

Title (en)  
ELECTRET STRUCTURE

Title (de)  
ELEKTRETSTRUKTUR

Title (fr)  
STRUCTURE ÉLECTRET

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Application  
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Abstract (en)  
[origin: WO2015055336A1] According to the invention, an electret structure (1) is proposed which comprises an electrically conductive substrate (10), a first electret layer (30) and a porous dielectric layer (20), which is arranged between the substrate (10) and the first electret layer (30). The electrically conductive substrate (10) in this case preferably forms an electrode of the electret structure (1) according to the invention. The invention is based on the concept of using the porous dielectric layer (20) to separate the charged electret layer (30) from the electrode (10). As a result, the migration of electrical charges (50) out of the electret layer (30) towards the rear electrode (10) is impeded. Likewise, the migration of oppositely charged charge carriers (55) out of the rear electrode (10) into the electret layer (30) is impeded. The charge stability of an electret structure (10) according to the invention in comparison with conventional add-ons without a porous dielectric layer (20) between the electret layer (30) and the rear electrode (10) is thus markedly increased.

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