

Title (en)  
ACTIVE/PASSIVE DISTRIBUTED ABSORBER FOR VIBRATION AND SOUND RADIATION CONTROL

Title (de)  
AKTIV/PASSIV VERTEILTER DÄMPFER ZUR STEUERUNG VON SCHWINGUNGEN UND SCHALLABSTRAHLUNG

Title (fr)  
ABSORBEUR REPARTI ACTIF/PASSIF DE VIBRATIONS ET D'EMISSIONS SONORES

Publication  
**EP 1774510 A4 20100120 (EN)**

Application  
**EP 05775821 A 20050729**

Priority  
• US 2005026817 W 20050729  
• US 59240604 P 20040802

Abstract (en)  
[origin: WO2006020416A2] The active/passive absorber for extended vibration and sound radiation control includes principally two layers. The first layer has a low stiffness per unit area which allows motion in the direction perpendicular to its main plane. The second layer is principally a mass layer. These two combined layers have a frequency of resonance close to one of the main structure. The dynamic behavior of the coupled system makes the active/passive absorber a passive absorber; however, the first layer can be electrically actuated to induce motion in the direction perpendicular to its main plane. This addition property induces and/or changes the motion of the mass layer and therefore improves the dynamic properties of the active/passive absorber system. The active/passive absorber can have multiple mass layers and multiple elastic layers stacked one on top of the other. In addition, the mass layers can be continuous or discretized, and have varying thicknesses and shapes for sections and/or segments in the mass layer.

IPC 8 full level  
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CPC (source: EP KR US)  
**E04B 1/84** (2013.01 - KR); **F16F 1/3737** (2013.01 - EP); **F16F 7/104** (2013.01 - EP); **F16F 9/306** (2013.01 - EP US); **F16F 15/00** (2013.01 - KR); **G10K 2210/1291** (2013.01 - EP); **G10K 2210/3224** (2013.01 - EP)

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**WO 2006020416 A2 20060223; WO 2006020416 A3 20060601**; AU 2005274088 A1 20060223; CN 101036245 A 20070912; EP 1774510 A2 20070418; EP 1774510 A4 20100120; JP 2008508493 A 20080321; JP 5070527 B2 20121114; KR 20070044478 A 20070427

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