

Title (en)  
CUSHION STRUCTURE

Title (de)  
KISSENSTRUKTUR

Title (fr)  
STRUCTURE MATELASSEE

Publication  
**EP 1388310 A4 20040811 (EN)**

Application  
**EP 02769594 A 20020514**

Priority  
• JP 0204653 W 20020514  
• JP 2001145896 A 20010516

Abstract (en)  
[origin: EP1388310A1] A cushioning structure effective to alleviate a blood stream trouble and loads on muscles and to prevent an outbreak of trouble caused by them such as economy-class syndrome and the like is provided. The structure includes an upper elastic member 11 composed of a three-dimensional net member formed by connecting a pair of ground knitted fabrics disposed apart from each other using connecting yarn, and a spring constant in the range of initial load during a pressurizing process is set in the range of 0.1 to 20 N/mm and, at the same time, during a restoring process, a spring constant after restoring to an amount of displacement of 20 mm or less, at the latest, to 2 mm, is set to be lower than the spring constant in the range of initial load during the aforementioned pressurizing process. As a result, when a person comes into contact with a cushioning member by a sitting movement or a standing movement, temporal set in fatigue (stroke) of about several millimeters to about ten and several millimeters is created, thereby improving a feeling of fitting (compatibility) which makes a person feel comfortable, and effectively alleviate a blood stream trouble and loads on muscles. <IMAGE>

IPC 1-7  
**A47C 27/12; A47C 31/02**

IPC 8 full level  
**A47C 7/28** (2006.01); **A47C 7/00** (2006.01); **A47C 7/35** (2006.01); **A47C 27/12** (2006.01); **B60N 2/90** (2018.01); **B68G 11/02** (2006.01); **D04B 21/14** (2006.01)

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Citation (search report)  
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• [A] DE 4119173 A1 19920102 - PARABEAM IND & HANDELS BV [NL]  
• [A] GB 285986 A 19280224 - SIEGMUND SOKAL  
• See references of WO 02091884A1

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