



SOUND ABSORBING MECHANISM USING A POROUS MATERIAL

ABSTRACT OF THE DISCLOSURE

A sound absorbing mechanism using a porous material has a sound absorbing plate of a thin plate porous material made by partially heating for welding plastic particles and a supporting member for supporting the sound absorbing plate and forming a back air space. More than one pair of resonators having a separated back air space in the aforementioned back air space are fixed to the sound absorbing plate, and the resonators are disposed to be opposed to a sound insulator with the supporting member between. Plural reflecting members or increased sound absorbers may be disposed to be opposed to the surface of the sound absorbing plate opposite to the surface equipped with the resonators, or a perforated protecting plate fixing the plural reflecting members or the increased sound absorbers thereon are may be equipped. The sound absorbing mechanism has a superior sound absorption characteristic from lower frequencies to higher frequencies.

(Figure 1)

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