

Title (en)

LEAK RESISTANT SEAMED STRUCTURE, METHOD OF FORMING SAME, AND HEAT PROCESSING DEVICE FOR SAME

Title (de)

LECKBESTÄNDIGE GENÄHTE STRUKTUR, VERFAHREN ZU DEREN HERSTELLUNG UND WÄRMEBEHANDLUNGSVORRICHTUNG DAFÜR

Title (fr)

STRUCTURE COUSUE RESISTANTE AUX FUITES, SON PROCEDE DE CREATION ET SON DISPOSITIF DE TRAITEMENT THERMIQUE

Publication

**EP 0949060 A4 20040825 (EN)**

Application

**EP 96938514 A 19961120**

Priority

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- JP 11275096 A 19960507

Abstract (en)

[origin: EP0949060A1] A seamed structure formed with seams which are soak- and leak-resistant to be suitable for three-dimensionally shaped, processed products such as shoes and the like, and a method of forming the same. The seamed structure has a feature in that a face material and a back material are seamed along seam lines through a hot melt adhesive resin layer, sewing needle holes defining the seam lines are filled with a part of a resin of the hot melt adhesive resin layer, and the face material is water-proof. The seamed structure can be prepared by a method which includes the following processes: (A) a process of preparing a precursor seamed layer structure by sewing the water-proof face material and the back material at least along the seam lines with a specified hot melt adhesive resin sheet between them; (B) while pressing the seamed layer structure by means of surfaces of a specified pressure plate body, applying sufficient high-frequency voltage to melt the hot melt adhesive resin sheet, thus fluidizing only the hot melt adhesive resin sheet and having a part of the resin sheet enter and fill into the sewing needle holes which constitute the seam lines. An embodiment of a method of forming the seamed structure is disclosed together with a high-frequency heating processing device, which is suitable for processing of shoes. <IMAGE>

IPC 1-7

**B29D 31/50**; **A43B 9/02**; **A43B 9/20**; **A45C 13/00**; **A41D 27/24**

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Citation (search report)

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