

Title (en)
THIN ELECTRET LAYER AND CORRESPONDING PRODUCTION METHOD

Title (de)
DÜNNE ELEKTRETSCHICHT UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
MINCE COUCHE D'ELECTRET ET SON PROCEDE DE PRODUCTION

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Application
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Abstract (en)
[origin: WO9959172A1] Thin electret layer with a layer thickness of less than 200 μm made of polymers containing fluorine. The mean chain length of the polymer chain contained in the layer produced by evaporation, sputtering, ablation, blowing or dispersion using a solid starting material made of polymers containing fluorine is at least half the length of the chains in the starting material and the cross-linking degree of the polymer chains contained in the layer is at the most twice that of the cross-linking degree in the starting material. In order to produce said electret layer, a layer made of polymers containing fluorine is applied on a substrate by means of pulsed laser deposition. The wave length of the laser beams used is between 100 nm and 20 μm and pulse duration is between 10 fs and 1 ms.

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IPC 8 full level
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