

Title (en)

CLOTH EXHIBITING ACOUSTIC ABSORPTION

Title (de)

STOFF MIT SCHALLDÄMPFUNG

Title (fr)

TISSU PRÉSENTANT UNE ABSORPTION ACOUSTIQUE

Publication

**EP 1865096 A4 20120815 (EN)**

Application

**EP 06730894 A 20060331**

Priority

- JP 2006306946 W 20060331
- JP 2005105255 A 20050331

Abstract (en)

[origin: EP1865096A1] In order to provide a fabric that is lightweight and having sufficient sound-absorption performance, a sound absorbing fabric is three-dimensional and formed of a pair of base fabrics interconnected by connecting yarns; a sound-entrance base fabric has openings (4) in a mesh-work arrangement and non-opening parts; such non-opening part (5) is formed in a dome shape having a curvature (1/R) of 0.1 to 0.7 when radius of the curvature is represented as "R" mm; thickness dimension of the non-opening part (5) from its peak to bottom fringe is 1.5 to 5.0 mm; "DV" value obtained by formula [1] below is 5 to 120; and inlay yarns (6) are knit-wise attached on inner face of non-sound-entrance base fabric (2). DV =  $4.2 \times A \times W \times c^1 / c A$ : thickness dimension (mm) of the non-opening part; W: course-direction-wise dimension (mm) of the non-opening part; c': number of loops per one repeat in wale direction, on the non-opening part; c: course density (number of courses/inch) at completion, of the sound absorbing fabric.

IPC 8 full level

**D04B 21/14** (2006.01)

CPC (source: EP)

**D04B 21/20** (2013.01); **D10B 2403/0223** (2013.01)

Citation (search report)

- [A] US 2003101776 A1 20030605 - SHIRASAKI FUMIO [JP], et al
- See references of WO 2006106974A1

Cited by

EP4350062A4

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 06730894 A 20060331; CN 200680001666 A 20060331; JP 2006306946 W 20060331; JP 2007511206 A 20060331**