

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 320 527 B1

(12)

EUROPEAN PATENT SPECIFICATION

- (45) Date of publication of patent specification: **10.11.93** (51) Int. Cl.⁵: **G09F 3/04**, B44C 1/22,
D06Q 1/00, B05D 3/12
- (21) Application number: **87118750.6**
- (22) Date of filing: **17.12.87**

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

- (43) Date of publication of application:
21.06.89 Bulletin 89/25
- (45) Publication of the grant of the patent:
10.11.93 Bulletin 93/45
- (84) Designated Contracting States:
AT BE CH DE ES FR GB GR LI LU NL SE
- (56) References cited:
DE-A- 3 112 523
FR-A- 873 956

- (73) Proprietor: **Memè snc di Salati Bruna & C.**
via Passo Varano 379A
Varano (Ancona)(IT)
- (72) Inventor: **Maurizio, Graziosi**
via Alpi 25
Ancona(IT)
- (74) Representative: **Sassatelli, Franco T., Dr.**
c/o INIP
via Ruggi 5
I-40137 Bologna (IT)

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid (Art. 99(1) European patent convention).

EP 0 320 527 B1

Description

The present invention refers to the production of 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 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 foresees 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 is obtained by pressing with a high frequency welding machine for plastic materials. The forming mould getting lower 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.

The present process is illustrated in a merely indicative, and consequently not limiting way of the proceeding, in drawings of sheet 1. Fig. 1 is 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

perspective view of a varnished label. Fig. 3 is view of the same previous label already underlying to the abrading action for the artificial ageing. In fig. 3 can be noted that the abrading action on the label has caused an irregular removal of the varnish. The process here illustrated is obtained by means of a 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 colours types 7 and 8, as it can be noted in fig. 3, have been partially and irregularly removed according to a specific methodology apt to satisfy a subjective ideographic 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. Method for the production of relief labels for clothing in which the relief conformation is obtained by pressing the labels with a high frequency welding machine where the shaping press getting lower on the plastic material causes its melting for the desired shaping; characterized in that an artificial ageing of said labels is obtained by the steps of a) evidencing the design with different proceedings with easily removable varnish, b) removing part of the varnish in different ways with abrading action which causes an irregular partial removal of the varnish on the reliefs.
2. Method according to claim 1 wherein the abrading action is obtained by means of manual or mechanical irregular type brushing.
3. Method according to claim 1 wherein the abrading action is obtained by dipping the labels into a container with abrasive substances which is then set in motion.
4. Method according to claim 1 characterized by the additional step of protecting where the full

field smearing on the support already coloured and treated with abrading action, with resin varnish, 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.

Patentansprüche

1. Reliefetikette mit künstlichem Altern für Bekleidung, in dem Verfahren wird die Reliefform durch Pressen der Etikette mit einer Schweißmaschine mit hoher Frequenz, bei der der Formdruck beim Herablassen auf das Plastikmaterial die Fusion deselbigen gemäß der gewünschten Form verursacht; für den Vorgang ist folgender Punkt charakteristisch: eine künstliche Alterung der Etiketten wird durch a) Hervorhebung der Zeichnung durch verschiedene Vorgänge mit Farben, die sich leicht abtragen lassen, erreicht, b) Entfernung eines Teils der Farbe auf verschiedene Art und Weise mit scheuernder Wirkung, die eine teilweise und unregelmäßige Entfernung der Farbe auf dem Relief bewirkt, erreicht. 5
2. Reliefetikette mit künstlichem Altern für Bekleidung, wie bei dem Anspruch 1), in dem der abgenutzte Effekt durch unregelmäßiges mechanisches Bürsten oder durch Bürsten mit der Hand erreicht wird. 10
3. Reliefetikette mit künstlichem Altern für Bekleidung, wie bei dem Anspruch 1), in dem der abgenutzte Effekt durch Eintauchen der Etikette in einen Behälter, der in Bewegung gesetzt wird, erreicht wird. 15
4. Reliefetikette mit künstlichem Altern für Bekleidung, wie bei dem Anspruch 1), charakterisiert durch einen letzten Schritt zum Schutz, in dem die Beschichtung auf der ganzen Fläche der Ungerlage; die bereits gefärbt und mit einer schwerernden Substanz behandelt wurde; mit Farbe in Harz, das eine Verrollständigkeit und eine Einverleibung des Komplexes, der bereit mit einem transparenten und schützenden Überbeizung angemessene Stärke versehen wurde, zuläßt; dieser Schritt garantiert die Widerstandsfähigkeit der Etikette und ihre Erhaltung. 20

