

Title (en)  
ELECTROPNEUMATIC SIGNAL CONVERTER

Publication  
**EP 0191011 B1 19880608 (DE)**

Application  
**EP 86890017 A 19860203**

Priority  
AT 37185 A 19850208

Abstract (en)  
[origin: US4625139A] An electro-pneumatic signal converter is provided with a piezo-electric bending element (3) disposed in a sealed transmitter casing (1) from which a signal output (4) issues. It controls a pneumatic signal transmitter which consists of an air inlet seating (5) and an air outlet seating (6) provided opposite each other in the transmitter casing (1). The piezo-electric bending element (3) is pretensioned against the air inlet seating (5) by a spring. In order to improve its retention and guiding, the piezo-electric bending element (3) is disposed in a chamber (2) which closely surrounds it in the transmitter casing (1), in which support zones (14, 16) spaced-apart in the axial direction are provided for the bending element (3), and in addition the piezo-electric bending element (3) is retained and urged against the support zones (14, 16) by a guide spring (7) fixed in the transmitter casing (1).

IPC 1-7  
**F15B 5/00**

IPC 8 full level  
**F15B 5/00** (2006.01); **G01D 5/42** (2006.01); **H01L 41/00** (2013.01); **H02N 2/04** (2006.01)

CPC (source: EP US)  
**F15B 5/003** (2013.01 - EP US)

Cited by  
DE102007033529A1; DE102007034049B3; DE102007034048B3; EP0398862A3; AT398331B; EP0565510A3; US5343894A; EP0915277A2; DE202008001289U1; US9155871B2; US8220491B2; WO2009012833A1; EP2017511A1

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