtained by pressing with a high frequency welding machine for plastic materials. The shaping press sunk on the material causes it to melt and shapes it according to the design. This one is then made evident with different proceedings with easily removable varnishes. The artificial ageing of the labels thus obtained can be carried out in different ways with abrading action which causes an irregular partial removal of the varnish on the reliefs.

2) Relief label with artificial ageing for clothing, as per claim 1, characterized by the fact that, in a version, ageing is obtained by means of manual or mechanical irregular type brushing.

3) Relief label with artificial ageing for clothing, as per claim 1, characterized by the fact that, in another version, ageing is obtained by dipping the labels in presence of abrasive substances in container which is then set in motion.

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4) Relief label with artificial ageing for clothing, as per previous claims, characterized by the fact that the high frequency welding machine with piston (1) is used for moving column (2) bearing the forming mould (4) on the base (3) acting on the punching support (5) in plastic materials fitted on the checkin plane (6).

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5) Relief label with artificial ageing for clothing, as per previous claims, characterized by the fact that the full field smearing on the support already coloured and treated with abrading action, with resin varnishes, allows the integration and enclosing of the assembly already carried out in a transparent and protecting enclosure with adequate thickness, which allows the permanence of the label and guarantees its conservation.

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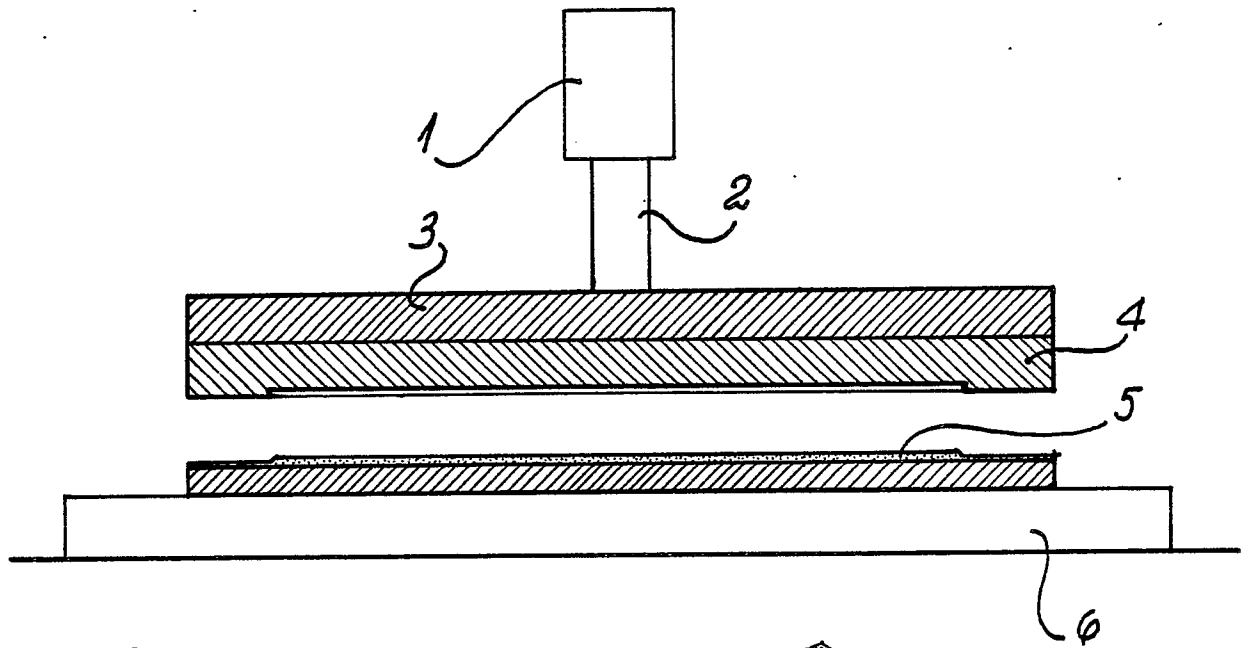