quence où l'étampe de moulage en descendant sur le matériel plastique provoque sa fusion conforme à la forme désirée; caractérisé par que le vieillissement artificiel de ces étiquettes est obtenu par a) la mise en évidence du dessein selon une variété de procédés employant un vernis qu'on peut enlever facilement, b) l'enlèvement d'une partie de vernis selon des procédés différents par une action abrasive qui cause un enlèvement partiel et irrégulier du vernis même sur les reliefs.

2. Méthode selon la revendication 1) où l'action abrasive est obtenue au moyen d'un brossage irrégulier du type manuel ou mécanique. 25
3. Méthode selon la revendication 1) où l'action abrasive est obtenue en plongeant les étiquettes parmi des substances abrasives contenues dans une cuve qui est ensuite mise en mouvement. 30
4. Méthode selon la revendication 1) caractérisée par une ultérieure mesure de protection où l'enduisage à plein champ sur le support, déjà coloré et traité par l'action abrasive, aussi que l'emploi d'un vernis à base de résine assure l'intégration et l'incorporation de l'ensemble déjà traité dans un revêtement incolore et protéger d'un épaisseur convenable qui rend l'étiquette résistante et qui en assure une très longue conservation. 35

Revendications

1. Etiquette en relief à vieillissement artificiel pour vêtements où la conformation en relief des étiquettes est obtenue par étampage au moyen d'une machine à sonner à haute fré- 40

