

Title (en)  
ULTRASOUND SENSOR

Title (de)  
ULTRASCHALLSENSOR

Title (fr)  
CAPTEUR À ULTRASONS

Publication  
**EP 2805321 A1 20141126 (DE)**

Application  
**EP 12797803 A 20121121**

Priority  
• DE 102012200639 A 20120117  
• EP 2012073216 W 20121121

Abstract (en)  
[origin: WO2013107542A1] The invention relates to an ultrasound sensor for sending and/or receiving ultrasound signals, comprising a diaphragm cup (3) having a transducer (11) and a housing (7), wherein the diaphragm cup (3) is releasably connected to the housing (7), a decoupling ring (13) is accommodated between the membrane cup (3) and the housing (7), and the membrane cup (3) is filled with a filling material (15). The decoupling ring (13) comprises a lip (27) that is designed in such a way that a gap (31) is formed between the lip (27) and the housing inner wall and the filling material (15) is accommodated in a space at the decoupling ring (13), which space is enclosed by the membrane cup (3) and the lip (27). The invention further relates to a use of the ultrasound sensor.

IPC 8 full level  
**G10K 9/22** (2006.01)

CPC (source: EP)  
**G10K 9/22** (2013.01)

Citation (search report)  
See references of WO 2013107542A1

Cited by  
WO2022122435A1

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)  
**DE 102012200639 A1 20130718**; CN 104040619 A 20140910; CN 104040619 B 20170322; EP 2805321 A1 20141126; EP 2805321 B1 20160203; WO 2013107542 A1 20130725

DOCDB simple family (application)  
**DE 102012200639 A 20120117**; CN 201280067004 A 20121121; EP 12797803 A 20121121; EP 2012073216 W 20121121