FIG. 1

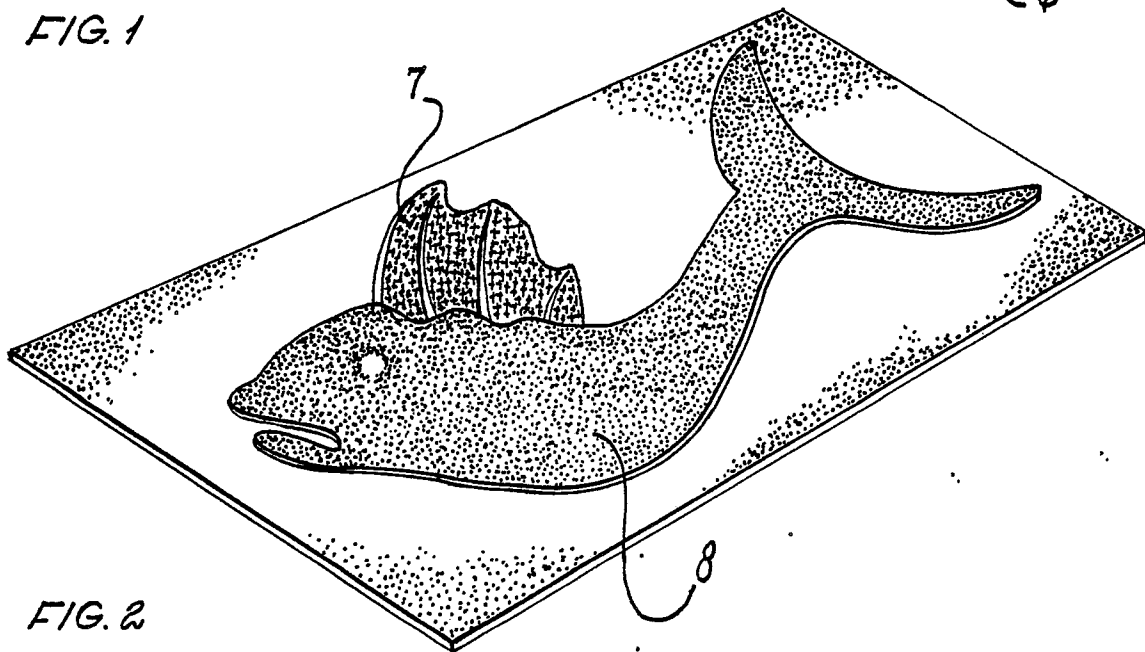


FIG. 2

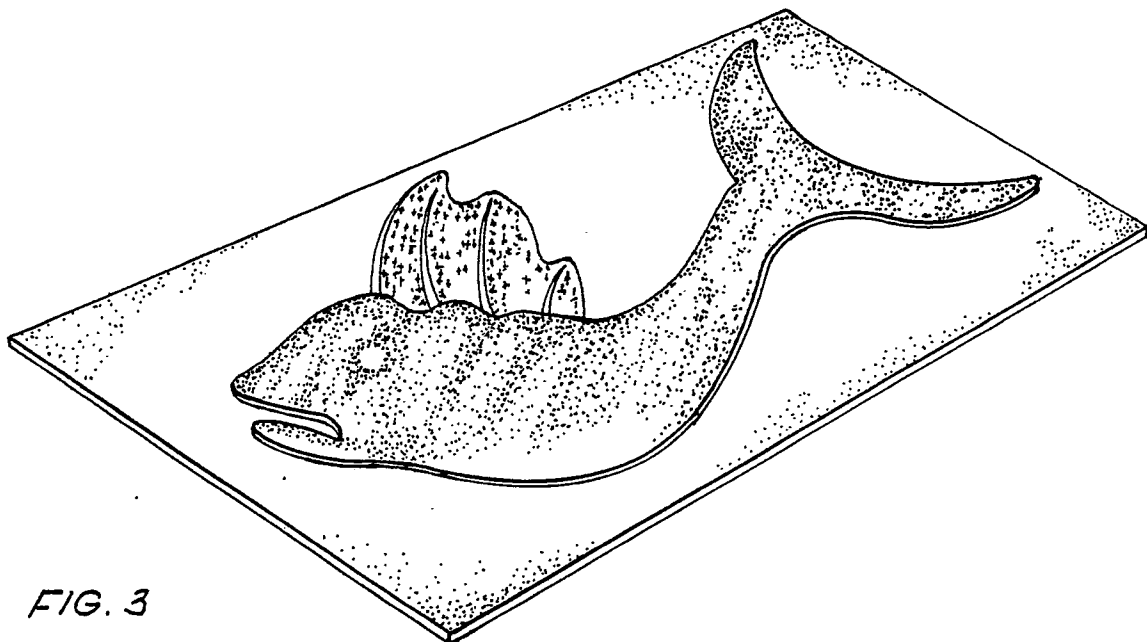


FIG. 3



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.4)
A	FR-A- 873 956 (SYLVANIA INDUSTRIAL CORP.) * Abstract, points 10b-d,g,20; page 5, lines 5-35 * ----	1	G 09 F 3/04 B 44 C 1/22 D 06 Q 1/00 B 05 D 3/12
A	DE-A-3 112 523 (H. ZERFASS) * Claims 1,4; page 2 * -----	1-2	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 09 F B 44 C B 05 D D 06 Q
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-08-1988	Examiner FRANSEN L.J.L.
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			