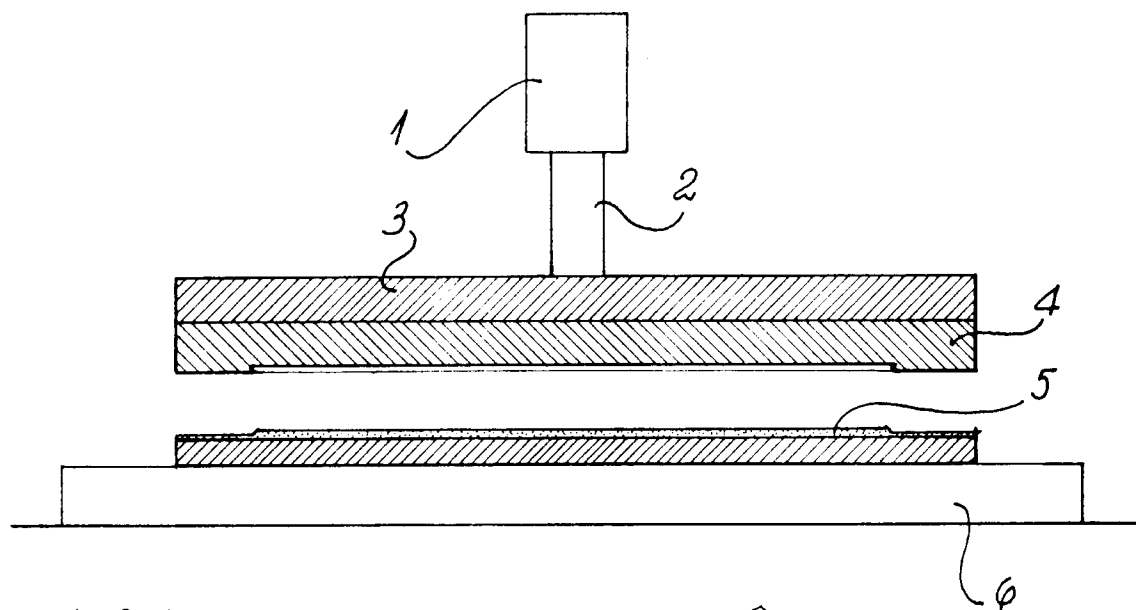


FIG. 1

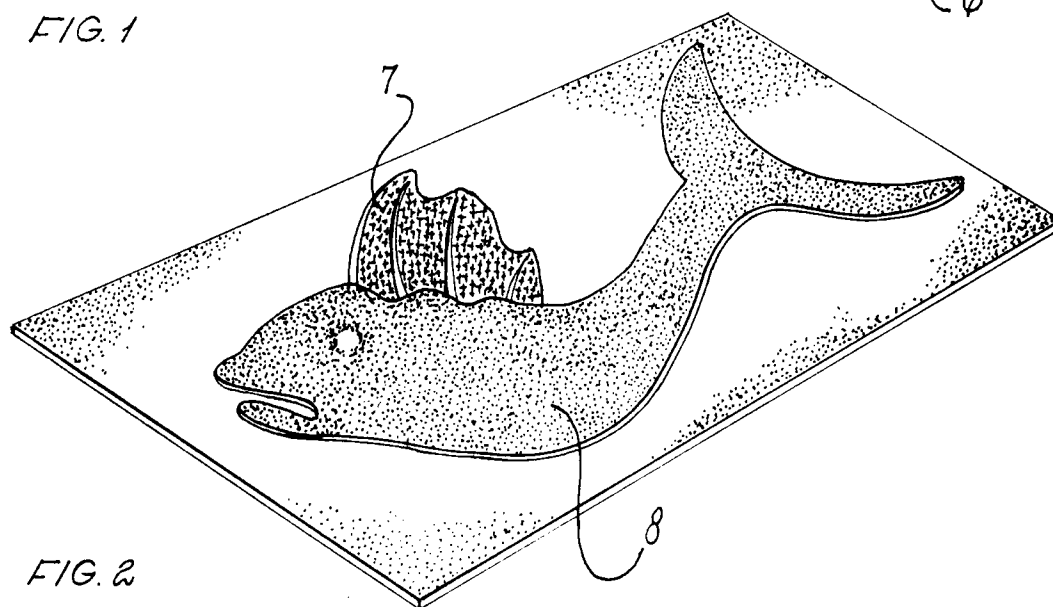


FIG. 2

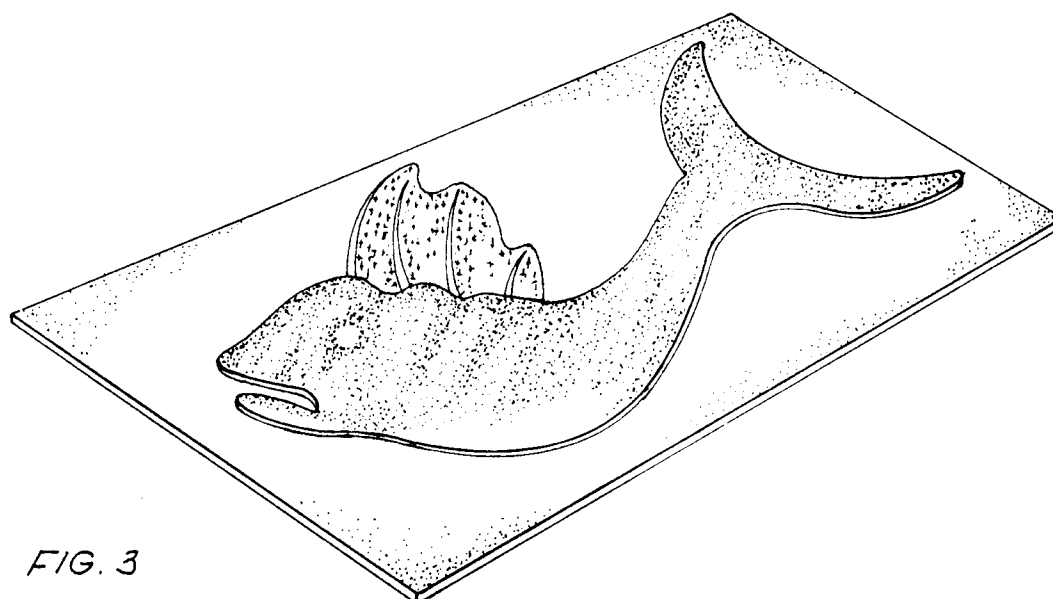


FIG. 3