

Title (en)

An improved electro-acoustic transducer element.

Title (de)

Verbessertes elektro-akustisches Wandler-Element.

Title (fr)

Élément transducteur électro-acoustique amélioré.

Publication

**EP 0015886 A1 19800917 (EN)**

Application

**EP 80850028 A 19800312**

Priority

- JP 2885079 A 19790313
- JP 3550479 A 19790328

Abstract (en)

An electro-acoustic transducer element includes a polymer, preferably polyvinylidene fluoride, piezoelectric film of an acoustic impedance  $Z_0$  and at least one, preferably polymeric, additional layer of like acoustic impedance  $Z$  coupled to one side surface of the film, either directly or indirectly. Adequate adjustment in thickness of the additional layer enables free change in frequency characteristics of its acoustic effect without any change in dimensions of the polymer piezoelectric film.

IPC 1-7

**H04R 17/00**; **G10K 11/02**

IPC 8 full level

**G10K 11/02** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP)

**G10K 11/02** (2013.01); **H04R 17/005** (2013.01)

Citation (search report)

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- US 3663842 A 19720516 - MILLER DARROW L
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- ELECTRONICS LETTERS, Vol. 12, No. 16, 5th August 1976, pages 393, 394 London, G.B. L. BUI et al.: "Experimental Broadband Ultrasonic Transducers Using PVF2 Piezoelectric Film" \* Page 393, left-hand column, paragraph 2 - page 394, right-hand column, line 8; figures \*

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