

Title (en)

AUDIO DEVICES HAVING ELECTROACTIVE POLYMER ACTUATORS

Title (de)

AUDIOVORRICHTUNGEN MIT ELEKTROAKTIVEN POLYMERISCHEN AKTUATOREN

Title (fr)

DISPOSITIFS AUDIO AYANT DES ACTIONNEURS EN POLYMÈRE ÉLECTROACTIF

Publication

EP 2721839 A4 20150107 (EN)

Application

EP 12800526 A 20120224

Priority

- US 201161497556 P 20110616
- US 201161564437 P 20111129
- US 2012026421 W 20120224

Abstract (en)

[origin: WO2012173669A2] Sensory enhanced audio devices containing an electroactive polymer module are disclosed. The electroactive polymer module may be located in, for example, an ear cup of a headphone. The module includes an electroactive polymer actuator array having at least one elastomeric dielectric element disposed between first and second electrodes. A tray may be configured to receive the electroactive polymer actuator array and a mass coupled to the actuator array. A circuit is electrically coupled to the electroactive polymer actuator array. The circuit is to generate a drive signal to cause the electroactive polymer actuator array to move according to the drive signal. The drive signal is preferably in the frequency range of about 2 Hz to about 200 Hz.

IPC 8 full level

H04R 1/10 (2006.01); **H04R 1/26** (2006.01); **H04R 9/02** (2006.01); **H04R 19/02** (2006.01)

CPC (source: EP)

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Citation (search report)

- [A] WO 2010085575 A1 20100729 - ARTIFICIAL MUSCLE INC [US], et al
- [A] US 2006208609 A1 20060921 - HEIM JON [US]
- [A] JP 2008141380 A 20080619 - HYPER DRIVE CORP
- [A] LARS MYTTING: "SpeakerBuilding.com - Interview with Joachim Gerhard of Audio Physic", 29 July 1996 (1996-07-29), internet, pages 1 - 3, XP055156157, Retrieved from the Internet <URL:http://www.speakerbuilding.com/content/1039/> [retrieved on 20141202]
- See references of WO 2012173669A2

Designated contracting state (EPC)

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DOCDB simple family (application)

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