

Title (en)

Absorption member of mineral wool for acoustic insulation in an exhaust muffler, part therefor, its use, and method for producing it

Title (de)

Absorptionselement aus Mineralwolle für Geräuschkämpfung in einem Auspuffschalldämpfer, Bestandteil dafür, seine Verwendung und Verfahren zur Herstellung

Title (fr)

Élément d'absorption de laine minérale pour isolation acoustique dans un silencieux d'échappement, pièce pour celui-ci, son utilisation et son procédé de fabrication

Publication

**EP 0736674 B1 20000322 (EN)**

Application

**EP 96105287 A 19960402**

Priority

DE 19512438 A 19950403

Abstract (en)

[origin: EP0736674A1] An absorption member (40) is formed as a board-type shaped article, particularly a punched member, which is made up of bound mineral wool and comprises at least one recess (46) for passage of an inner pipe (22) of a muffler (2). For the case that it is not possible to slip it onto the inner pipe (22) in an axial direction, a parting slit (47) is introduced at the periphery of the recess (46) at which the recess (46) may be bent open to receive the inner pipe. It was surprisingly found that the quite considerable deformation required for this purpose nevertheless does not result in disadvantageous destructions of the material structure, apparently because the deformation distributes more or less homogeneously over the entire inner periphery of the recess (46), whereby great deformation paths may be obtained at low stress peaks. The board-type design of the absorption members comprising opposite parallel major surfaces (52) as well as its design as a punched member further contribute to good, non-destructive deformability, as its formation from a mineral wool board as a punched member ensures the overwhelming majority of fibers being oriented transversely with respect to the bending axis and thus counteracts gaping fissures. It is thereby sufficiently ensured that following its closing around the inner pipe (22), a resilient return movement of the material takes place whereby the parting slit is closed, such that any subsequent work for entirely filling the inner cavity of the muffler (2) with mineral wool is avoided. <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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