

Title (en)

Digital speaker with enhanced performance

Title (de)

Digitaler Lautsprecher mit verbesserter Leistung

Title (fr)

Haut-parleur digital a performance ameliorée

Publication

**EP 2663091 B1 20150930 (FR)**

Application

**EP 13166609 A 20130506**

Priority

FR 1254172 A 20120507

Abstract (en)

[origin: EP2663091A1] The loudspeaker has a set of membranes i.e. speaklets (4) suspended on a support (2), where the speaklets are bistable. An actuator is provided for each of the speaklets, so as to change each of the speaklets from a stable state to another stable state and vice-versa, where the actuator is one of a piezoelectric actuator or a thermal actuator. A controller is provided to control the actuator, where the controller sends a re-initialization signal to the speaklets before sending a control signal. An independent claim is also included for a method for making a loudspeaker.

IPC 8 full level

**H04R 1/00** (2006.01); **H04R 1/02** (2006.01)

CPC (source: EP US)

**H04R 1/005** (2013.01 - EP US); **H04R 1/02** (2013.01 - US); **H04R 1/406** (2013.01 - US); **H04R 17/00** (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2663091 A1 20131113**; **EP 2663091 B1 20150930**; FR 2990320 A1 20131108; FR 2990320 B1 20140606; US 2013294636 A1 20131107; US 9282385 B2 20160308

DOCDB simple family (application)

**EP 13166609 A 20130506**; FR 1254172 A 20120507; US 201313887707 A 20130506