

Title (en)  
SOUND DEADENING AND STRUCTURAL REINFORCEMENT COMPOSITIONS AND METHODS OF USING THE SAME

Title (de)  
SCHALLDÄMMENDE UND STRUKTURELLE VERSTÄRKUNGSZUSAMMENSETZUNGEN SOWIE VERFAHREN ZU DEREN VERWENDUNG

Title (fr)  
COMPOSITIONS D'ATTENUATION SONORE ET DE RENFORT STRUCTUREL ET PROCEDES D'UTILISATION DE CES COMPOSITIONS

Publication  
**EP 1287069 A4 20040929 (EN)**

Application  
**EP 01933339 A 20010515**

Priority  

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Abstract (en)  
[origin: WO0188033A1] Expandable sealant and baffle compositions and methods of forming and using such compositions are provided wherein the compositions comprise a first thermoplastic resin, an epoxy resin, preferably a second thermoplastic resin different from the first thermoplastic resin, and optionally a compound selected from the group consisting of pigments, blowing agents, catalysts, curing agents, reinforcers, and mixtures thereof. The resulting compositions are formed as self-sustaining bodies which can be heat-expanded into a lightweight, high strength product for sealing hollow structural members of vehicles, substantially decreasing the noise which travels along the length of those members as well as strengthening those members with minimal increases in their weights. In a preferred embodiment, the first thermoplastic resin is an SBS block copolymer, the epoxy resin is a bisphenol A-based liquid epoxy resin, the second thermoplastic resin is a polystyrene, and the reinforcer is hydrated amorphous silica. The compositions can be formed into free-standing, self-sustaining parts or into U-shaped members supported on lattice-type nylon supports.

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IPC 8 full level  
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Citation (search report)  

- [PX] WO 0027920 A1 20000518 - SIKA CORP [US]
- [A] EP 0320538 A1 19890621 - SHELL INT RESEARCH [NL]
- [A] EP 0500009 A1 19920826 - NIPPON ZEON CO [JP]
- [A] DATABASE WPI Section Ch Week 199420, Derwent World Patents Index; Class A21, AN 1994-161552, XP002291118
- See references of WO 0188033A1

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