

## Abstract

## ACCELERATION SENSOR

1 An acceleration sensor comprising: an acceleration detecting portion (32)  
comprising a piezoelectric element (31) having electrodes (31a, 31b) on  
both its surfaces and outputting a signal corresponding to acceleration ap-  
plied and a supporting base for supporting said piezoelectric element (31).  
5 said acceleration detecting portion (32) being provided with a pair of de-  
tecting portions (34a, 34b) arranged so as to be brought into contact with  
said piezoelectric element (31) and spaced apart from each other by a pre-  
determined distance; signal processing means (36) electrically connected  
to one of the electrodes (31b) of said piezoelectric element (31) and for pro-  
10 cessing the electric signal outputted from the piezoelectric element (31);  
and signal outputting means (35) electrically connected to one (34a) of said  
pair of detecting portions (34a, 34b) so as to cause a predetermined current  
to flow between said detecting portions and connected to said signal pro-  
cessing means (36) so as to output to the signal processing means (36) a  
15 state signal representing the state of the acceleration detecting portion  
(32); said signal outputting means (35) outputting said state signal in con-  
formity with the variation of the current flowing between the detecting por-  
tions (34a, 34b).

20 (Fig. 7)

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