

Title (en)

ULTRASONIC SENSOR

Publication

EP 0227985 B1 19910306 (DE)

Application

EP 86117065 A 19861208

Priority

DE 3545382 A 19851220

Abstract (en)

[origin: US4734611A] The invention concerns an ultrasonic sensor (24) in which a polymer foil (4) supported in its peripheral area is piezoelectrically activated at least in a partial section (42). The partial section (42) is electrically coupled to electrodes (8). According to the invention, the electrodes (8), which produce an electrical signal in cooperation with this partial section (42) in response to an ultrasonic wave and are spatially separated from the piezoelectrically active section (42). Because of this feature, the ultrasonic sensor (24) can be used also for measuring ultrasonic shock waves with a high pressure amplitude, since an electrically conductive layer for receiving the electrical signal located on the flat sides of the polymer foil (4) in the piezoelectrically active section (42), is no longer needed.

IPC 1-7

H04R 1/44; H04R 17/00

IPC 8 full level

H04R 1/44 (2006.01); **B06B 1/06** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP US)

B06B 1/0688 (2013.01 - EP US); **Y10S 310/80** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

EP 0227985 A2 19870708; EP 0227985 A3 19871021; EP 0227985 B1 19910306; DE 3677921 D1 19910411; JP 2591737 B2 19970319;
JP S62154900 A 19870709; US 4734611 A 19880329

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EP 86117065 A 19861208; DE 3677921 T 19861208; JP 30514686 A 19861219; US 93784086 A 19861204