

Title (en)  
A CAPACITIVE TRANSDUCER AND A METHOD FOR MANUFACTURING A TRANSDUCER

Title (de)  
KAPAZITIVER WANDLER UND VERFAHREN ZUR HERSTELLUNG DES WANDLERS

Title (fr)  
TRANSDUCTEUR CAPACITIF ET PROCÉDÉ DE PRODUCTION D'UN TRANSDUCTEUR

Publication  
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Application  
**EP 13709751 A 20130213**

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Abstract (en)  
[origin: WO2013120494A1] A capacitive transducer (1) and a method of manufacturing a capacitive transducer (1) are disclosed. The capacitive transducer (1) comprises a polymer film (2) having a first surface and a second surface, a first electrically conductive layer (3) arranged on the first surface of the polymer film (2), and a second electrically conductive layer (3) arranged on the second surface of the polymer film (2). The polymer film (2) is at least partly made from a material having a molecular weight which is at least 21,000 g/mol. The inventors have surprisingly found that silicone polymer materials with high molecular weights, such as liquid silicone rubbers (LSR) or high temperature vulcanizing (HTV) elastomers, have high electrical breakdown strengths, even though technical data sheets from manufacturers state almost identical electrical breakdown strengths similar to that of RTV-2 elastomers. Using such materials in capacitive transducers therefore allows high electrical fields to be applied to the transducer without risking electrical breakdown. Thereby increased performance is exhibited by the transducer.

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