

Title (en)  
ATTENUATOR FOR AIR-CONDITIONING DUCT AND METHOD OF MANUFACTURING THE SAME

Title (de)  
DÄMPFER FÜR KLIMAAANLAGENKANAL UND FERTIGUNGSVERFAHREN FÜR EINEN DÄMPFER

Title (fr)  
ATTÉNUATEUR POUR LE CONDUIT D'AIR CONDITIONNÉ ET LE PROCÉDÉ DE SA PRODUCTION

Publication  
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Application  
**EP 22179396 A 20220616**

Priority  
FI 20215755 A 20210624

Abstract (en)  
[origin: EP4109008A1] The application refers to an attenuator (102) to be installed in an air-conditioning duct (300) according to one embodiment, which attenuator comprises a cylindrical frame (104), flow openings (114) in a direction of a mantle (106) of the frame and at least one adjusting plug (116). The frame is manufactured from a porous, sound-absorbing, flexible material so that the mantle of the installed attenuator presses against an inner surface (312) of the air-conditioning duct. The cross-sectional shape and dimensions of the at least one adjusting plug correspond to a corresponding flow opening (114) so that the at least one adjusting plug can be fitted into the corresponding flow opening in order to adjust the amount of air flow in the air-conditioning duct. The angle (PV) between a surface (PI) formed by a supply air end (108) of the attenuator and the mantle and an angle (TV) between a surface (PI) formed by an exhaust air end (110) of the attenuator and the mantle are sharp angles (PV, TV) achieving a narrowing (KA) of a middle part of the frame, where a diameter (VH) of a cross-section of the attenuator is smaller than diameters (PH) of the surfaces (PI) formed by the supply air end and exhaust air end (108, 1109) in order to improve a pressing of the mantle against the inner surface of the air-conditioning duct.

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