

Title (en)  
SPEAKER AND FILM FOR USE IN SPEAKER DIAPHRAGM

Title (de)  
LAUTSPRECHER UND FOLIE ZUR VERWENDUNG IN DER LAUTSPRECHERMEMBRAN

Title (fr)  
HAUT-PARLEUR ET FILM POUR UTILISATION DANS UNE MEMBRANE DE HAUT-PARLEUR

Publication  
**EP 3086570 B1 20190904 (EN)**

Application  
**EP 15165028 A 20150424**

Priority  
EP 15165028 A 20150424

Abstract (en)  
[origin: EP3086570A1] The invention pertains to a speaker comprising a magnet, a voice coil, and a diaphragm, wherein the diaphragm comprises tapes of ultra-high molecular weight polyethylene, the tapes having an uniplanar orientation parameter of at least 3. The invention also pertains to the use of tapes of ultra-high molecular weight polyethylene, the tapes having an uniplanar orientation parameter of at least 3, in a diaphragm of a speaker comprising a magnet, a voice coil, and a diaphragm. The invention further pertains to a method of manufacturing a diaphragm suitable for use in a speaker wherein layers comprising tapes of ultra-high molecular weight polyethylene, the tapes having an uniplanar orientation parameter of at least 3, are shaped by placing the layers in a mold suitable to obtain a diaphragm shape, and heating the material under such conditions that a molded shape is obtained, but at a temperature which is below the melting temperature of the UHMWPE tapes.

IPC 8 full level  
**H04R 7/02** (2006.01); **H04R 31/00** (2006.01)

CPC (source: EP)  
**H04R 7/02** (2013.01); **H04R 31/003** (2013.01)

Cited by  
CN111131971A; CN110351634A; US2019306627A1; US11039252B2; WO2023034730A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**EP 3086570 A1 20161026; EP 3086570 B1 20190904**

DOCDB simple family (application)  
**EP 15165028 A 20150424**